



Alternate Source Demonstration

1st Half 2025 Sampling Event

Entergy White Bluff Plant
Coal Ash Disposal Landfill
Redfield, Jefferson County, Arkansas

July 2025

Prepared For
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Executive Summary

Entergy Arkansas, LLC (EAL) performed the most recent semiannual detection monitoring sampling (1st Half 2025) in April 2025 for Cells 1 through 4 of the coal ash disposal landfill (CADL) pursuant to the *Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule*, 40 CFR Part 257 (CCR Rule). Cells 1 through 4 of the CADL constitute the coal combustion residuals (CCR) Unit per the CCR Rule. Per 40 CFR 257.94, the samples were analyzed for the Appendix III detection monitoring parameters. Upon receipt of the laboratory analytical results, statistical analysis was performed.

In accordance with the statistical analyses, the following 13 statistically significant increases (SSI) above background concentrations were identified in three monitoring wells in Stratum I and one monitoring wells in Stratum III, based on either increasing trends at 98% confidence levels using Sen's Slope test and/or intrawell prediction limits statistical analyses:

- Calcium, sulfate and TDS (MW-106S);
- Boron, calcium, and TDS (MW-110S);
- Boron, calcium, sulfate, and TDS (MW-111S);
- Boron, calcium, and TDS (MW-112D).

The information provided in this report serves as EAL's alternate source demonstration (ASD) prepared in accordance with 40 CFR 257.94(e)(2) and successfully demonstrates that the SSIs are not due to a release from the CCR Unit to groundwater, but are due to the following:

- Natural groundwater geochemistry conditions such as pH, electrical conductivity (EC), oxidation-reduction potential (ORP) and the naturally occurrence of sulfide minerals;
- Natural variation in groundwater quality;
- Releases from historic fill or portions of the CADL closed before the effective date of the CCR Rule (October 19, 2015); and/or
- Surface water that has come into contact with on-site CCR and has migrated into the subsurface.

Therefore, based on the information provided in this ASD report, EAL will continue to conduct semiannual detection monitoring for Appendix III constituents in accordance with 40 CFR 257.94 at the certified groundwater monitoring well system (Certified Monitoring Well Network) for the CCR Unit and will continue to implement improvements to stormwater management practices at the CADL.

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Section 1

Introduction

1.1 Background

Entergy Arkansas, LLC (EAL) operates the Entergy White Bluff Plant (Plant), a coal-fired power plant, to generate electricity. The Plant is located at 1100 White Bluff Road in Redfield, Jefferson County, Arkansas as shown on Figure 1. Coal combustion residuals (CCR) are produced as part of the electrical generation operations. The Plant has been generating and disposing of CCR in a portion of the on-site coal ash disposal landfill (CADL) since it began operations in 1981. The CADL is a Class 3N non-commercial industrial landfill and operates under Arkansas Division of Environmental Quality (ADEQ) Solid Waste Permit No. 0199-S3N-R3.

The ADEQ-permitted CADL consists of approximately 153-acres at the Plant and encompasses the following three areas:

- Approximately 50-acre portion of the CADL historically used for CCR disposal from 1981 until prior to the effective date of the CCR Rule (October 19, 2015). CCR was placed into ravines. This historic fill area was covered with soil and vegetated.
- Cells 1 through 4, which are the current cells used for CCR disposal and were constructed on top of, and adjacent to, the above-noted closed CCR disposal areas prior to the effective date of the CCR Rule. Cells 1 through 4 encompass approximately 30 acres and were constructed as follows:
 - Cells 1, 2, and 3 were constructed with an 18-inch thick compacted clay bottom liner;
 - Cell 4 was constructed with a two-foot thick compacted clay bottom liner and a leachate collection system; and
- Approximately 100-acre portion of the CADL that is currently undeveloped and may be used for CCR and/or non-CCR disposal.

In addition to the current 153-acre permitted landfill, there is an approximately 25-acre area to the immediate west of Cells 1 through 4 where during the initial period of operation of the Plant, ash was placed pursuant to the permits issued at that time. This historic fill area is covered with soil and vegetated.

Cells 1 through 4 accept CCR for disposal in accordance with the federal *Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule* (CCR Rule), effective October 19, 2015, and subsequent Final Rules promulgated by the United States Environmental Protection Agency (USEPA). Cells 1 through 4 comprise the CCR management

unit (CCR Unit) per the CCR Rule and are the focus of this ASD. The approximate limits of Cells 1 through 4, the former disposal areas, and the undeveloped, future disposal areas within the ADEQ-permitted footprint of the CADL are shown in Figure 2.

Historical CCR management by EAL has consisted of the following activities:

- Beneficial use in local construction projects;
- Beneficial use as roadbed material at the CADL; and
- Placement into the CADL.

1.1.1 Groundwater Monitoring and Statistical Analysis

In accordance with 40 CFR 257.90 through 257.94, EAL installed a groundwater monitoring system for Cells 1 through 4 and has collected samples from the Certified Monitoring Well Network for laboratory analysis for CCR constituents and performed statistical analysis of the collected samples. EAL installed a Certified Monitoring Well Network for the CCR Unit in accordance with 40 CFR 257.90 and 257.91. The Certified Monitoring Well Network consists of 23 wells installed into two stratigraphic units as follows:

- Eight wells are installed into an upper silty and clayey sand unit (Stratum I), which are designated as “S” monitoring wells; and
- Fifteen wells are installed into a lower silty and clayey sand and clay unit (Stratum III), which are designated as “D” monitoring wells.

Pursuant to 40 CFR 257.91(f), EAL obtained certification by a qualified Arkansas-registered professional engineer (P.E.) stating that the Certified Monitoring Well Network has been designed and constructed to meet the requirements of 40 CFR 257.91 (see Groundwater Monitoring System Certification, TRC, February 26, 2018) of the CCR Rule (TRC 2018b).

As discussed above, Stratum I and Stratum III are currently being monitored pursuant to the CCR Rule. A groundwater sampling and analysis program including selection of statistical procedures to evaluate groundwater data was prepared per the CCR Rule (see Groundwater Sampling and Analysis Plan (FTN, 2017b)). Eight quarterly background CCR detection monitoring events were performed from October 2015 through June 2017 in accordance with 40 CFR 257.93(d) and 257.94(b). The eight quarterly detection monitoring background samples were analyzed for Appendix III to Part 257 – Constituents for Detection Monitoring and for Appendix IV to Part 257 – Constituents for Assessment Monitoring.

Following completion of quarterly background detection monitoring in June 2017, EAL implemented semiannual detection monitoring per 40 CFR 257.94(b) for the CCR Unit. The first semiannual detection monitoring event was performed in August 2017 (2nd Half 2017). Subsequent detection monitoring events, with associated verification sampling when appropriate, have been performed on a semiannual basis since August 2017. EAL performed the most recent semiannual detection monitoring event (1st Half 2025) in April 2025. Per the CCR Rule, the semiannual detection monitoring event samples were analyzed for Appendix III constituents.

After completion of each semiannual detection monitoring event, the Appendix III laboratory analytical data were statistically evaluated to identify potential SSIs for Appendix III constituents above background levels. In accordance with 40 CFR 257.93(f)(6), EAL obtained certification by a qualified Arkansas-registered P.E. stating that the selected statistical method is appropriate for evaluating the groundwater monitoring data for the CCR Unit (see Statistical Methods Certification, TRC, October 16, 2017).

Pursuant to 40 CFR 257.93(h), statistical analysis and re-analysis of the laboratory analytical data were performed to identify potential SSIs for the 1st Half 2025 semiannual detection monitoring event. A total of 13 SSIs were identified for four Appendix III constituents: boron, calcium, sulfate, and TDS. SSIs were identified in three Stratum I and one Stratum III monitoring wells.

1.2 Purpose

Pursuant to 40 CFR 257.94(e)(2), EAL may demonstrate that a source other than the CCR Unit caused the SSIs identified or that the SSIs resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. The purpose of this report is to provide written documentation of the successful ASD for the SSIs identified for the 1st Half 2025 semiannual detection monitoring event, pursuant to 40 CFR 257.94(e)(2) of the CCR Rule.

Section 2

Hydrogeology and Geochemistry

2.1 Site Hydrogeology

Historical subsurface investigations have identified the following three stratigraphic horizons of the Jackson Group (Kresse, et. al., 2014) and their associated hydrogeology for the CCR Unit and the CADL:

- **Stratum 1. Interbedded Clay, Silt, and Sand.**
Stratum 1 ranges from approximately 10 to 55-feet thick and consists of interbedded silty sand (SM), clayey sand (SC), silts (ML and MH), and clay (CL and CH). Occasional deposits of carbonaceous material are present throughout Stratum 1. Based on the results of in-situ slug tests, hydraulic conductivity values range from 1.3×10^{-3} to 9.15×10^{-8} cm/sec;
- **Stratum 2. Clay.**
Stratum 2 ranges from approximately 10 to 55-feet thick and consists of a very stiff clay (CH) with occasional silt and/or very fine-grained sand laminations. Occasional deposits of carbonaceous mater are present throughout Stratum 2. Based on the results of in-situ slug tests, hydraulic conductivity values range from 7.10×10^{-8} ;
- **Stratum 3. Clayey and Silty Sand.**
Stratum 3 ranges from approximately 5 to 20-feet thick and consists primarily of clayey sand (SC) and/or silty sand (SM). A poorly graded, fine-grained sand (SM) was identified in one piezometer. The upper limits of Stratum 3 were encountered at elevations of 263 to 289-feet NGVD (depths ranging from 19 to 97-feet bgs). Based on results of in-situ slug tests, hydraulic conductivity was determined to be spatially variable and ranged from 2.80×10^{-7} to 9.80×10^{-11} cm/sec; and
- **Underlying Clay.**
A clay unit underlies Stratum 3 and is described as a very dark grey clay that is highly laminated with light grey silt and very fined-grained sand. Based on results of an in-situ slug test, the vertical hydraulic conductivity was 3.7×10^{-8} cm/sec.

It was concluded that Stratum 1 was not laterally continuous across the approximately 153-acre landfill. The estimated calculated seepage velocities in Stratums 1 and 3 were as follows:

- Stratum 1: 1-1.59 feet/year; and
- Stratum 3: 0.0067 to 41.37 feet/year.

While Stratum I and Stratum III have been monitored per the CCR Rule since October 2015, it is unclear whether Stratum I and Stratum III are aquifers that are capable of providing sustainable well yields consistent with USEPA aquifer use criteria (e.g., 0.1 gallons per minute). This uncertainty is based on the following evidence:

- Stratum I is present to the west of the CADL and only present within the western portion of the ADEQ-permitted boundaries of the CADL, approximately corresponding to the boundaries of the closed portions of the CADL. The CCR Unit and Stratum I are not continuous to the east across the entire footprint of the CADL;
- In-situ hydraulic conductivities are low to very low for both Stratum I and Stratum III, indicating that sustainable well yields may not be obtainable from Stratum I and Stratum III at volumes that meet the minimum USEPA well use criteria (e.g., 0.1 gallons per minute); and
- During the quarterly and semiannual detection monitoring events performed from October 2015 through April 2025, which have been performed using the low-flow purge and sample methodology, the sampling teams have consistently documented that turbidity values are often greater than 10 Nephelometric Turbidity Units (NTU). Furthermore, wells have been pumped dry during sampling for both Stratum I and Stratum III, indicating that neither sustainable well yields nor useable drinking water are associated with Stratum I and Stratum III.

To evaluate this uncertainty, EAL began performing hydrogeologic investigations during 2019 and 2020, continuing through 2021 to evaluate both the stratigraphy and hydrogeology beneath the CCR Unit and to identify the aquifer(s) making up the uppermost aquifer system at the CCR Unit and CADL and the appropriateness of the current Certified Monitoring Well Network.

2.2 General Groundwater Quality

Regionally, groundwater quality in the Jackson Group consists of a sodium- and calcium-sulfate water type, with generally poor water quality (FTN 2014, Kresse et. al 2014). Reported water quality concentrations for select secondary drinking water contaminants compared to USEPA secondary maximum contaminant levels (MCLs) are provided in the table below.

Jackson Group Groundwater Water Quality

Constituent	Concentration Range		USEPA Secondary MCL
	Low	High	
Iron (mg/L)	0.05	19	0.3
pH (s.u.)	2.9	8.0	6.5 - 8.5
Sulfate (mg/L)	0.6	3,080	250
TDS (mg/L)	11	5,330	500

As noted in the table above, the natural range of groundwater quality within the Jackson Group, which includes both Stratum I and Stratum III, exceeds the secondary drinking water MCLs established by the USEPA for drinking water or, in the case of pH, is less than its secondary MCL. Finally, the results of historical groundwater monitoring at the Plant conducted from 1991 through 1996 showed that normal indicator parameters were masked by naturally elevated concentrations of the monitored constituents (FTN 2014, TRC 2018a).

2.3 Groundwater Geochemistry

Understanding the geochemistry of groundwater is essential to examining the groundwater monitoring data, explaining the relationships between the characteristics, and analyzing natural as well as anthropogenic impacts on groundwater systems. Source apart, geochemical processes play an important role in controlling the chemical composition of groundwater, including carbonate equilibrium, oxidation-reduction reactions and adsorption-desorption processes. Based on the site geological conditions, several groundwater parameters are discussed as follows, including boron, fluoride, sulfate, calcium, TDS and pH.

2.3.1 Boron in Groundwater

Boron is normally considered as a minor constituent in groundwater as it is generally present in low concentrations (Palmucci & Rusi, 2014). Source apart, the primary origin of boron in groundwater is the process of sorption and desorption to the mineral surfaces including rocks and soils (Ravenscroft & McArthur, 2004). The regulatory guideline values of boron in drinking water are given at 0.5 mg/L by WHO and 0.9 mg/L by USEPA in human consumption for long-term exposure (WHO, 2008; USEPA, 2008). Boron is often cited as a contamination tracer and usually occurs as a non-ionized form as H_3BO_3 in soils at $pH < 8.5$, but above this pH, it exists as an anion, $B(OH)_4^-$ (Upadhyaya et al., 2014).

The factors that may influence the boron concentration in groundwater include weathering, human activity, evaporative concentration, ion-exchange, electrical conductivity (EC), and pH. Ravenscroft & McArthur (2004) studied the mechanism of regional boron enrichment in groundwater and the results indicated that the main process that caused high boron enrichment in groundwater was the flushing by fresh groundwater other than geological setting, climate or age. The desorption of Boron from mineral surfaces could be affected by pH, ionic strength, salinity and HCO_3^-/CO_3^{2-} . Decreasing of pH will increase the dissolution of boron from the mineral surfaces. Boron adsorption favors high pH and boron desorption favors low pH on rocks, soils and organic matters (Hollis et al., 1988; Keren & Communar, 2009; Tabein et al., 2014).

A few more research studies confirmed that the presence of boron in groundwater depends on the EC (salinity), such that it increases with increasing EC. Halim et al. (2010) reported that the

increasing of Cl^- concentration contributes to increase in EC value since a strong linear correlation ($R^2 = 0.88$) between EC and Cl^- was observed. Palmucci & Rusi (2014) observed a clear correlation between the high concentrations of boron and the chloride-sodium facies, which are characterized by high saline content, negative redox potential, and low value of the $\text{SO}_4^{2-}/\text{Cl}^-$ ratio. Rodriguez-Espinosa et al. (2020) found that the Boron concentration in groundwater was related to the SO_4^{2-} and age affect.

Regarding to the Boron concentration level on the sites, the main source of Boron is more natural than anthropogenic. Therefore, the detected increasing of Boron concentration is likely due to the geochemistry condition changes, such as pH, ion exchanges, EC and salinity.

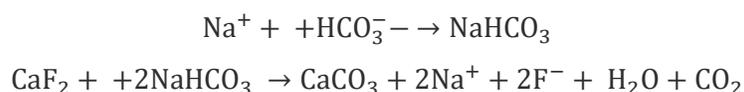
2.3.2 Fluoride in Groundwater

The common natural source of fluoride in groundwater is the dissolution of natural fluoride-bearing mineral, such as fluorspar, fluorapatite, amphiboles, hornblende, tremolite and biotite (Luo et al., 2018). The natural concentration of fluoride in groundwater depends on the geological, chemical and physical characteristics of the aquifer, the porosity and acidity of the soil and rocks, the surrounding temperature, the action of other chemical elements, depth of the aquifer and intensity of weathering (Brindha & Elango, 2011). Due to the concentration range of this site, geochemical process is the main factor controlling fluoride in groundwater.

Ion exchange, evaporation, adsorption-desorption, ion competition, mixing, salinization and anthropogenic pollution are geochemical processes that can take place and cause the occurrence of fluoride in groundwater (Luo et al., 2018). Main factors that might cause the increase of fluoride concentration in groundwater include alkaline pH, high concentration of sodium and bicarbonate, and low concentration of calcium.

Alkaline pH can increase the fluoride dissolution from mineral surfaces into groundwater. Saxena & Ahmed (2001) observed that alkaline conditions with pH ranging between 7.6 and 8.6 are favorable for dissolution of fluorite mineral from the host rocks.

Sodium bicarbonate type waters are typical of high fluoride waters. Many research studies have demonstrated positive correlations between fluoride and both bicarbonate and sodium as well as an inverse relation between fluoride and calcium. (Mondal et al., 2014; Guo et al., 2012; Chen et al., 2020). The chemical reactions for the dissolution of fluoride in the presence of high bicarbonate and sodium, and low calcium content is described as follows (Kimambo et al., 2019):



Luo et al. (2018) reported that cation exchange can increase the fluoride concentration when increasing the Na/Ca molar ratio via ion complexation, and salt effect can further increase the fluoride dissolution from mineral surfaces.

In addition, evaporation is another potential reason to increase the fluoride concentration in shallow groundwater. Evaporation could directly remove water from shallow aquifers and elevate the fluoride concentration. Evaporation could increase ion concentrations, leading to the precipitation of some major minerals, reducing the calcium concentration, and favoring the dissolution of fluoride. Anthropogenic sources may also increase the fluoride in groundwater, such as pesticide and fertilizer use, and industrial waste discharge.

2.3.3 Sulfate in Groundwater

Sulfate is ubiquitous in groundwater, with both natural and anthropogenic sources. There are many potential sources of sulfate including mineral dissolution, atmospheric deposition, and other anthropogenic sources (mining, fertilizer, synthetic detergents, industrial wastewater etc.) (Miao et al., 2012). As water moves through soil and rock formations that contain sulfate minerals, some of the sulfate dissolves into the groundwater. Minerals that contain sulfate include magnesium sulfate (Epsom salt), sodium sulfate (Glauber's salt), and calcium sulfate (gypsum). Gypsum is an important contributor to the high levels of sulphate in many aquifers of the world. Higher levels of sulfate in groundwater are common in the western part of the United States (MDH, 2008).

Sulfate is mobile in soil and inputs to soil will impact groundwater eventually. Many research studies indicated that atmospheric deposition, dissolution of gypsum, oxidation of sulfide mineral and anthropogenic inputs will contribute to sulfate. Based on the geological condition of the site, atmospheric deposition and anthropogenic activities could be the main factors (Einsiedl & Mayer, 2005; Pu et al., 2012).

2.3.4 Calcium in Groundwater

Calcium is one of the most important ionic constituents in groundwater (Razowska-jaworek, 2014). Water-rock interaction occurs when water meets rocks or minerals, limestone, marble, calcite, dolomite, gypsum, fluorite and apatite. Natural dissolution of carbonate rocks and minerals is the primary source of calcium in groundwater (Jiang et al., 2009). Calcium is an important determinant of water hardness (Ca^{2+}), while magnesium is the other hardness determinant. The most common shallow groundwater type is Ca-HCO_3 dominated and Ca(Mg)-HCO_3 dominated.

A literature review indicates the major factors that may influence the calcium concentration in groundwater include rock weathering, pH, electrical conductivity and anthropogenic activities (mining, concrete material dissolution, fertilizer etc.) (Hájek et al., 2021; Schot & Wassen, 1993; Shi et al., 2018). Based on the geological condition of the site, pH, electrical conductivity and anthropogenic activities could be the potential reasons for the calcium SSI.

2.3.5 TDS in Groundwater

Total dissolved solids represent the combined total of inorganic and organic substances contained in the groundwater, and it can be a general indicator of water quality. These solids are primarily minerals, salts, and organic matters, which may originate from sources such as weathering of minerals, urban runoff, sewage, effluent discharges, agricultural, decaying organisms, and other human activities (de-icing roads, water softer use). Common salts that contribute to TDS are sodium, chloride, calcium, magnesium, potassium, sulfates, and bicarbonates (Olumuyiwa I. Ojo, 2012).

TDS levels in groundwater is usually higher than surface water due to the longer contact time with the underlying rocks and sediments. Since many minerals are water soluble, high concentrations can accumulate over time through the constantly reoccurring process of precipitation and evaporation.

TDS is related to other water quality parameters like hardness, which may occur if the high TDS content is due to the presence of carbonates. A few research studies simulated the relationship between TDS and other groundwater parameters such as EC and salinity, using different models. Due to the complicated geological conditions, the observation was not consistent at different study sites (Atekwana et al., 2004; Banadkooki et al., 2020; Poursaeid et al., 2020).

2.3.6 pH in Groundwater

Groundwater pH is an important aspect to consider in the monitoring and management of CCR landfill sites, as changes in pH can affect the quality of groundwater and the potential for release of contaminants. The potential reasons for pH changes in groundwater are as following:

- Changes in water flow patterns. Changes in the flow patterns of groundwater can cause the mixing of different water sources with varying pH levels, resulting in an overall increase in the pH of the groundwater at the site.
- Drainage from adjacent areas. Groundwater from adjacent areas with higher pH levels may be flowing into the landfill site and raising the overall pH of the groundwater at the site.
- Changes in geochemistry condition. Geochemistry can play a role in affecting the pH of groundwater at a landfill site, such as mineral dissolution, pH buffering capacity, redox

reactions, and groundwater-rock interactions (Edmunds & Smedley, 1996; Wilkin & DiGiulio, 2010).

- 1) Mineral dissolution. Minerals present in the surrounding soil can dissolve and release basic or acidic compounds into the groundwater, affecting the pH, e.g., the dissolution of calcium carbonate can increase the pH of the groundwater by releasing carbonate ions, the dissolution and oxidation of pyrite can decrease the pH of groundwater by releasing hydrogen ions.
- 2) pH buffering capacity. The presence of minerals with a high buffering capacity in the surrounding soil can help to regulate the pH of the groundwater, preventing drastic changes in response to other factors. For example, the presence of minerals like calcite and dolomite can buffer the groundwater pH, helping to maintain a relatively stable pH even in the presence of acidic compounds.
- 3) Redox reactions. The oxidation-reduction reactions that occur in the surrounding soil can impact the pH of the groundwater. The oxidation of iron-sulfide minerals can result in the release of sulfuric acid, which can lower the pH of groundwater. The oxidation of reduced sulfur species to sulfate, which can increase the pH of groundwater (Jacks, 2017).
- 4) Groundwater-rock interactions. The interaction between groundwater and the rocks and minerals in the surrounding soil can affect the pH of the groundwater. For example, groundwater can dissolve or release basic or acidic compounds from the minerals in the rock, affecting the pH.

Section 3

Alternate Source Demonstration

Pursuant to 40 CFR 257.94(e)(2), EAL may demonstrate that a source other than the CCR Unit caused the SSI or that the SSI resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. As discussed previously, the 1st Half 2025 semiannual detection monitoring event was performed in April 2025. Statistical analysis of the 1st Half 2025 semiannual detection monitoring data was performed pursuant to 40 CFR 257.93(f) and (g) and in accordance with the Statistical Methods Certification (TRC 2017b) and the Statistical Analysis Plan (FTN 2017a). Based on either increasing trends at 98% confidence levels using Sen's Slope test and/or intrawell prediction limits statistical analyses, the following 13 SSIs were identified and summarized in Table 1:

- Calcium, sulfate and TDS (MW-106S);
- Boron, calcium, and TDS (MW-110S);
- Boron, calcium, sulfate, and TDS (MW-111S);
- Boron, calcium, and TDS (MW-112D).

Other Appendix III constituent concentrations were within their trends at 98% confidence levels using Sen's slope test and/or intrawell prediction limits in the CCR Rule groundwater monitoring system wells.

A discussion for each of the individual SSIs identified for the Stratum I and III wells and associated evidence demonstrating that the 13 SSIs were not caused by a release from the CCR Unit is provided in the subsections below.

Table 1 SSIs – April 2025 Semiannual Detection Monitoring Event

Stratum	Well	Analyte	Value (mg/L)	Intrawell Prediction Limit (mg/L)	SI by Sen's Slope test
I	106S	Calcium	38.7	23.81	Y
	106S	Sulfate	813	603.5	Y
	106S	TDS	1,260	827.1	Y
	110S	Boron	2.47	1.586	Y
	110S	Calcium	10.5	6.762	Y
	110S	TDS	483	465.2	Y
	111S	Boron	6.95	4.495	Y
	111S	Calcium	101	36.76	Y
	111S	Sulfate	775	397.5	Y
	111S	TDS	1,200	541	Y
III	112D	Boron	0.291	0.2521	Y
	112D	Calcium	43.2	22.46	Y
	112D	TDS	326	204.9	Y

3.1 Calcium at MW-106S

The calcium SSI identified at MW-106S is a result of the acidic geochemistry condition in groundwater, potential impact of CCR disposed at the CADL prior to October 19, 2015, and potential infiltration of surface water impacted by on-site CCR into the subsurface in the area of MW-106S. The following evidence supports this determination:

- Calcium was detected in MW-106S at a concentration of 38.7 mg/L in the April 2025 sample, which exceeded the intrawell prediction limit of 23.8 mg/L. Compared to the value of 41.7 mg/L in the November 2024 sample, the calcium concentration decreased approximately 7%. The Mann-Kendal statistic of 221 exceeded the critical value of 95 indicating a significant increasing trend at the 98% confidence level. As discussed in Section 2.3, pH and EC could affect calcium concentrations in groundwater. Low pH values of 3.8-4.0 were detected in the past few years, which indicates the groundwater in this area is acidic and it was related to pre-CCR Rule disposal source or natural geochemistry conditions. The acidic groundwater condition favors the dissolution of calcium from soil and mineral surfaces to water phase. The significant increasing trend of calcium from 16 mg/L in 2015 to 38.7 mg/L in 2025 could be a result of the acidic geochemistry condition. The increasing cation and anion concentrations will also lead to the increasing EC, which will affect other metals dissolution.
- Calcium concentrations in Stratum I of this site have varied from 0.755 to 118 mg/L among all monitoring wells during CCR detection monitoring. The calcium concentration of 38.7 mg/L measured at MW-106S during the 1st Half 2025 semiannual detection monitoring event stayed in the low-middle concentration range. Therefore, the calcium concentration measured at MW-106S is within the range of natural variation in groundwater quality.
- Based on review of potentiometric surface mapping, locations of closed portions of the CADL underlying the CCR Unit, and the CCR Unit relative to MW-106S, it appears that MW-106S may monitor groundwater associated with the underlying pre-CCR Rule closed portions of the CADL rather than the CCR Unit; therefore, concentrations measured in MW-106S are likely more reflective of pre-CCR Rule disposal rather than of the CCR Unit.
- Surface water that has come into contact with on-site CCR at the CCR Unit has migrated from the perimeter drainage swale for the CCR Unit due to periodic build-up of sediment within the perimeter surface water swale. When this build-up occurs, surface water flows out of the swale and over the adjoining access road and then to the area of MW-106S. This drainage swale carries surface water runoff from closed portions of the CADL as well as from the CCR Unit. This surface water ultimately migrates from the MW-106S area via surface water swales within the ADEQ-permitted CADL footprint, with ultimate discharge into the site surge pond as per EAL's NPDES permit. Based on the close proximity of this surface water to MW-106S, it appears likely that surface water infiltration may have impacted the MW-106S monitoring results.

3.2 Sulfate at MW-106S

The sulfate SSI identified at MW-106S is a result of natural geochemistry condition in soil and groundwater, potential impact of CCR disposed at the CADL prior to October 19, 2015, and potential infiltration of surface water impacted by on-site CCR into the subsurface in the area of MW-106S. The following evidence supports this determination:

- Sulfate was detected in MW-106S at a concentration of 813 mg/L in the April 2025 sample, which exceeded the intrawell prediction limit of 604 mg/L. Compared to the value of 802 mg/L in the November 2024 sample, the sulfate concentrations are consistent. The Mann-Kendal statistic of 220 exceeded the critical value of 95 indicating a significant increasing trend at the 98% confidence level. The increasing trend of sulfate was consistent with TDS. The elevated sulfate concentration in the past four years could be caused by the acidic geochemistry condition discussed above or an anthropogenic source since sulfate is mobile in soils and can get into groundwater via surface water infiltration. Another potential reason is the natural occurrence of sulfide minerals in the soil, such as pyrite. The oxidation of sulfide minerals will slowly release sulfate and hydrogen ion into groundwater, which will lead to the increasing of sulfate and decreasing of pH.
- Surface water that has come into contact with on-site CCR at the CCR Unit has migrated from the perimeter drainage swale for the CCR Unit due to periodic build-up of sediment within the perimeter surface water swale. When this build-up occurs, surface water flows out of the swale and over the adjoining access road and then to the area of MW-106S. This drainage swale carries surface water runoff from closed portions of the CADL as well as from the CCR Unit. This surface water ultimately migrates from the MW-106S area via surface water swales within the ADEQ-permitted CADL footprint, with ultimate discharge into the site surge pond as per EAL's NPDES permit. Based on the close proximity of this surface water to MW-106S, it appears likely that surface water infiltration may have impacted the MW-106S monitoring results.
- Based on review of potentiometric surface mapping and locations of closed portions of the CADL, and the CCR Unit relative to MW-106S, MW-106S may monitor groundwater associated with the pre-CCR Rule closed portions of the CADL rather than the CCR unit; therefore, concentrations measured in MW-106S may be more reflective of pre-CCR Rule disposal rather than of the CCR Unit.

3.3 TDS at MW-106S

The TDS SSI identified at MW-106S is a result of the acidic groundwater geochemistry condition, sodium sulfate source, potential impact of CCR disposed at the CADL prior to October 19, 2015, and potential infiltration of surface water impacted by on-site CCR into the subsurface in the area of MW-106S. The following evidence supports this determination:

- TDS was detected in MW-106S at a concentration of 1,260 mg/L in the April 2025 sample, which exceeded the intrawell prediction limit of 827 mg/L. The Mann-Kendal statistic of 215 exceeded the critical value of 95 indicating a significant increasing trend at the 98% confidence level. Compared to the TDS value of 1,200 mg/L in the November 2024 sample, 1,120 mg/L in the May 2024 sample, and 1,404 mg/L in November 2023 sample, the TDS concentrations are stable. As discussed in Section 2.2, the Jackson Group groundwater is sodium- and calcium-sulfate water type. Sodium could be another main contribution to the TDS exceedance with calcium and sulfate. High sodium concentration can also cause the fluoride exceedance. The acidic groundwater could be one of the potential reasons. An alternate source containing sodium sulfate should also be considered, which can be mineral dissolution, surface water flux or atmospheric deposition.
- Based on review of potentiometric surface mapping, locations of closed portions of the CADL, and the CCR Unit relative to MW-106S, MW-106S may monitor groundwater associated with the pre-CCR Rule closed portions of the CADL rather than the CCR Unit. Therefore, concentrations measured in MW-106S may be more reflective of pre-CCR Rule disposal rather than of the CCR Unit.
- Surface water that has come into contact with on-site CCR at the CCR Unit has migrated from the perimeter drainage swale for the CCR Unit due to periodic build-up of sediment within the perimeter surface water swale. When this build-up occurs, surface water flows out of the swale and over the adjoining access road and then to the area of MW-106S. This drainage swale carries surface water runoff from closed portions of the CADL as well as from the CCR Unit. This surface water ultimately migrates from the MW-106S area via surface water swales within the ADEQ-permitted CADL footprint, with ultimate discharge into the site surge pond as per EAL's NPDES permit. Based on the close proximity of this surface water to MW-106S, it appears likely that surface water infiltration may be impacting the MW-106S monitoring results.

3.4 Boron at MW-110S

The boron SSI identified at MW-110S is a result of acidic groundwater geochemistry conditions and potential impact of CCR disposed at the CADL prior to October 19, 2015. The following evidence supports this determination:

- Boron was detected in MW-110S at a concentration of 2.47 mg/L in the April 2025 sample, which exceeded the intrawell prediction limit of 1.586 mg/L. Compared to the value of 1.32 mg/L in the November 2024 sample, the boron concentration increased by 87%. The Mann-Kendal statistic of 215 exceeded the critical value of 95 indicating a significant increasing trend at the 98% confidence level. As discussed in Section 2.3, the main factors that may influence boron concentration in groundwater are pH and EC. Decreasing of pH will increase the dissolution of boron from the mineral surfaces. Boron in groundwater will increase with the increasing of EC. The historical data review shows the relatively low salts concentrations in MW-110S area, which indicates EC is not the factor causing the boron increasing trend.

Low pH values of 4.17 and 4.55 were detected in the April 2025 and November 2024, respectively. The acidic groundwater condition favors the boron dissolution from soil and mineral surface. Based on the consistent boron levels in groundwater, the significant increasing trend of boron is more likely relative to the acidic geochemistry condition other than a contamination source.

- Based on review of potentiometric surface mapping, locations of historic fill, locations of closed portions of the CADL underlying the CCR Unit, and the CCR Unit relative to MW-110S, it appears that MW-110S may monitor groundwater associated with the underlying pre-CCR Rule closed portions of the CADL rather than the CCR Unit; therefore, concentrations measured in MW-110S may be more reflective of pre-CCR Rule disposal rather than of the CCR Unit.

3.5 Calcium at MW-110S

The calcium SSI identified at MW-110S is a result of acidic geochemistry condition in groundwater, potential impact of CCR disposed at the CADL prior to October 19, 2015, and potential infiltration of surface water impacted by on-site CCR into the subsurface in the area of MW-110S. The following evidence supports this determination:

- Calcium was detected in MW-110S at a concentration of 10.5 mg/L in the April 2025 sample, which exceeded the intrawell prediction limit of 6.762 mg/L. The Mann-Kendal statistic of 100 exceeded the critical value of 95 indicating a significant increasing trend at the 98% confidence level. As discussed in Section 2.3, pH and EC could affect calcium concentrations in groundwater. Low pH values of 3.8-4.0 were detected in the past few years, which indicates the groundwater in this area is acidic and it was related to pre-CCR Rule disposal source or natural geochemistry conditions. The acidic groundwater condition favors the dissolution of calcium from soil and mineral surfaces to water phase.
- Based on review of potentiometric surface mapping, locations of closed portions of the CADL underlying the CCR Unit, and the CCR Unit relative to MW-110S, it appears that MW-110S may monitor groundwater associated with the underlying pre-CCR Rule closed portions of the CADL rather than the CCR Unit; therefore, concentrations measured in MW-110S are likely more reflective of pre-CCR Rule disposal rather than of the CCR Unit.
- Surface water that has come into contact with on-site CCR at the CCR Unit has migrated from the perimeter drainage swale for the CCR Unit due to periodic build-up of sediment within the perimeter surface water swale. When this build-up occurs, surface water flows out of the swale and over the adjoining access road and then to the area of MW-110S. This drainage swale carries surface water runoff from closed portions of the CADL as well as from the CCR Unit. This surface water ultimately migrates from the MW-110S area via surface water swales within the ADEQ-permitted CADL footprint, with ultimate discharge into the site surge pond as per EAL's NPDES permit. Based on the close proximity of this surface water to MW-

110S, it appears likely that surface water infiltration may have impacted the MW-110S monitoring results.

3.6 TDS at MW-110S

The TDS SSI identified at MW-110S is a result of the acidic groundwater geochemistry conditions potential impact of CCR disposed at the CADL prior to October 19, 2015, and potential infiltration of surface water impacted by on-site CCR into the subsurface in the area of MW-110S. The following evidence supports this determination:

- TDS was detected in MW-110S at a concentration of 483 mg/L in the April 2025 sample, which exceeded the intrawell prediction limit of 465.2 mg/L. The Mann-Kendal statistic of 102 exceeded the critical value of 95 indicating a significant increasing trend at the 98% confidence level. Compared to the TDS value of 313 mg/L in the November 2024, the TDS concentration increased by 54%. As discussed in Section 2.2, the Jackson Group groundwater is sodium- and calcium-sulfate water type. Sodium could be another main contribution to the TDS exceedance with calcium and sulfate. High sodium concentration can also cause the fluoride exceedance. The acidic groundwater could be one of the potential reasons. An alternate source containing sodium sulfate should also be considered, which can be mineral dissolution, surface water flux or atmospheric deposition.
- Based on review of potentiometric surface mapping, locations of closed portions of the CADL, and the CCR Unit relative to MW-110S, MW-110S may monitor groundwater associated with the pre-CCR Rule closed portions of the CADL rather than the CCR Unit. Therefore, concentrations measured in MW-110S may be more reflective of pre-CCR Rule disposal rather than of the CCR Unit.
- Surface water that has come into contact with on-site CCR at the CCR Unit has migrated from the perimeter drainage swale for the CCR Unit due to periodic build-up of sediment within the perimeter surface water swale. When this build-up occurs, surface water flows out of the swale and over the adjoining access road and then to the area of MW-111S. This drainage swale carries surface water runoff from closed portions of the CADL as well as from the CCR Unit. This surface water ultimately migrates from the MW-110S area via surface water swales within the ADEQ-permitted CADL footprint, with ultimate discharge into the site surge pond as per EAL's NPDES permit. Based on the close proximity of this surface water to MW-110S, it appears likely that surface water infiltration may have impacted the MW-110S monitoring results.

3.7 Boron at MW-111S

The boron SSI identified at MW-111S is a result of natural groundwater geochemistry conditions with low pH and high EC, potential impact of CCR disposed at the CADL prior to October 19,

2015, and potential infiltration of surface water impacted by on-site CCR into the subsurface in the area of MW-111S. The following evidence supports this determination:

- Boron was detected in MW-111S at a concentration of 6.95 mg/L in the April 2025 sample, which exceeded the intrawell prediction limit of 4.495 mg/L. Compared to the value of 7.1 mg/L in the November 2024 sample, the boron concentration decreased by 2%. The Mann-Kendal statistic of 227 exceeded the critical value of 95 indicating a significant increasing trend at the 98% confidence level. As discussed in Section 2.3, the main factors that may influence boron concentration in groundwater are pH and EC. Decreasing of pH will increase the dissolution of boron from the mineral surfaces. Boron in groundwater will increase with the increasing of EC. A low pH value of 4.01 was detected in the May 2025 sample and the pH of groundwater in the area of MW-111S stayed in a steady range of 3.6 to 4.5 in the past five years. The acidic groundwater condition favors the boron dissolution from soil and mineral surface. The increasing TDS and sulfate in MW-111S demonstrates that the groundwater in this area has relatively high EC, which will cause the increasing of boron concentration in groundwater. Based on the consistent boron levels, the significant increasing trend of boron is more likely relative to the geochemistry conditions with low pH and high EC other than a contamination source.
- Based on review of potentiometric surface mapping and locations of closed portions of the CADL, and the CCR Unit relative to MW-111S, MW-111S may monitor groundwater associated with the pre-CCR Rule closed portions of the CADL rather than the CCR Unit. Therefore, concentrations measured in MW-111S may be more reflective of pre-CCR Rule disposal rather than of the CCR Unit.
- Surface water that has come into contact with on-site CCR at the CCR Unit has migrated from the perimeter drainage swale for the CCR Unit due to periodic build-up of sediment within the perimeter surface water swale. When this build-up occurs, surface water flows out of the swale and over the adjoining access road and then to the area of MW-111S. This drainage swale carries surface water runoff from closed portions of the CADL as well as from the CCR Unit. This surface water ultimately migrates from the MW-111S area via surface water swales within the ADEQ-permitted CADL footprint, with ultimate discharge into the site surge pond as per EAL's NPDES permit. Based on the close proximity of this surface water to MW-111S, it appears likely that surface water infiltration may be impacting the MW-111S monitoring results.

3.8 Calcium at MW-111S

The calcium SSI identified at MW-111S is a result of natural groundwater geochemistry conditions with low pH and high EC, potential impact of CCR disposed at the CADL prior to October 19, 2015, and potential infiltration of surface water impacted by on-site CCR into the subsurface in the area of MW-111S. The following evidence supports this determination:

- Calcium was detected in MW-111S at a concentration of 101 mg/L in the April 2025 sample, which exceeded the intrawell prediction limit of 36.8 mg/L. Normality analysis of the calcium data set at MW-111S was non-normal requiring trend analysis of the data set to determine a potential significance increase. The Mann-Kendal statistic of 217 exceeded the critical value of 95 indicating a significant increasing trend at the 98% confidence level. As discussed in Section 2.3, pH and EC could affect calcium concentrations in groundwater. A low pH value of 4.01 was detected in the April 2025 and the pH of groundwater in the area of MW-111S stayed in a steady range of 3.6 to 4.5 in the past five years. The acidic condition favors the dissolution of calcium from soil and mineral surfaces to water phase. The relatively high EC in groundwater discussed above can also increase the calcium concentration. The significant increasing trend of calcium could be a result of the natural geochemistry conditions with low pH and high EC.
- Based on review of potentiometric surface mapping, locations of closed portions of the CADL, and the CCR Unit relative to MW-111S, MW-111S may monitor groundwater associated with the underlying pre-CCR Rule closed portions of the CADL rather than the CCR Unit. Therefore, concentrations measured in MW-111S may be more reflective of pre-CCR Rule disposal rather than of the CCR Unit.
- Surface water that has come into contact with on-site CCR at the CCR Unit has migrated from the perimeter drainage swale for the CCR Unit due to periodic build-up of sediment within the perimeter surface water swale. When this build-up occurs, surface water flows out of the swale and over the adjoining access road and then to the area of MW-111S. This drainage swale carries surface water runoff from closed portions of the CADL as well as from the CCR Unit. This surface water ultimately migrates from the MW-111S area via surface water swales within the ADEQ-permitted CADL footprint, with ultimate discharge into the site surge pond as per EAL's NPDES permit. Based on the close proximity of this surface water to MW-111S, it appears likely that surface water infiltration may have impacted the MW-111S monitoring results.

3.9 Sulfate at MW-111S

The sulfate SSI identified at MW-111S is a result of natural groundwater geochemistry condition of low pH and potential oxidation of sulfide minerals, potential impact of CCR disposed at the CADL prior to October 19, 2015, and potential infiltration of surface water impacted by on-site CCR into the subsurface in the area of MW-111S. The following evidence supports this determination:

- Sulfate was detected in MW-111S at a concentration of 775 mg/L in the April 2025 sample, which exceeded the intrawell prediction limit of 398 mg/L. Compared to the value of 768 mg/L in the November 2024 sample, the sulfate concentrations are consistent. The Mann-Kendal statistic of 204 exceeded the critical value of 95 indicating a significant increasing trend at the 98% confidence level. The sulfate increasing was consistent with the TDS

increasing, which indicated that more salts were dissolved into groundwater. It could be caused by the acidic geochemistry condition discussed above or an anthropogenic source since sulfate is soluble in soils and can get into groundwater via surface water infiltration. Another potential reason is the naturally occurrence of sulfide minerals in the soil, such as pyrite. The oxidation of sulfide minerals will slowly release sulfate and hydrogen ion into groundwater, which will lead to the increasing of sulfate and decreasing of pH.

- Based on review of potentiometric surface mapping and locations of closed portions of the CADL, and the CCR Unit relative to MW-111S, MW-111S may monitor groundwater associated with the pre-CCR Rule closed portions of the CADL rather than the CCR Unit; therefore, concentrations measured in MW-111S may be more reflective of pre-CCR Rule disposal rather than of the CCR Unit.
- Surface water that has come into contact with on-site CCR at the CCR Unit has migrated from the perimeter drainage swale for the CCR Unit due to periodic build-up of sediment within the perimeter surface water swale. When this build-up occurs, surface water flows out of the swale and over the adjoining access road and then to the area of MW-111S. This drainage swale carries surface water runoff from closed portions of the CADL as well as from the CCR Unit. This surface water ultimately migrates from the MW-111S area via surface water swales within the ADEQ-permitted CADL footprint, with ultimate discharge into the site surge pond as per EAL's NPDES permit. Based on the close proximity of this surface water to MW-111S, it appears likely that surface water infiltration may have impacted the MW-111S monitoring results.

3.10 TDS at MW-111S

The TDS SSI identified at MW-111S is a result of the acidic groundwater geochemistry conditions with natural occurrence of sulfide minerals, sodium sulfate source, the potential impact of CCR disposed at the CADL prior to October 19, 2015 and potential infiltration of surface water impacted by on-site CCR into the subsurface in the area of MW-111S. The following evidence supports this determination:

- TDS was detected in MW-111S at a concentration of 1,200 mg/L in the April 2025 sample, which exceeded the intrawell prediction limit of 541 mg/L. Compared to the value of 1,280 mg/L in the November 2024 sample, the TDS concentrations are consistent. The Mann-Kendal statistic of 234 exceeded the critical value of 95 indicating a significant increasing trend at the 98% confidence level. As discussed in Section 2.2, the Jackson Group groundwater is sodium- and calcium-sulfate water type. Sodium could be another main contribution to the TDS exceedance with the increasing of calcium and sulfate. High sodium concentration can also cause the fluoride exceedance. The acidic groundwater could be one of the potential reasons. An alternate source containing sodium sulfate should also be considered, which can be mineral dissolution, surface water flux or atmospheric deposition.

- Based on review of potentiometric surface mapping, locations of closed portions of the CADL, and the CCR Unit relative to MW-111S, MW-111S may monitor groundwater associated with the pre-CCR Rule closed portions of the CADL rather than the CCR Unit. Therefore, concentrations measured in MW-111S may be more reflective of pre-CCR Rule disposal rather than of the Unit.
- Surface water that has come into contact with on-site CCR at the CCR Unit has migrated from the perimeter drainage swale for the CCR Unit due to periodic build-up of sediment within the perimeter surface water swale. When this build-up occurs, surface water flows out of the swale and over the adjoining access road and then to the area of MW-111S. This drainage swale carries surface water runoff from closed portions of the CADL as well as from the CCR Unit. This surface water ultimately migrates from the MW-111S area via surface water swales within the ADEQ-permitted CADL footprint, with ultimate discharge into the site surge pond as per EAL's NPDES permit. Based on the close proximity of this surface water to MW-111S, it appears likely that surface water infiltration may have impacted the MW-111S monitoring results.

3.11 Boron at MW-112D

The boron SSI identified at MW-112D is a result of natural variation in groundwater quality and potential impact of CCR disposed at the CADL prior to October 19, 2015. The following evidence supports this determination:

- Boron was detected in MW-112D at a concentration of 0.291 mg/L in the April 2025 sample, which was consistent with 0.294 mg/L in the November 2024 sample. This concentration exceeds the intrawell prediction limit of 0.252 mg/L. The Mann-Kendal statistic of 252 exceeded the critical value of 101 indicating a significant increasing trend at the 98% confidence level. Boron concentrations measured at MW-118D (background well for Stratum III) have ranged from 0.274 to 0.355 mg/L. Therefore, the boron exceedance at MW-112D is within the range of variation in background groundwater quality and is not a potential environmental concern.
- Based on review of potentiometric surface mapping, locations of closed portions of the CADL, and the CCR Unit relative to MW-112D, MW-112D is located immediately adjacent (approximately 25 feet) to historic fill, but approximately 950 feet from the CCR Unit. Therefore, the concentrations of boron measured in MW-112D may be more reflective of pre-CCR Rule disposal rather than of the CCR Unit.
- Groundwater flow velocities are estimated to be approximately <1 ft/year to 10 ft/year (TRC 2018a). Since, MW-112D is located approximately 950 feet from the CCR unit, any release from the CCR Unit would be detected in Stratum III at MW-112D within approximately 95 years, which is significantly longer than the CCR Unit has been in operation. Therefore, the concentration of boron at MW-112D likely represents either potential pre-CCR Rule migration from historic fill or background groundwater quality for Stratum III.

3.12 Calcium at MW-112D

The calcium SSI identified at MW-112D is a result of natural variation in groundwater quality and potential impact of CCR disposed at the CADL prior to October 19, 2015. The following evidence supports this determination:

- Calcium was detected in MW-112D at a concentration of 43.2 mg/L in the April 2025 sample, which was consistent with 41.4 mg/L in the November 2024 sample. This concentration exceeds the intrawell prediction limit of 22.5 mg/L. The Mann-Kendal statistic of 291 exceeded the critical value of 101 indicating a significant increasing trend at the 98% confidence level. The relatively low TDS indicated that EC in groundwater is not a factor to the calcium exceedance. Calcium concentrations measured at MW-118D (background well for Stratum III) have ranged from 68.4 to 83.2 mg/L. Therefore, the calcium exceedance at MW-112D is within the range of variation in background groundwater quality and is not a potential environmental concern.
- Based on review of potentiometric surface mapping, locations of historic fill, locations of closed portions of the CADL, and the CCR Unit relative to MW-112D, MW-112D is located immediately adjacent (approximately 25 feet) to historic fill, but approximately 950 feet from the CCR Unit. Therefore, the concentrations of calcium measured in MW-112D may be more reflective of pre-CCR Rule disposal rather than of the CCR Unit.
- As discussed previously, groundwater flow velocities are estimated to be approximately <1 ft/year to 10 ft/year (TRC 2018a). Since, MW-112D is located approximately 950 feet from the CCR Unit, any release from the CCR Unit would be detected in Stratum III at MW-112D within approximately 95 years, which is significantly longer than the CCR Unit has been in operation. Therefore, the concentration of calcium at MW-112D likely represents either potential pre-CCR Rule migration from historic fill or background groundwater quality for Stratum III.

3.13 TDS at MW-112D

The TDS SSI identified at MW-112D is a result of natural variation in groundwater quality and potential impact of CCR disposed at the CADL prior to October 19, 2015. The following evidence supports this determination:

- TDS was detected in MW-112D at a concentration of 326 mg/L in the April 2025 sample, which exceeded the intrawell prediction limit of 205 mg/L. Compared to the value of 317 mg/L in the November 2024 sample, the TDS concentrations are consistent. The Mann-Kendal statistic of 270 exceeded the critical value of 101 indicating a significant increasing trend at the 98% confidence level. TDS concentrations measured at MW-118D (background well for Stratum III) have ranged from 415 to 484 mg/L. A review of groundwater parameters in Stratum III indicates that sulfate is a great contributor to TDS, but the sulfate concentration at MW-112D is not detectable (less than 5 mg/L). Therefore, the TDS exceedance at MW-112D

is within the range of variation in background groundwater quality and is not a potential environmental concern.

- Based on review of potentiometric surface mapping, locations of historic fill, locations of closed portions of the CADL, and the CCR Unit relative to MW-112D, MW-112D is located immediately adjacent (approximately 25 feet) to historic fill, but approximately 950 feet from the CCR Unit. Therefore, the concentrations of TDS measured in MW-112D may be more reflective of pre-CCR Rule disposal rather than of the CCR Unit.
- As discussed previously, groundwater flow velocities are estimated to be approximately <1 ft/year to 10 ft/year (TRC 2018a). Since, MW-112D is located approximately 950 feet from the CCR unit, any release from the CCR Unit would be detected in Stratum III at MW-112D within approximately 95 years, which is significantly longer than the CCR Unit has been in operation. Therefore, the concentration of TDS at MW-112D likely represents either potential pre-CCR Rule migration from the historic fill or background groundwater quality for Stratum III.

Section 4

Conclusions

The information provided in this report serves as the ASD prepared in accordance with 40 CFR 257.94(e)(2) of the CCR Rule. Statistical evaluation identified 13 potential SSIs in three monitoring wells in Stratum I and one monitoring well in Stratum III. This ASD has demonstrated the following lines of reasoning that support alternative sources for the identified SSIs:

- Historical data indicated acidic groundwater geochemistry conditions in MW-106S, and MW-111S. The 10 SSIs identified in Stratum I are related to the natural groundwater geochemistry conditions, such as low pH, high electrical conductivity, potential presence of sulfide minerals in soils and relatively high oxidation-reduction potential.
- The 3 SSIs identified in Stratum III wells MW-112D are mostly within the natural variation in groundwater quality compared to MW-118D, which likely represents background natural groundwater quality of Stratum III due to its location to CCR Unit and groundwater flow velocities.
- Releases from historic fill or portions of the CADL closed before the effective date of the CCR Rule (October 19, 2015); and/or
- Surface water that has come into contact with on-site CCR and has migrated into the subsurface.

Therefore, the SSIs determined based on statistical analysis of the 1st Half 2025 semiannual detection monitoring event performed in April 2025 are not due to a release from the CCR Unit to Stratum I and III of the Jackson Group. Based on the information provided in this ASD report, EAL will continue to conduct semiannual detection monitoring in accordance with 40 CFR 257.94 at the Certified Monitoring Well Network for the CCR Unit.

Section 5 Certification

I hereby certify that the alternative source demonstration presented within this document for the Entergy White Bluff Plant Coal Ash Disposal Landfill CCR Unit has been prepared to meet the requirements of Title 40 CFR §257.94(e) 2 of the Federal CCR Rule. This document is accurate and has been prepared in accordance with good engineering practices, including the consideration of applicable industry standards, and with the requirements of Title 40 CFR §257.94(e) 2.

Name: Nakia Addison P.E.

Expiration Date: December 31, 2027

Company: TRC Environmental Corporation

Date: December 1, 2025



(SEAL)

Section 6

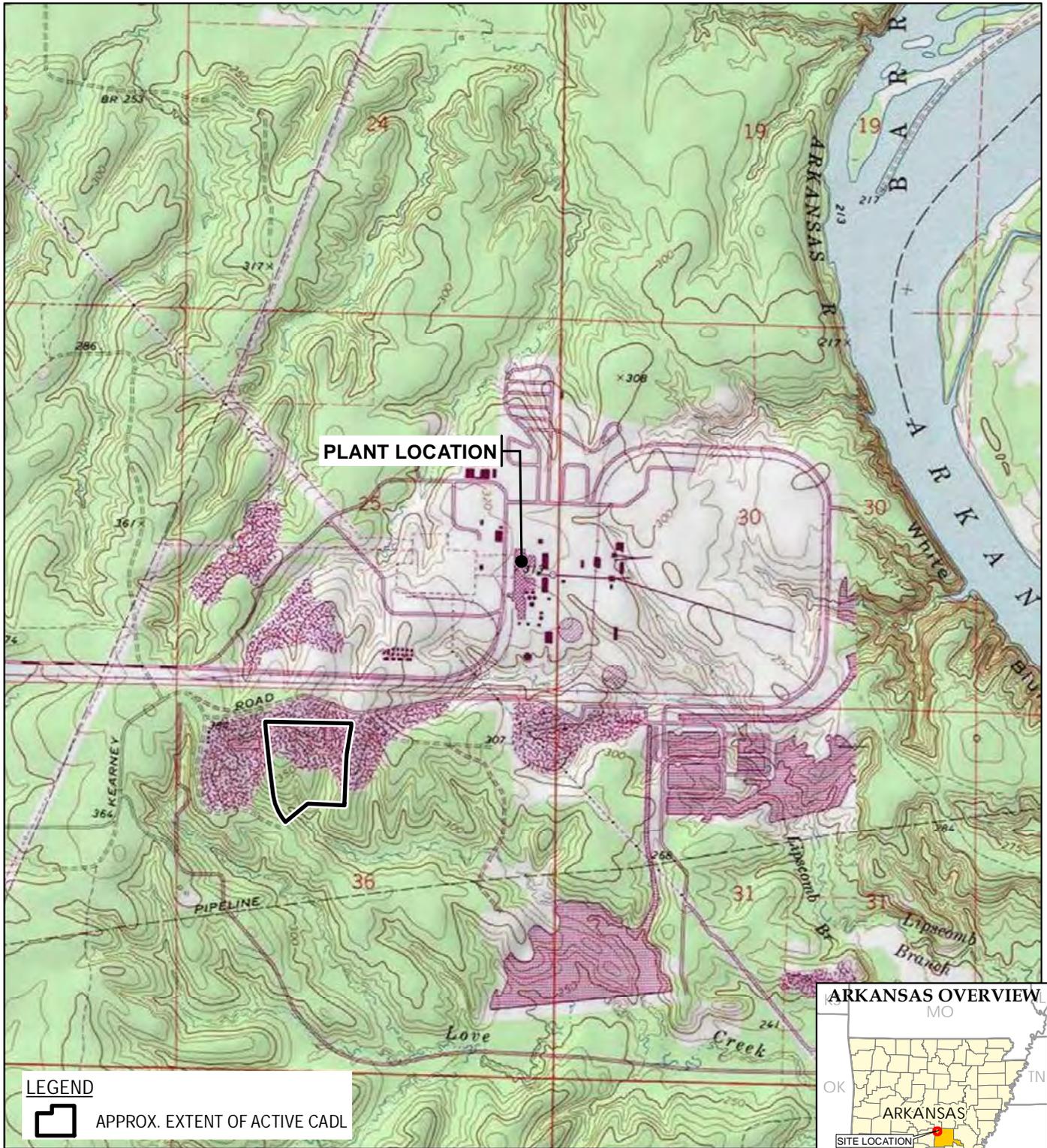
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LEGEND

 APPROX. EXTENT OF ACTIVE CADL

BASE MAP FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE SERIES.



 Two United Plaza 8550 United Plaza Blvd., Suite 502 Baton Rouge, LA Phone: 225.216.7483 TRC - GIS	PROJECT: ENERGY WHITE BLUFF PLANT 1100 WHITE BLUFF ROAD REDFIELD, ARKANSAS	DRAWN BY: S. MAJOR CHECKED BY: G. TIEMAN APPROVED BY: J. HOUSE DATE: JANUARY 2022
	TITLE: ENERGY WHITE BLUFF PLANT LOCATION MAP	PROJ. NO.: 341458 FILE: 341458-001slm_20220105.mxd

FIGURE 1

APPENDIX 1

Historical Data

Well	Date	Boron (mg/L)	Calcium (mg/L)	Chloride (mg/L)	TDS (mg/L)	Fluoride (mg/L)	pH (s.u.)	Sulfate (mg/L)
MW-101D	3/13/2017	0.129(J)	20.4	6.93	248	0.122	6.7	n/a
	4/3/2017	0.0885(J)	18.6	7.75	246	0.0955	6.3	n/a
	4/25/2017	0.112(J)	16.7	7.35	217	0.101(J)	6.2	n/a
	5/16/2017	0.092(J)	17.5	6.98	228	0.129	6.3	n/a
	6/5/2017	0.142(J)	28.3	7.19	278	0.101	6.6	n/a
	6/27/2017	0.102(J)	23.3	7	1170	0.119	6.3	n/a
	7/18/2017	0.143(BJ)	38	7.02	286	0.104	6.5	n/a
	8/8/2017	0.131(J)	29.5(B)	7.05	283	0.123	6.1	n/a
	8/29/2017	0.128(J)	29.1	6.79	243	0.109	6.6	n/a
	3/26/2018	0.121(J)	28.6	6.94	270	0.0707	6.5	n/a
	8/13/2018	0.0994(J)	38.3	6.42	337	0.0725(J)	6.5	n/a
	9/20/2018	n/a	n/a	n/a	n/a	n/a	4.7	n/a
	3/5/2019	0.111(J)	30.5	5.6	280	0.125	6.2	n/a
	8/28/2019	0.118(J)	43.9	6.15	316	0.0962	6.6	n/a
	11/19/2019	n/a	n/a	n/a	n/a	n/a	6.8	n/a
	3/26/2020	0.0621(J)	26.9	6.25	263	0.125	6.41	41
	12/9/2020	0.18(J)	56.8	6.28	384	<0.15*	6.93	80.6
	8/19/2021	0.184(J)	55.3	5.82	399	0.117(J)	7.09	85.3
	12/2/2021	<0.02	56.3	5.03	378	<0.064	7.44	75.6
	06/15/2022	<0.200	50.8	7.38	354	<0.150	7.75	77.4
	12/06/2022	0.206	54.3	6.3	397	<0.150	7.15	89.9
	06/08/2023	<0.200	48	5.99	349	<0.150	1.55	74
	11/17/2023	<0.200	56.9	5.85	297	<0.150	7.06	80.1
05/20/2024	<0.200	45.3	5.66	316	<0.150	6.88	64.4	
11/22/2024	<0.200	56.3	6.39	382	<0.150	6.88	85.7	
04/29/2025	<0.200	57.5	5.28	380	<0.150	6.85	<5.00	
MW-101S	10/20/2015	0.06(J)	17.5	9.62	220(B)	0.0521(J)	6.1	49
	1/25/2016	0.0717(J)	33.8	8.63	421	0.0929(J)	11	70.4
	4/12/2016	0.0781(J)	98.5	7.11	301	0.0474(J)	9.4	56
	7/11/2016	0.0792(BJ)	23.8	7.57	335(B)	0.0272(J)	6.2	51.3
	10/3/2016	0.0668(J)	15.7	7.43	195(B)	0.0255(J)	5.6	50.2
	1/20/2017	0.0872(J)	17.5	7.72	232(B)	0.0471(J)	6	54.7
	4/3/2017	0.0671(J)	46.1	7.28	399	0.0473(J)	6.8	49.7
	6/5/2017	0.0794(J)	34.3	7.66	289	0.0592(J)	6.4	49.2
	8/29/2017	0.0811(J)	14	7.21	197	<0.1	5.8	51
	3/26/2018	0.093(J)	46.1	6.24	312	0.0453(J)	6.9	43.5
	8/13/2018	0.0487(J)	14.1	7.06	217	<0.1	5.9	46.9
	3/5/2019	0.0819(J)	36.2	6.34	278	0.0798(J)	6.4	44.2
	8/29/2019	0.0362(J)	14.5	7.81	213	0.0296(J)	5.9	51.6

B: analyte was detected in associated QA/QC sample.

J: analyte was detected below the RDL; value is an estimate.

O: value is a statistical outlier.

R: value was rejected due to suspected error; not used in statistics.

Entergy White Bluff Landfill CCR Database

	3/26/2020	0.0433(J)	36.3	7.45	261	0.105	6.09	44.4
	12/9/2020	0.0238(J)	14.8	7.52	200	<0.15*	5.69	48.7
	8/19/2021	0.0329(J)	15(O1)	7.53	228	0.077(J)	5.98	49.4
	12/1/2021	<0.02	14.3	7.29	207	<0.064	6.76	49
	06/15/2022	<0.200	21.8	8.52	234	<0.150	5.98	52.5
	12/07/2022	<0.200	15.9	7.65	217	<0.150	5.51	51.3
	06/08/2023	<0.200	15.4	7.5	208	<0.150	4.67	49.1
	11/17/2023	<0.200	15	7.38	194	<0.150	6.04	47.7
	05/20/2024	<0.200	17.7	7.06	206	<0.150	5.82	47.1
	11/20/2024	<0.200	15.4	7.02	204	<0.150	5.82	50.8
	04/29/2025	<0.200	19.5	6.47	219	<0.150	5.85	48.5
MW-102D	10/20/2015	0.227	72.8	11.6	451(B)	0.114	7.6	122
	1/25/2016	0.281	95.8	13.5	583	0.079(J)	8.7	168
	4/12/2016	0.302	98.9	13.2	598	0.059(J)	6.9	177
	7/11/2016	0.303(B)	97.7	19.5	610(B)	0.122	7.3	172
	10/3/2016	0.31	98.6	13	592(B)	0.0553(J)	6.8	170
	1/20/2017	0.332	94.6	12.4	625(B)	0.0672(J)	7.3	145
	4/3/2017	0.29	101	12	592	0.0671(J)	7.2	145
	6/5/2017	0.306	96.5	11.9	660	0.0777(J)	7.3	139
	8/29/2017	0.323	100	11.5	540	0.0936(J)	7.2	26.9
	3/26/2018	0.32	93.3	11.1	550	0.0472(J)	7.2	114
	8/13/2018	0.282	87.6	11	535	0.0349(J)	6.1	110
	3/5/2019	0.314	81	9.48	506	0.102	7	79.7
	8/28/2019	0.265	77.3	10.1	338	0.0864(J)	7.1	71.1
	3/26/2020	n/a	n/a	n/a	n/a	n/a	6.41	n/a
	4/1/2020	0.177	n/a	6.08	354	n/a	n/a	78.9
	4/6/2020	n/a	55.3	n/a	n/a	0.117(J)	n/a	n/a
	12/10/2020	0.28	76.1	8.52	445	0.102(J)	7.15	39.3
	8/19/2021	0.275	1	8.55	456	0.106(J)	n/a	47.2
	12/2/2021	0.27	73.8	8.25	456	<0.064	7.49	43.8
	06/14/2022	0.274	69.2	8.54	406	<0.150	8.17	33.8
	12/07/2022	0.26	127	n/a	428	<15.0	6.8	<500
	06/08/2023	0.277	66.9	8.28	487	<0.150	3.68	29.1
	11/17/2023	0.275	67.2	8.22	445	<0.150	7.47	25.7
	05/20/2024	0.301	65.7	7.64	386	<0.150	7.28	23.9
	11/19/2024	0.269	76.6	7.47	556	<0.150	7.28	25.3
	04/28/2025	0.269	64.9	7.18	397	<0.150	7.28	20.4
MW-102S	10/20/2015	0.0699(J)	9.72	8.56	190(B)	0.135	6	25.4
	1/25/2016	0.0671(J)	10.9	7.51	196	0.0913(J)	7.7	21.9

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Entergy White Bluff Landfill CCR Database

	4/12/2016	0.0675(J)	9.09	6.85	181	0.071(J)	5.5	18.1
	7/11/2016	0.0688(BJ)	7.15	6.92	182(B)	0.0695(J)	6.2	19.1
	10/3/2016	0.0659(J)	8.18	7.79	149(B)	0.067(J)	5.9	21.9
	1/20/2017	0.0795(J)	7.61	7.27	193(B)	0.0797(J)	5.8	19.8
	4/3/2017	0.054(J)	8.44	7.48	154	0.0391(J)	5.7	19.5
	6/5/2017	0.083(J)	8.06	7.14	192	0.0847(J)	5.9	19
	8/29/2017	0.0638(J)	8.12	6.91	173	0.0957(J)	5.9	20.1
	3/26/2018	0.0668(J)	8.68	7.1	179	0.0514(J)	5.7	18.7
	8/13/2018	0.0387(J)	9.01	7.36	194	0.037(J)	5.4	18.7
	3/6/2019	0.0721(J)	8.63	6.56	169	0.102	5	17.9
	8/28/2019	0.021(J)	8.05	7.32	142	0.0941(J)	5.6	21.2
	3/26/2020	0.0383(J)	9.06	7.25	172	0.0968(J)	5.6	19.5
	3/27/2020	0.0305(J)	8.74	6.55	173	0.117	6.44(T8)	16.6
	12/7/2020	0.026(J)	10.1	6.35	223	0.0768(J)	5.75	16.9
	8/19/2021	0.0315(J)	9.65	7.07	184	0.103(J)	n/a	20.3
	12/1/2021	<0.02	12.6	7.19	193	<0.064	6.55	24.2
	06/14/2022	<0.200	10.3	7	183	<0.150	6.06	19.1
	12/06/2022	<0.200	16.2	8.08	3860	<0.150	5.94	27.6
	06/08/2023	<0.200	12.5	7.54	198	<0.150	4.28	23.1
	11/16/2023	<0.200	14.4	7.75	204	0.663	6.02	25.2
	05/20/2024	<0.200	11.3	6.53	164	<0.150	5.73	19.7
	11/20/2024	<0.200	15.6	7.19	195	<0.150	5.73	27.5
	04/28/2025	<0.200	13.5	6.59	193	<0.150	6.25	22.9
MW-103D	10/21/2015	0.162(J)	46.3	19.9	321(B)	0.257	11	145
	1/25/2016	0.154(J)	79.9	21.9	408	0.247	12.2	156
	4/12/2016	0.192(J)	259	13.8	720	0.28	11.8	75.9
	7/11/2016	0.146(BJ)	256	9.22	775(B)	0.288	11.8	43
	10/3/2016	0.193(J)	140	13.5	396(B)	0.329	11.4	76
	1/20/2017	0.241	38.5	17.1	306(B)	0.413	10.9	113
	4/3/2017	0.203	50.6	17.7	325	0.286	8.8	125
	6/6/2017	0.234	38.6	18.1	325	0.282	9.2	125
	8/29/2017	0.213	32	17.9	312	0.254	8.6	25.9
	3/26/2018	0.23	42.2	17.5	367	0.232	8.3	135
	8/14/2018	0.205	41.4	16.5	376	0.188	7.3	122
	3/6/2019	0.261	37.2	14.5	380	0.247	7.8	115
	8/28/2019	0.214	41.1	13.5	387	0.22	7.8	115
	3/27/2020	n/a	n/a	n/a	n/a	n/a	7.63	n/a
	4/2/2020	0.24	40.5	12	388	0.17	n/a	94.4
	12/10/2020	0.247	48	9.63	399	0.198	7.58	86.4
	8/19/2021	0.24	46.5	8.49	441	0.199	n/a	87.5
	12/1/2021	0.271	50.2	7.99	423	0.184	7.68	76.5

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Entergy White Bluff Landfill CCR Database

	06/13/2022	0.268	50.4	9.17	407	0.165	8.3	76.7
	12/08/2022	0.276	52.5	7.89	398	0.194	7.43	71.6
	06/07/2023	0.286	54.3	7.29	422	0.166	5.13	71.6
	11/15/2023	0.274	55.6	6.75	437	0.203	7.90	63.7
	05/22/2024	0.312	56.1	6.67	435	<0.150	7.57	64.3
	11/18/2024	0.218	42.9	6.17	435	0.217	7.57	98.3
	04/29/2025	0.283	69.2	6.16	497	0.152	7.16	<5.00
MW-103S	11/2/2015	0.109(J)	7.36	4.99	282(B)	0.0527(J)	4.5	91.3
	1/25/2016	0.0435(J)	8.2	6.74	271	0.0605(J)	6.4	91.4
	4/14/2016	0.183(J)	0.956(J)	0.731(J)	224(B)	<0.1	5.2	11
	7/11/2016	0.102(BJ)	2.68	5.65	206(B)	0.0347(J)	4.8	75.2
	1/24/2017	0.0878(J)	4.25	6.09	115(B)	0.0536(J)	4.7	91.9
	4/3/2017	0.115(J)	4.53	5.11	231	0.0699(J)	4.7	90
	6/6/2017	0.174(J)	0.879(J)	5.74	162	0.0544(J)	5.1	47.4
	7/18/2017	0.0891(BJ)	2.57(B)	n/a	n/a	n/a	4.7	n/a
	8/30/2017	0.0904(J)	3.77	5.5	219	0.0367(J)	4.3	85.3
	3/27/2018	0.215	0.755(J)	3.93	109	0.0439(J)	5	33.6
	8/15/2018	0.145(J)	4.93	5.24	272	0.073	4.2	74.4
	3/6/2019	0.241	1.83	3.45	141	0.0943(J)	5.5	36.2
	8/28/2019	0.142(J)	1.52	5.43	202	0.0393(J)	5.2	68.5
	3/26/2020	0.186(J)	10.3	3.14	134	0.119	5.58	31.9
	12/1/2020	n/a	n/a	n/a	n/a	n/a	5.17	n/a
	12/2/2020	0.123(J)	3.99	4.82	229	0.0696(J)	5.36(T8)	68.3
	8/19/2021	0.152(J)	3.26	3.39(B)	127	0.0857(J)	n/a	27.6
	12/1/2021	<0.02	4.9	4.18(B)	187	<0.064	5.4	70.4
	06/13/2022	<0.200	3.96	4.62	122	<0.150	4.31	39.5
	12/06/2022	0.282	5.41	5.14	980	<0.150	4.73	79.4
	06/07/2023	<0.200	4.57	4.07	117	<0.150	4.56	37
	11/15/2023	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	05/22/2024	0.218	5.99	7.94	212	<0.150	5.02	50.7
	11/22/2024	0.608	10.7	7.59	221	<0.750	5.02	92.3
	04/22/2025	<0.200	4.7	5.75	151	<0.150	4.86	43.8
MW-104D	10/20/2015	0.155(J)	21.1	7.2	136(B)	0.087(J)	7.5	15.1
	1/25/2016	0.21	31.2	8.41	203	0.0868(J)	8.4	15.9
	4/13/2016	0.233	38.6	8.86	232	0.0834(J)	7.1	16.1
	7/11/2016	0.244(B)	40.1	8.82	260(B)	0.0514(J)	7.5	12.8
	10/3/2016	0.255	44	9.92	298(B)	0.0471(J)	7	19.8
	1/20/2017	0.265	44	9.71	270(B)	0.0633(J)	7.5	18.1
	4/3/2017	0.177(J)	36.3	9.06	207	0.0334(J)	7.1	1.42(J)
	6/6/2017	0.271	48.3	9.94	287	0.0717(J)	7.5	19

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Entergy White Bluff Landfill CCR Database

8/29/2017	0.26	48.3	9.26	270	0.0845(J)	7.2	14.8
3/26/2018	0.276	51.2	9.87	304	0.0928(J)	7.3	19.3
8/13/2018	0.244	52	9.86	304	0.026(J)	6.8	18.2
3/6/2019	0.255	50.6	9.9	305	0.0658(J)	7.2	19.3
8/28/2019	0.216	52.7	10.3	320	0.0562(J)	7.5	21.1
3/27/2020	n/a	n/a	n/a	n/a	n/a	7.2	n/a
4/6/2020	0.219	50	10.1	310	0.0736(J)	n/a	18.1
12/11/2020	0.223	55.7	9.43	319	0.099(J)	7.17	14
8/19/2021	0.231	53.1	9.62	327	0.101(J)	n/a	10.4
12/2/2021	0.235	55	9.79	324	<0.064	7.7	17.3
06/15/2022	0.28	53.1	8.95	319	<0.150	6.97	29.7
12/05/2022	0.277	52.1	7.46	331	<0.150	7.62	25.9
06/07/2023	0.245	55.4	9.3	321	<0.150	6.19	20.1
11/14/2023	0.241	52.6	9.25	333	0.202	7.61	17.5
05/21/2024	0.26	56.7	10.1	334	<0.150	7.33	16.2
11/19/2024	0.235	58.3	8.82	330	<0.150	7.33	23.1
04/28/2025	0.239	56.7	8.42	334	<0.150	7.24	23.8

MW-104S	10/20/2015	0.843	17.6	5.78	272(B)	0.0778	5.2	90.4
	1/25/2016	0.916	17	3.86	274	0.0293	5.9	88.2
	4/12/2016	0.936	17.4	4.27	286	0.0282	n/a	114
	7/12/2016	0.929(B)	16.4	4.41	320(B)	0.0266	8	87.1
	10/3/2016	0.966	19.8	4.37	301(B)	0.0393	5.3	90.1
	1/23/2017	1	18.2	4.17	333(B)	0.0672	5.4	84.4
	4/5/2017	0.822	19.8	4.32	353	0.0988	5.5	82.5
	6/7/2017	0.802	22.2	4.71	348	0.0885	5.6	86.1
	8/30/2017	0.839	28.1	3.69	338	<0.1	5.7	88.7
	3/27/2018	0.803	30.6	4.04	309	0.124	5.6	84.1
	8/15/2018	0.659	28.4	4.08	305	0.0337	4.9	81.5
	3/7/2019	0.795	26.8	3.92	278	0.0545	5.2	82.6
	8/29/2019	0.662	25.7	4.22	227	0.0398	5.4	86.7
	3/26/2020	0.853	20.7	3.95	269	0.0874(J)	5.14	74.6
	12/2/2020	0.727	20.3	3.86	250	<0.15*	5.3	76.2
	8/19/2021	0.828	17.7	4.17(B)	265	0.0716(J)	n/a	76.4
	12/2/2021	0.723	20.5	4.01(B)	259	<0.064	5.56	83.6
	06/13/2022	0.863	15.5	4.92	248	<0.150	4.82	71.7
	12/08/2022	0.837	15.6	4.34	248	<0.150	4.9	79.6
	06/07/2023	0.782	16.3	4.58	233	<0.150	5	73.9
	11/14/2023	0.834	14.4	4.39	253	0.17	5.50	65.7
	05/21/2024	0.911	19	4.05	232	<0.150	5.19	64.5
	11/19/2024	0.743	15.9	3.95	228	<0.150	5.19	71.1
	04/28/2025	0.827	14.7	3.75	243	<0.150	5.07	68.2

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MW-105D	10/20/2015	0.211	27.2	6.92	206(B)	0.125	7.7	18.2
	1/25/2016	0.259	35.2	7.51	233	0.123	9.8	15.9
	4/12/2016	0.145(J)	21.9	6.58	229	0.0882(J)	6.6	10.7
	7/11/2016	0.275	40.5	7.39	256(B)	0.0739(J)	9.1	16.4
	10/3/2016	0.284	45.7	8.28	279(B)	0.072(J)	7.6	24
	1/20/2017	0.308	46.8	7.39	299(B)	<0.1	7.6	26.7
	4/4/2017	0.254	48.8	7.28	285	0.0473(J)	7.4	49.7
	6/6/2017	0.312	52.3	8.56	317	0.0856(J)	7.6	33.9
	8/29/2017	0.284	50.1	8.19	303	0.0982(J)	7.4	35
	3/26/2018	0.312	53.9	8.41	345	0.0982(J)	7.5	39.8
	8/13/2018	0.273	51.6	8.82	355	0.0208(J)	7.1	34.4
	3/6/2019	0.313	53.1	8.52	329	0.0793(J)	7.5	30.6
	8/28/2019	0.254	54.8	8.85	331	0.0772(J)	7.6	33.9
	3/27/2020	n/a	n/a	n/a	n/a	n/a	7.14	n/a
	4/6/2020	0.279	55.6	8.34	334	0.0752(J)	n/a	29
	12/9/2020	0.27	58.1	8.81	368	0.0805(J)	7.45	31.4
	8/19/2021	0.153(J)	33.2	6.71	237	0.104(J)	n/a	4.56(J)
	12/3/2021	0.267	58	8.36	348	<0.064	7.67	29.3
	06/14/2022	0.284	56.8	8.36	343	<0.150	8.61	28.7
	12/08/2022	0.28	57.2	8.99	353	<0.150	7.78	29.5
	06/06/2023	0.284	54.4	8.28	331	<0.150	5.11	26.3
	11/14/2023	0.273	53.7	8.94	332	0.31	7.71	27
	05/21/2024	0.293	59	8.17	339	<0.150	7.62	26.6
	11/19/2024	0.271	56.3	7.86	335	<0.150	7.62	29.8
	04/29/2025	0.277	57.8	7.7	358	<0.150	7.49	24.1
MW-105S	10/20/2015	0.0822(J)	40.4	10.2	308(B)	0.104	6.1	57.6
	1/25/2016	0.227	109	9.85	382	0.319	n/a	53.3
	4/12/2016	0.112(J)	85.4	4.8	339	0.0994(J)	6.8	33.9
	7/12/2016	0.102(J)	56.3	4.42	333(B)	0.0606(J)	7	29.7
	10/4/2016	0.0809(J)	44.3	5.38	293(B)	0.0373(J)	6.1	30.8
	1/23/2017	0.157(J)	39.3	5.76	285(B)	0.1	6.9	45.4
	4/5/2017	0.208	33.1	8.95	330	0.213	10.9	70.7
	6/6/2017	0.123(J)	36.9	4.82	277	0.0926(J)	7.7	35.8
	8/30/2017	0.083(J)	33.1	4	236	<0.1	6	28.2
	3/28/2018	0.078(J)	19.7	3.76	199	0.0372(J)	6	26.3
	8/14/2018	0.0758(J)	17.5	5.2	242	0.0349(J)	5.4	29.8
	3/7/2019	0.734	36.3	10.2	447	0.214	6.1	97.1
	8/29/2019	0.701	49.8	10.5	399	0.0992(J)	6.3	114
	3/26/2020	0.263	24.9	4.99	238	0.107	5.98	44.5
	12/2/2020	0.0737(J)	22.2	4.18	228	0.0774(J)	6.24	33.6

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	8/19/2021	0.0589(J)	15.1	4.44(B)	208	0.0935(J)	n/a	27.4
	12/3/2021	<0.02	17.5	5.04	205	<0.064	5.74	32.1
	06/14/2022	<0.200	14.6	3.95	179	<0.150	5.97	23.2
	12/06/2022	<0.200	15.3	5.25	97	<0.150	5.57	32
	06/07/2023	<0.200	13.7	4.07	173	<0.150	5.77	21.5
	11/14/2023	<0.200	16.3	4.83	207	0.171	6.02	28.3
	05/21/2024	<0.200	17.7	3.73	179	<0.150	6.07	21.6
	11/19/2024	<0.200	17.9	4.9	199	<0.150	6.1	33.4
	04/30/2025	<0.200	15.1	3.59	187	<0.150	5.9	21.1
MW-106D	10/21/2015	0.321	41.6	6.09	298(B)	0.079(J)	7.5	35
	1/25/2016	0.301	37.6	8.55	332	0.0919(J)	10.2	48.1
	4/12/2016	0.358	48.4	7.38	334	0.0869(J)	6.9	41.6
	7/11/2016	0.349	47.8	6.67	334(B)	0.06(J)	8.8	31.9
	10/3/2016	0.335	45.4	8.56	352(B)	0.064(J)	7.2	32.9
	1/20/2017	0.382	48.9	6.03	341(B)	<0.1	7.5	25.3
	4/3/2017	0.313	52.8	6.68	321	0.0675(J)	7.1	22.6
	6/6/2017	0.354	51.7	6.52	338	0.0824(J)	8.4	20.2
	8/29/2017	0.335	52.2	5.21	324	<0.1	7.4	19.4
	3/26/2018	0.366	52.7	5.62	318	0.101	7.3	19
	8/14/2018	0.313	51.6	5.6	329	0.0405(J)	6.9	19.4
	3/6/2019	0.333	51	5.48	329	0.0599(J)	7.4	18.9
	8/28/2019	0.293	53.2	5.67	345	0.0714(J)	7.5	22.7
	3/27/2020	n/a	n/a	n/a	n/a	n/a	7.29	n/a
	4/2/2020	0.301	53.2	5.55	343	0.106(J)	n/a	19.4
	12/12/2020	0.296	55.2	5.44	352	0.077(J)	7.46	13.3
	8/19/2021	0.296	52.1	4.85(B)	351	0.114(J)	n/a	13.1
	12/3/2021	0.307	56.4	5.85	356	<0.064	7.46	14.2
	06/14/2022	0.305	57.9	6.06	531	<0.150	8.49	13.2
	12/08/2022	0.304	56.7	5.92	329	<0.150	7.21	12.5
	06/07/2023	0.277	42.9	5.01	210	<0.150	6.75	10.3
	11/17/2023	0.249	37.1	<10.0	185	<1.50	9.99	<50.0
	05/21/2024	0.243	36.9	4.74	184	<0.150	10.82	10.8
	11/20/2024	0.242	28.1	<10.0	184	<1.50	10.82	<50.0
	04/30/2025	0.307	52.2	4.9	356	<0.150	7.57	9.38
MW-106S	10/21/2015	6.34	16	13.8	693(B)	0.348	4.3	350
	1/25/2016	7.5	16.6	10.5	629	0.344	4.5	385
	4/12/2016	6.93	16.8	8.98	605	0.483	4.6	462
	7/12/2016	6.06(B)	16.3	11.9	589(B)	0.333	5.9	375
	10/4/2016	6.38	16.3	13.8	654(B)	0.429	4.1	430
	1/24/2017	7.14	17.1	12.6	652(B)	0.429	4	434

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	4/5/2017	7.19	20.4	9.9	699	0.434	4.3	427
	6/6/2017	7.36	18.9	9.64	691	0.382	4.5	478
	8/30/2017	7.45	17.8	10.2	674	0.336	4.1	368
	3/27/2018	7.07	20.4	11.1	688	0.481	4.2	456
	8/14/2018	6.52	25.5	12.6	738	0.541	3.6	479
	3/7/2019	6.52	24.2	9.57	675	0.449	4	440
	8/29/2019	6.54	31.2	11.8	816	0.626	4	545
	3/25/2020	5.86	31.6	9.01	769	0.519	4.16	497
	12/2/2020	6.61	33.5	10.3	899	0.687	4.02	615
	8/19/2021	6.39	32.5	10.6	980	0.683	4.13	640
	11/30/2021	7.43	40.2	11.1	1090	0.681	3.91	710
	06/14/2022	5.85	30	11	920	0.661	4.01	633
	12/06/2022	6.39	31.6	13.1	979	0.803	3.83	643
	06/07/2023	7.4	46.8	13.3	1200	0.728	4.02	808
	11/17/2023	6.91	40.5	12.6	1040	0.695	4.00	698
	05/21/2024	7.12	38	12.5	1120	0.901	3.96	752
	11/20/2024	6.84	41.7	11.9	1200	<1.50	4	802
	04/22/2025	8.53	38.7	11.4	1260	<0.750	4.03	813
MW-107D	10/21/2015	0.326	58.8	16.9	451(B)	0.0777(J)	7.3	162
	1/25/2016	0.205	16.5	8.85	243	0.074(J)	9.6	59.7
	4/12/2016	0.414	82	19.6	522	0.0733(J)	7.2	190
	7/11/2016	0.313	58.4	15.8	415(B)	0.0554(J)	8.6	109
	10/3/2016	0.389	83.8	19.5	521(B)	0.0636(J)	6.9	158
	1/20/2017	0.411	78.1	19	529(B)	<0.1	7.3	135
	4/3/2017	0.356	87.1	20.1	551	0.0544(J)	7.3	150
	6/6/2017	0.379	80.7	19.5	510	0.0682(J)	8.3	136
	8/29/2017	0.366	81.1	19.2	514	<0.1	7.3	155
	3/26/2018	0.376	85	20.1	536	0.093(J)	7.3	151
	8/13/2018	0.335	81.3	20.2	534	0.0306(J)	7.1	141
	3/6/2019	0.366	79.8	19.8	506	0.069(J)	7.2	136
	8/28/2019	0.32	83.9	20.7	544	0.068(J)	7.5	159
	3/27/2020	n/a	n/a	n/a	n/a	n/a	7.17	n/a
	4/6/2020	0.321	82	17.6	493	0.0789(J)	n/a	115
	12/12/2020	0.32	81.2	20.2	530	0.0681(J)	7.34	113
	8/19/2021	0.275	61.2	16.3	483	0.12(J)	7.41	97.4
	12/3/2021	0.32	83.6	21	542	<0.064	7.28	132
	06/14/2022	0.324	85	20.3	383	<0.150	7.36	128
	12/06/2022	0.315	82.1	21.3	509	<0.150	7.13	129
	06/06/2023	0.329	82.8	20	470	<0.150	1.75	137
	11/16/2023	0.318	79	19.9	534	<0.150	8.01	125
	05/22/2024	0.315	77.9	19	512	<0.150	7.5	118

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	11/22/2024	0.332	79.3	21.1	523	<0.150	7.5	128
	04/30/2025	0.317	80.2	20.1	532	<0.150	7.26	126
MW-108D	10/21/2015	0.32	50.7	10.7	388(B)	0.13	7.4	77.2
	1/25/2016	0.349	50.4	9.77	409	0.0875(J)	9.8	71.2
	4/12/2016	0.364	65.8	11.4	449	0.0738(J)	7.3	96.4
	7/11/2016	0.363	67.9	11.2	477(B)	0.0459(J)	9.5	95.3
	10/3/2016	0.347	68.1	11	453(B)	0.0451(J)	6.9	89.7
	1/20/2017	0.394	66.4	10.2	482(B)	<0.1	7.1	87.1
	4/3/2017	0.269	53.5	10.7	379	0.0186(J)	7.3	44.4
	6/5/2017	0.375	77.4	13.3	571	0.0718(J)	7.2	95
	8/29/2017	0.364	82.1	13	506	<0.1	7.2	97.5
	3/26/2018	0.38	93.6	15.4	613	0.0967(J)	7.1	107
	8/14/2018	0.339	87.1	16.4	607	0.0569(J)	6.9	92.4
	3/5/2019	0.373	84.8	16.1	589	0.0785(J)	7.1	80.3
	8/28/2019	0.324	83.5	16.5	596	0.0721(J)	7.3	76.4
	3/27/2020	0.324	83	15.3	575	0.112	7.17	61.2
	12/4/2020	0.333	81.7	14.2	568	0.093(J)	8.17	95.2
	8/19/2021	0.337	76	13.1	545	0.109(J)	n/a	95.8
	12/1/2021	0.343	72.3	13.4	531	<0.064	7.93	70.9
	06/14/2022	0.339	72.1	13.5	501	<0.150	8.38	58.1
	12/05/2022	0.332	70.5	13.8	523	<0.150	7.63	52.5
	06/07/2023	0.352	68	12.7	469	<0.150	5.01	43.2
	11/16/2023	0.344	64.2	12.6	464	<0.150	7.74	38.6
	05/22/2024	0.336	66.4	12.2	481	<0.150	7.42	35.4
	11/20/2024	0.327	67.8	12	475	<0.150	7.42	34.9
	04/22/2025	0.349	65.4	12.6	472	0.151	7.2	33.1
MW-109D	3/13/2017	0.288	46.2	11.3	370	0.11	7.3	84
	4/3/2017	0.299	52	11.1	369	0.074(J)	7.3	87.4
	4/25/2017	0.315	46.1	11.1	390	0.0785(J)	7.2	77.1
	5/16/2017	0.307	47.9	10.6	397	0.13	6.5	78.9
	6/5/2017	0.332	49.4	10.8	383	0.0896(J)	7.3	79.5
	6/27/2017	0.321	46.1	10.5	392(B)	0.0997(BJ)	7	76.5
	7/18/2017	0.34(B)	52.4(B)	10.4	370	0.0876(J)	7.2	77.8
	8/7/2017	0.332	48.8	10.4	353	0.0784(J)	6.5	71.6
	8/28/2017	0.346	51.4	8.7	352	0.0513(J)	7.3	71.8
	3/27/2018	0.348	49.1	9.26	367	0.0867(J)	7.2	68.6
	8/14/2018	0.37	49.7	8.84	384	0.0711(J)	7.1	56.9
	3/5/2019	0.335	48.9	8.2	380	0.0863(J)	7.3	64
	8/28/2019	0.291	49.7	8.1	387	0.0823(J)	7.4	68
	3/27/2020	0.306	51.9	7.28	382	0.119	7.25	62.2

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	12/11/2020	0.294	52.3	7.38	375	0.106(J)	7.23	39.9
	6/19/2021	0.313	48.4	6.82	397	0.122(J)	n/a	56.6
	12/1/2021	0.305	49.8	6.62	367	<0.064	8.14	53.5
	06/14/2022	0.312	49.9	6.91	559	<0.150	7.97	49.3
	12/05/2022	0.308	50	6.45	371	<0.150	7.71	49.6
	06/08/2023	0.321	47.4	7.47	372	<0.150	3.84	49.9
	11/16/2023	0.312	47.6	6.02	357	0.188	7.80	43.6
	05/22/2024	0.312	48.5	6.15	361	<0.150	7.43	44.9
	11/21/2024	0.305	50.2	6.04	365	<0.150	7.43	45.9
	04/22/2025	0.319	49.2	<10.0	372	<1.50	7.23	<50.0
MW-110D	3/14/2017	0.344	42.9	5.84	301	0.129	7.5	50.7
	4/4/2017	0.298	44.8	6.51	327	0.107	7.6	48.5
	4/25/2017	0.302	40	6.74	332	0.0749(J)	7.6	38.9
	5/16/2017	0.294	42.3	6.38	318	0.11	7.5	34.3
	6/6/2017	0.33	42.7	6.73	330	0.0972(J)	7.3	34.7
	6/27/2017	0.304	40.2	6.26	351(B)	0.111	7.5	40.7
	7/18/2017	0.317(B)	45.3(B)	6.95	327	0.103	7.5	39.2
	8/8/2017	0.319	42.4	6.96	342	0.112	7.5	40.6
	8/29/2017	0.327	44	6.5	309	0.114	7.3	38.9
	3/26/2018	0.333	42.4	6.65	333	0.113	7.4	31.2
	8/14/2018	0.3	43.1	6.61	322	0.0709(J)	7.2	28.3
	3/6/2019	0.346	42.3	6.75	308	0.0952(J)	7.3	27.2
	8/27/2019	0.288	43.5	6.84	337	0.0895(J)	7.4	27
	3/25/2020	n/a	n/a	n/a	n/a	n/a	7.24	n/a
	4/8/2020	0.286	45.4	6.87	333	0.0806(J)	n/a	27.6
	12/8/2020	0.303	52.6	6.65	352	0.0698(J)	7.93	45.6
	8/19/2021	0.312	46.6	6.33	358	0.103(J)	n/a	42.1
	12/1/2021	0.305	47	6.34	337	<0.064	7.94	41.3
	06/13/2022	0.306	47	7.5	332	<0.150	8.28	40.5
	12/05/2022	0.306	47.7	6.34	354	<0.150	7.71	38.9
	06/06/2023	0.322	44.7	6.63	346	<0.150	6.92	40.3
	11/16/2023	0.312	42.7	6.23	333	<0.150	8.21	38.8
	05/22/2024	0.309	46.4	6.35	352	<0.150	7.63	39.2
	11/18/2024	0.3	47.4	6.26	336	<0.150	7.63	40.4
	04/29/2025	0.311	48.8	7.04	359	<0.150	7.21	42.3
MW-110S	1/25/2016	0.482	4.56	17.6	297	0.0812(J)	6.4	99.9
	4/12/2016	0.668	4.52	18.3	324	0.129	4.9	166
	7/12/2016	0.65(B)	3.93	13.2	343(B)	0.0519(J)	5.2	121
	10/5/2016	0.591	4.2	12.2	328(B)	0.041(J)	4.4	119
	1/24/2017	0.976	5.02	16	390(B)	0.225	4.8	141

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Entergy White Bluff Landfill CCR Database

	3/13/2017	1.01	5.15	12.9	375	0.146	4.8	139
	5/16/2017	0.879	3.89	12.1	333	0.156	4.5	140
	7/18/2017	0.88(B)	3.5(B)	12	342	0.119	4.2	174
	8/30/2017	0.92	4.5	9.16	333	<0.1	4.4	146
	3/27/2018	1.13	4.9	11.7	382	0.245	5	170
	8/15/2018	0.794	4.48	6.45	311	0.0304(J)	4	127
	3/6/2019	1.18	45.3	11.9	500	0.275	6.2	162
	8/27/2019	1.2	4.09	9.51	372	0.165	4.9	187
	3/27/2020	1.3	24.2	7.85	412	0.204	5.62	162
	12/2/2020	1.7	9.5	8.47	461	0.312	5.14	229
	8/19/2021	1.83	16.1	8.86	510	0.293	4.32	238
	11/30/2021	1.47	6.16	4.64(B)	337	<0.064	4.55	152
	06/13/2022	2.03	16.7	8.57	466	0.255	5.49	244
	12/06/2022	2.03	5.93	6.57	375	0.167	4.11	194
	06/07/2023	2.24	5.85	5.78	441	0.228	4.16	233
	11/15/2023	1.69	6.03	4.01	355	0.444	4.80	150
	05/22/2024	2.41	8.88	5.5	475	0.294	4.55	225
	11/18/2024	1.32	5.23	2.88	313	<0.150	4.55	149
	04/22/2025	2.47	10.5	5.91	483	0.228	4.17	241
MW-111S	1/25/2016	3.43	26.4	6.72	436	0.15	6	219
	4/12/2016	3.54	29.5	6.72	435	0.189	4.8	299
	7/12/2016	3.52	27.3	6.4	474(B)	0.151	4.1	230
	10/3/2016	3.74	25.7	6.36	435(B)	0.158	3.9	247
	1/24/2017	4.04	29.3	4.71	458(B)	0.218	4	282
	3/13/2017	3.81	30.6	4.78	485	0.175	4	238
	5/16/2017	3.64	29.7	5.03	466	0.203	4.1	241
	7/19/2017	3.72	30.7(B)	5.23	470	0.185	4	306
	8/30/2017	3.91	30.2	4.76	496	0.191	4.1	243
	3/27/2018	4.11	37.8	5.04	533	0.254	4.1	317
	8/14/2018	4.03	41	5.38	567	0.288	3.6	326
	3/7/2019	3.64	36.3	4.86	542	0.278	5.2	305
	8/29/2019	4.38	51.1	6.15	697	0.42	4	432
	3/25/2020	4.25	59	5.97	735	0.33	4.42	442
	12/2/2020	4.92	72.5	6.56	915	0.519	3.87	614
	8/19/2021	4.86	83.5	7.64	1030	0.604	4.32	649
	11/30/2021	5.82	110	7.93	1240	0.782	3.76	841
	06/14/2022	5.39	115	10.3	1230	0.748	4.05	804
	12/06/2022	6.26	112	11.3	1270	1.2	3.71	879
	06/07/2023	5.98	118	11.5	1270	0.85	3.98	854
	11/16/2023	6.67	117	12.1	1370	0.869	3.86	827
	05/20/2024	6.45	108	12.3	1270	0.957	4.1	756

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Entergy White Bluff Landfill CCR Database

	11/22/2024	7.1	101	<100	1280	<15.0	4.1	768
	04/22/2025	6.95	101	11.1	1200	<1.50	4.01	775
MW-112D	3/14/2017	0.203	9.86	2.68	108	0.136	7.2	9.04
	4/4/2017	0.158(J)	10.2	3.5	102	0.127	6.4	2.16(J)
	4/25/2017	0.177(J)	10.7	3.57	121	0.1	7	2.85(J)
	5/16/2017	0.161(J)	11	3.46	127	0.12	7.4	1.7(J)
	6/6/2017	0.189(J)	12.3	3.86	145	0.118	6.9	1.06(J)
	6/27/2017	0.185(J)	13.7	3.2	148(B)	0.097(J)	7.5	1.23(J)
	7/18/2017	0.19(BJ)	13.8(B)	3.69	137	0.101	7	1.09(J)
	8/8/2017	0.199(J)	16	3.85	147	0.0507(J)	6.5	0.757(J)
	8/29/2017	0.201	17	3.47	154	0.127	7	0.93(J)
	3/26/2018	0.239	24.5	4.12	190	0.113	7.1	0.675(J)
	5/30/2018	0.241(B)	24.4	n/a	202	n/a	7.5	n/a
	8/13/2018	0.275	29.2	4.27	203	0.0747(J)	6.8	<5
	3/6/2019	0.27	28.8	4.48	234	0.0936(J)	7.2	<5
	8/28/2019	0.248	30.8	4.63	227	0.086(J)	7.4	0.379(J)
	3/25/2020	n/a	n/a	n/a	n/a	n/a	7.38	n/a
	4/7/2020	0.246	32	4.85	243	0.079(J)	n/a	<0.594
	12/15/2020	0.261	35.4	4.39	226	0.0836(J)	6.83	4.57(J)
	8/19/2021	0.278	34.4	4.69(B)	292	0.117(J)	7.48	2.3(J)
	12/1/2021	0.27	35.4	5.14	275	<0.064	8.27	<0.594
	06/15/2022	0.278	37	6.49	270	<0.150	8.15	<5.00
	12/07/2022	0.278	39.3	5.8	302	<0.150	7.15	<5.00
	06/06/2023	0.287	39.5	6.05	308	<0.150	5.65	<5.00
	11/17/2023	0.286	41.1	<10.0	295	<1.50	7.57	<50.0
	05/23/2024	0.288	42.4	6.19	327	<0.150	7.48	<5.00
	11/22/2024	0.294	41.4	7.22	317	<0.150	7.49	5.08
	04/22/2025	0.291	43.2	6.43	326	<0.150	7.28	<5.00
MW-113D	3/14/2017	0.504	197	13.2	1150	<0.1	6.8	610
	4/4/2017	0.461	178	13.2	1080	0.0527(J)	6.9	587
	4/25/2017	0.481	182	13.4	1140	<0.1	7	562
	5/16/2017	0.448	161	13.2	1100	0.0863(J)	6.8	608
	6/6/2017	0.463	148	13.5	1130	0.0512(J)	6.8	615
	6/27/2017	0.497	191	13.4	1130	0.0676(J)	6.7	694
	7/18/2017	0.441(B)	100(B)	13.7	1060	0.0507(J)	6.9	607
	8/8/2017	0.482	183	13.3	974	<0.1	6.8	589
	8/29/2017	0.494	179	13.3	1180	<0.1	6.9	601
	3/26/2018	0.534	180	13.4	1050	<0.1	6.6	628
	8/14/2018	0.471	172	13.3	1060	0.0226(J)	6.5	607
	3/6/2019	0.54	179	13.8	1160	0.0392(J)	6.8	659

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Entergy White Bluff Landfill CCR Database

	8/27/2019	0.469	194	14.6	1210	0.0281(J)	6.8	706
	3/25/2020	n/a	n/a	n/a	n/a	n/a	6.61	n/a
	4/7/2020	0.483	215	14.7	2450	<0.064	n/a	655
	12/11/2020	0.488	212	13.7	1250	0.0738(J)	6.77	680
	3/2/2021	n/a	n/a	14.1	n/a	n/a	n/a	n/a
	6/19/2021	0.488	200	13.8	1230	0.0734(J)	n/a	672
	11/30/2021	0.482	197	14.2	1210	<0.064	6.85	637
	06/14/2022	0.484	198	14.4	1170	<0.150	6.97	609
	12/06/2022	0.479	200	14.1	1190	<0.150	6.76	528
	06/08/2023	0.503	184	14.1	1160	<0.150	6.47	653
	11/15/2023	0.492	189	14.7	1150	<0.150	7.30	590
	05/23/2024	0.491	207	13.6	1090	<0.150	7.05	608
	11/21/2024	0.483	202	11.9	1170	<1.50	7.05	640
	04/30/2025	0.503	198	15.6	1200	0.323	6.85	736
MW-114D	3/14/2017	0.337	43.5	6.89	300	<0.1	7.5	32.8
	4/4/2017	0.284	42.5	7.53	273	0.0761(J)	7.5	29.4
	4/26/2017	0.272	39.7	7.91	277	0.0597(J)	7.3	26.3
	5/16/2017	0.264	42.5	7.73	280	0.0923(J)	7.6	21.7
	6/6/2017	0.26	43.3	8.15	270	0.0493(J)	7.2	22.2
	6/27/2017	0.263	40.5	8.97	282(B)	0.061(J)	7.6	23
	7/18/2017	0.276(B)	45.3(B)	8.16	268	0.0836(J)	7.3	14.3
	8/8/2017	0.275	44.6	7.93	284	0.094(J)	7.2	15.8
	8/29/2017	0.286	40.9	7.48	272	<0.1	7.4	21.8
	3/26/2018	0.264	42	7.76	278	0.1	7.4	12.8
	8/14/2018	0.231	46.6	7.79	282	0.0572(J)	6.5	9.17
	3/6/2019	0.274	44.8	8.02	282	0.0762(J)	7.5	11.8
	8/28/2019	0.248	50.1	7.71	278	0.109	7.5	8.81
	3/25/2020	n/a	n/a	n/a	n/a	n/a	7.43	n/a
	4/6/2020	0.256	48.4	8.32	278	0.0858(J)	n/a	17.4
	12/4/2020	0.283	56.8	7.87	361	<0.15*	7.97	36.2
	6/19/2021	0.284	51.7	7.49	353	0.0931(J)	7.45	37
	12/2/2021	0.276	53.4	7.71	331	<0.064	8	28.9
	06/15/2022	0.28	53.1	8.95	319	<0.150	8.7	29.7
	12/05/2022	0.277	52.1	7.46	331	<0.150	7.81	25.9
	06/08/2023	0.275	51.7	7.42	326	<0.150	7.11	29.6
	11/15/2023	0.278	50.4	7.25	315	<0.150	7.82	25.1
	05/23/2024	0.275	54.5	8.23	332	<0.150	7.43	35.5
	11/21/2024	0.27	54.5	7.17	321	<0.150	7.43	27.7
	04/22/2025	0.281	54.2	7.49	327	<0.150	7.36	27.1
MW-115D	3/14/2017	0.337	38.1	5.86	339	0.154	7.4	71.8

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Entergy White Bluff Landfill CCR Database

	4/4/2017	0.303	36.2	5.84	365	0.18	7.5	57.6
	4/25/2017	0.304	35	6.08	372	0.152	7.6	45.5
	5/16/2017	0.305	35.9	5.5	362	0.194	7.6	30.7
	6/6/2017	0.318	34.7	6.1	363	0.139	7.5	24.8
	6/27/2017	0.311	35.6	5.37	377(B)	0.187	7.7	10.7
	7/18/2017	0.318(B)	39.5(B)	5.87	362	0.17	7.4	8.28
	8/8/2017	0.325	39.8	5.86	389	0.179	7.5	7.92
	8/29/2017	0.344	39	5.57	377	0.158	7.2	6.25
	3/27/2018	0.346	46.9	5.45	374	0.172	7.3	1.31(J)
	8/14/2018	0.272	45.4	5.15	368	0.113	6.4	1.76(J)
	3/5/2019	0.35	46.1	5.15	371	0.126	7.2	2.12(J)
	8/28/2019	0.294	48.2	4.84	362	0.144	7.4	2.98(J)
	3/25/2020	0.341	48.3	5.03	361	0.122	7.37	3.08(J)
	12/15/2020	0.334	47.5	4.56	355	0.115(J)	6.88	3.43(J)
	6/19/2021	0.336	44.3	4.65	367	0.131(J)	7.45	2.75(J)
	12/1/2021	0.338	45.6	4.53	343	<0.064	8.26	<0.594
	06/14/2022	0.336	43.6	4.95	342	<0.150	8.62	<5.00
	12/05/2022	0.327	43.9	4.44	351	<0.150	7.78	5.25
	06/08/2023	0.346	43.5	4.63	342	<0.150	7.26	<5.00
	11/16/2023	0.335	40.8	4.25	325	<0.150	7.86	<5.00
	05/23/2024	0.339	42.7	5	352	<0.150	7.57	5.44
	11/21/2024	0.329	44.8	4.2	333	<0.150	7.57	<5.00
	04/22/2025	0.343	43.7	4.53	334	0.161	7.12	<5.00
MW-118D	3/13/2017	0.343	68.4	8.39	415	<0.1	7	82.2
	4/3/2017	0.316	76.8	9.42	433	0.0541(J)	7.2	106
	4/25/2017	0.328	77.1	9.43	459	<0.1	7	111
	5/16/2017	0.335	73.1	9.78	463	0.0404(J)	7.2	117
	6/6/2017	0.333	75.3	9.4	455	0.0488(J)	7.4	122
	6/27/2017	0.323	69.3	8.92	423(B)	<0.1	6.7	44.9
	7/18/2017	0.0391(BJ)	0.0571(BJ)	9.36	431	0.0445(J)	7	110
	8/8/2017	0.344	74.8	9.59	484	0.0689(J)	6.9	118
	8/29/2017	0.355	79	9.32	439	0.0162(J)	7.3	107
	3/26/2018	0.327	79.3	9.11	456	<0.1	7.2	126
	8/14/2018	0.337	74.1	9.11	459	0.0296(J)	6.8	109
	3/6/2019	0.335	76.5	9.33	454	0.0434(J)	7	112
	8/28/2019	0.274	78.6	9.01	438	0.0853(J)	7.1	118
	4/6/2020	n/a	n/a	n/a	n/a	n/a	6.75	n/a
	4/8/2020	0.301	80.6	9.48	448	<0.064	n/a	129
	12/9/2020	0.285	83.2	9.61	572	0.128(J)	6.77	166
	6/19/2021	0.218	76.4	7.62	597	0.305	6.96	157
	12/2/2021	0.292	103	8.41	642	0.156	7.38	222

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06/15/2022	0.285	91.2	9.45	585	<0.150	7.77	168
12/05/2022	0.277	88.6	8.27	557	<0.150	7.23	162
06/06/2023	0.276	90.6	8.27	566	<0.150	5.4	162
11/17/2023	0.291	91	8.23	504	<0.150	7.18	151
05/23/2024	0.274	89	9.1	535	<0.150	6.75	156
11/21/2024	0.274	86	8.17	502	<0.150	6.95	141
04/22/2025	0.289	83.2	<10.0	502	<1.50	7.08	133

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J: analyte was detected below the RDL; value is an estimate.

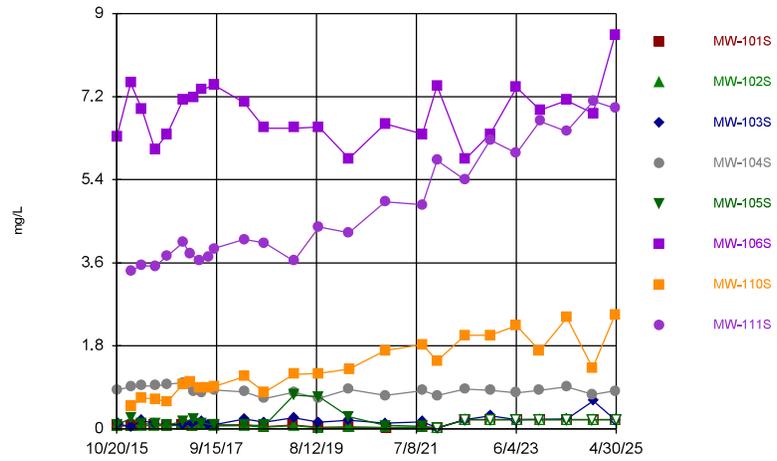
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APPENDIX 2

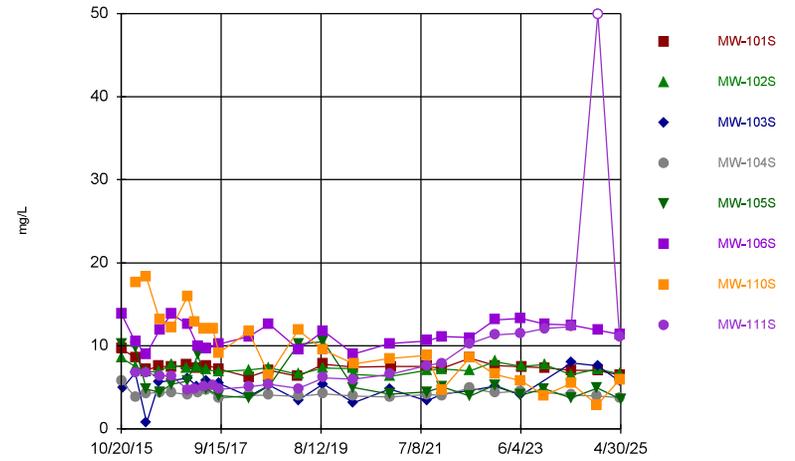
Time Series

Time Series



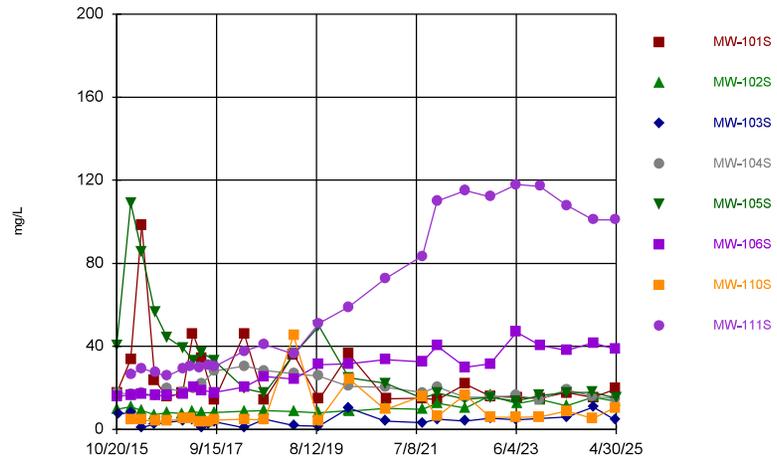
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White Bluff Plant Data: WBLF_Santias_CMF_2025

Time Series



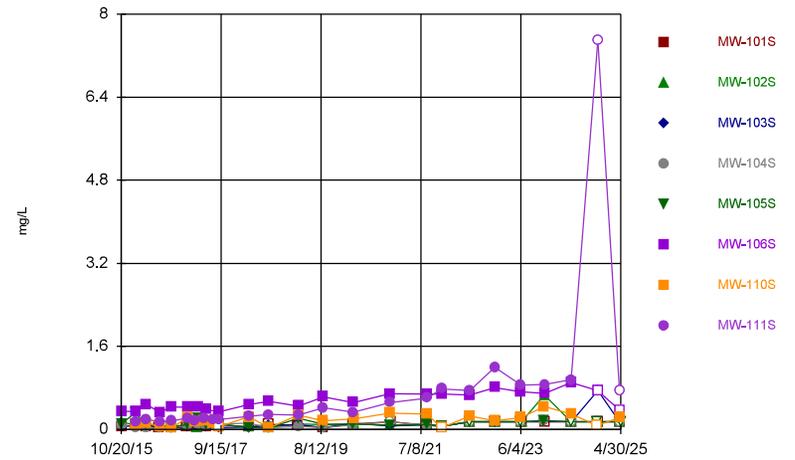
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White Bluff Plant Data: WBLF_Santias_CMF_2025

Time Series



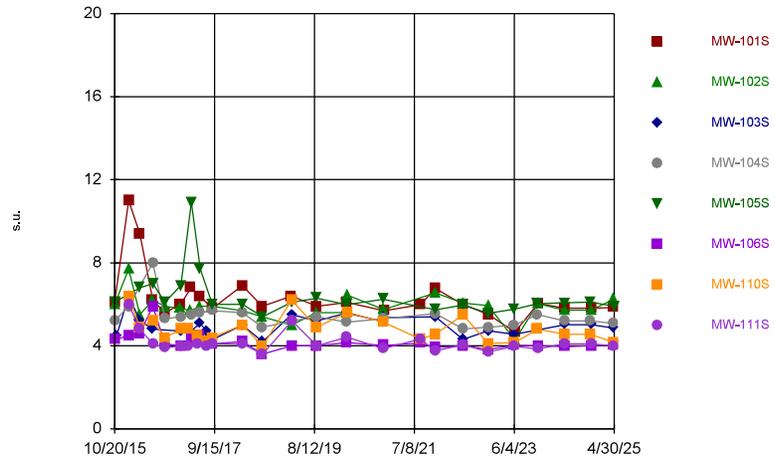
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White Bluff Plant Data: WBLF_Santias_CMF_2025

Time Series



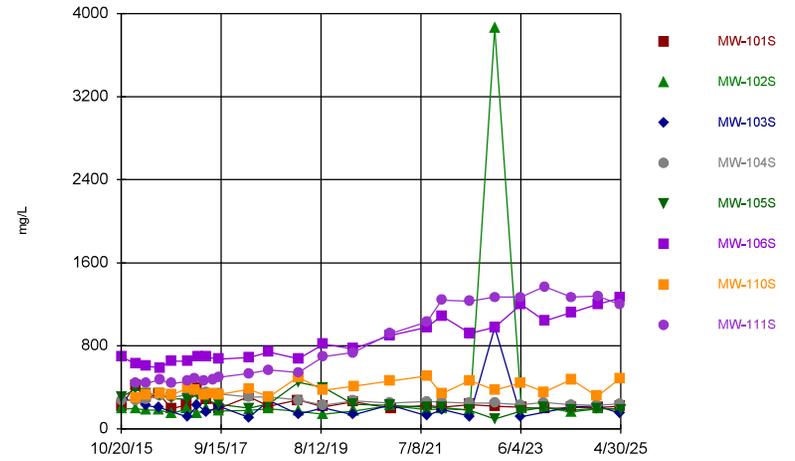
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Time Series



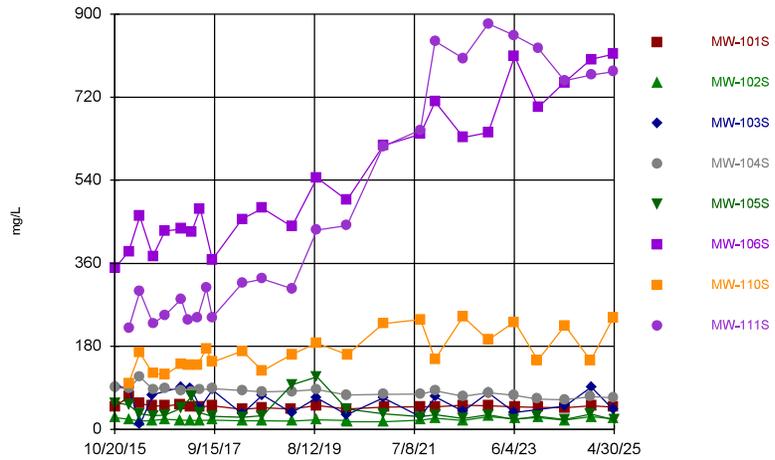
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White Bluff Plant Data: WBLF_Santias_CMF_2025

Time Series



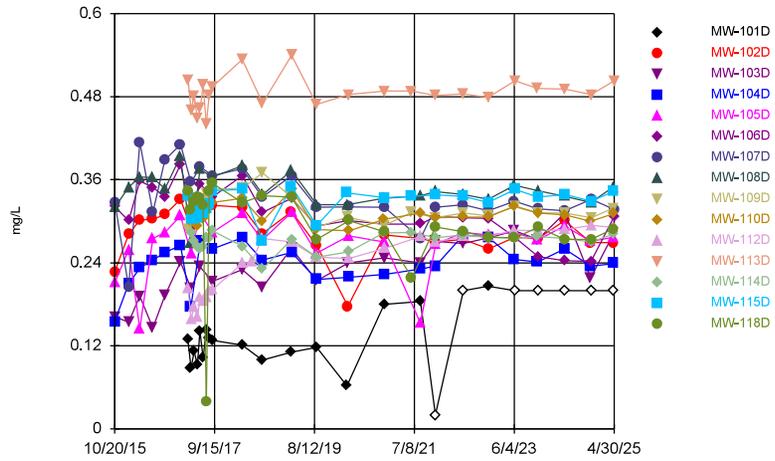
Constituent: TDS Analysis Run 7/6/2025 11:21 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Time Series



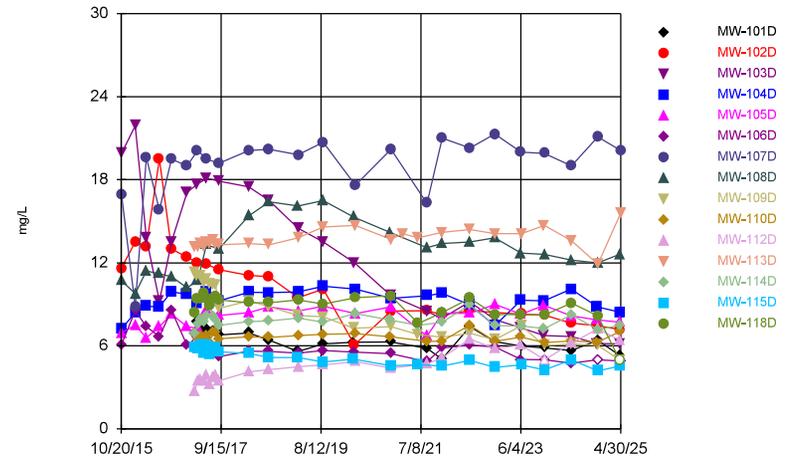
Constituent: Sulfate Analysis Run 7/6/2025 11:21 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Time Series



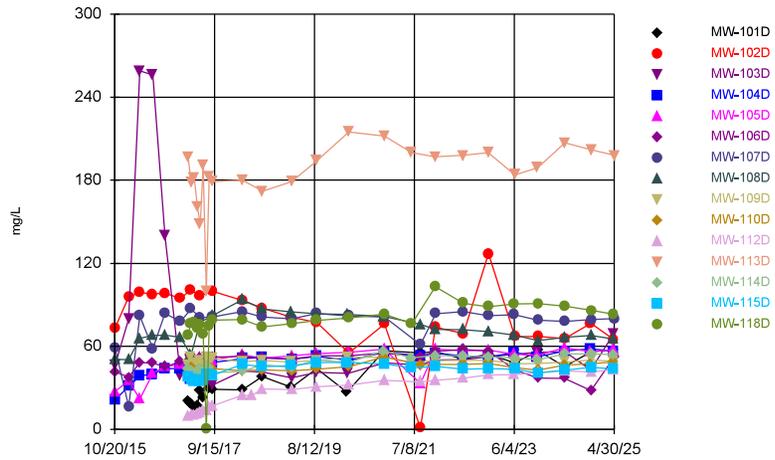
Constituent: Boron Analysis Run 7/6/2025 11:22 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Time Series



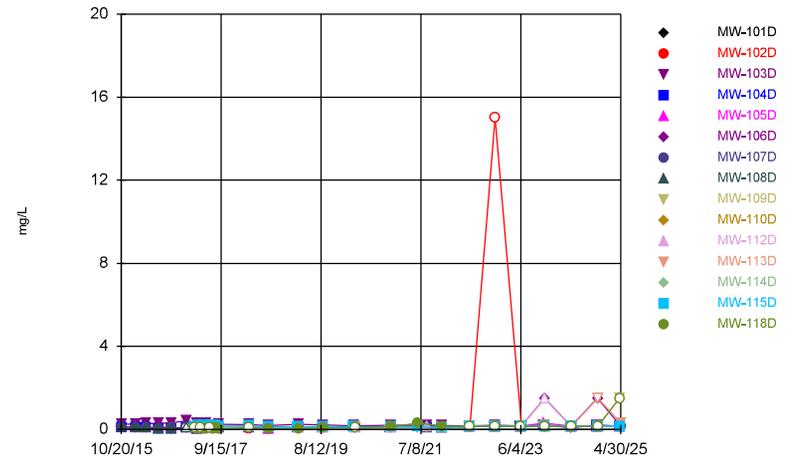
Constituent: Chloride Analysis Run 7/6/2025 11:22 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Time Series



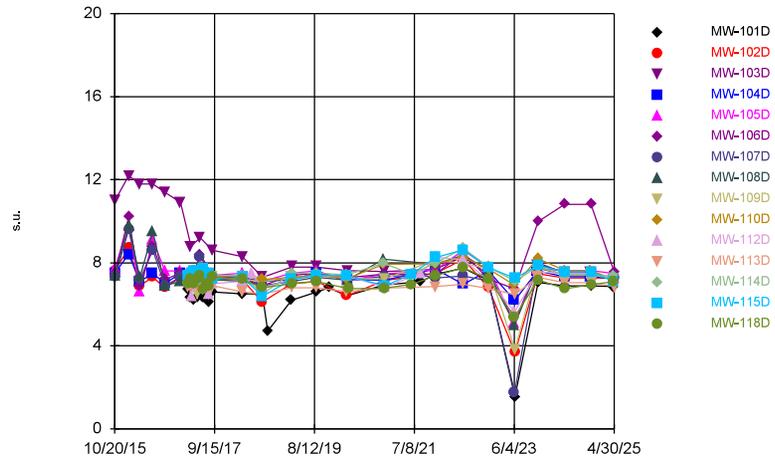
Constituent: Calcium Analysis Run 7/6/2025 11:22 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Time Series



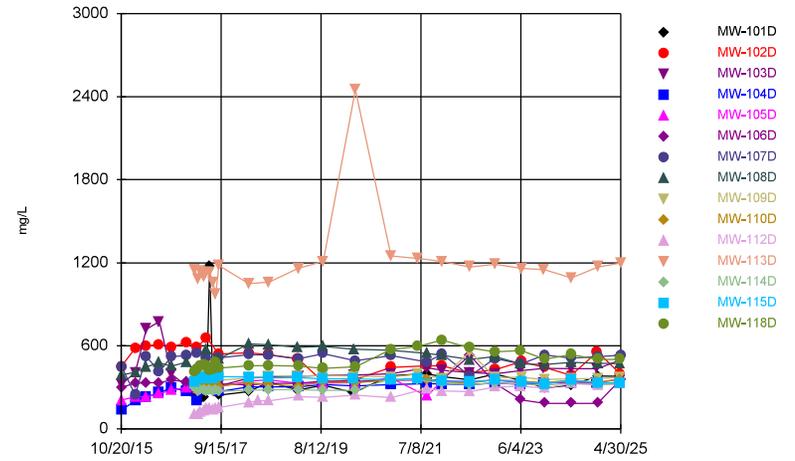
Constituent: Fluoride Analysis Run 7/6/2025 11:22 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Time Series



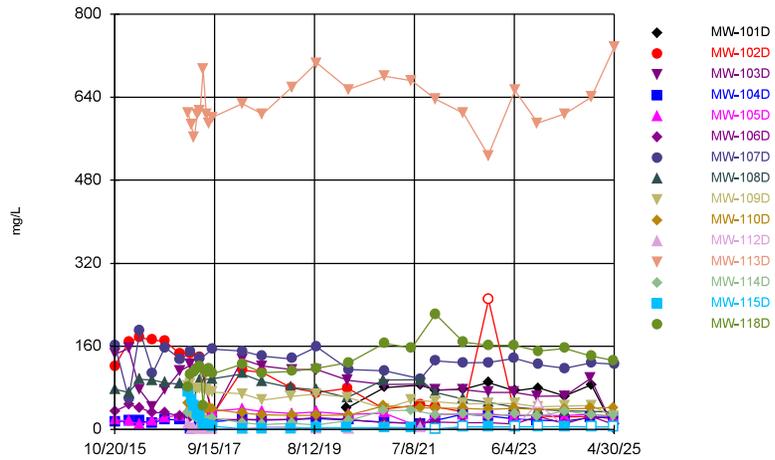
Constituent: pH Analysis Run 7/6/2025 11:22 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Time Series



Constituent: TDS Analysis Run 7/6/2025 11:22 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Time Series



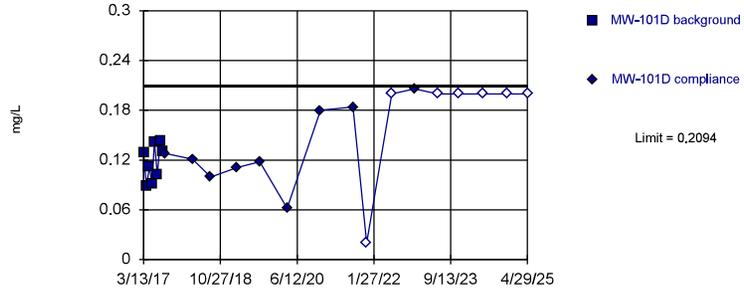
Constituent: Sulfate Analysis Run 7/6/2025 11:22 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

APPENDIX 3

Statistic Analysis - Prediction Limit Analysis

Within Limit

Prediction Limit Intrawell Parametric

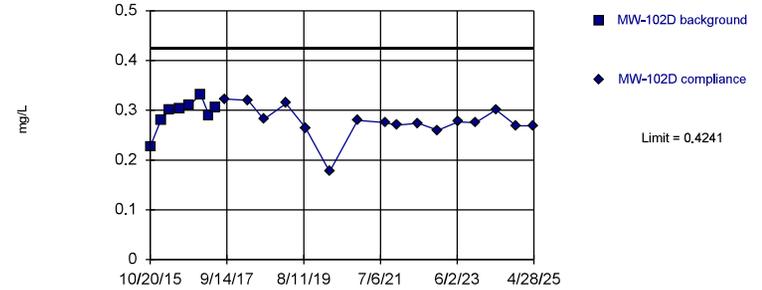


Background Data Summary: Mean=0.1174, Std. Dev.=0.0218, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9031, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 7/6/2025 11:29 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit Intrawell Parametric

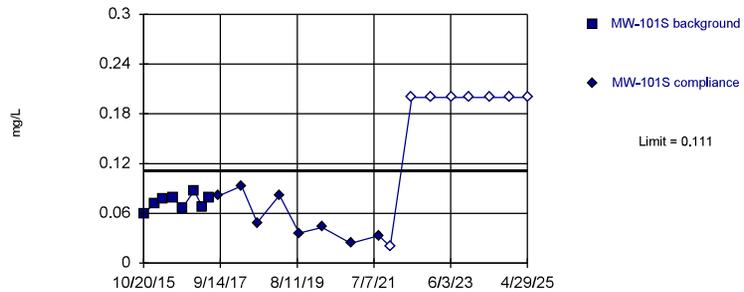


Background Data Summary: Mean=0.2939, Std. Dev.=0.03085, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.857, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 7/6/2025 11:29 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit Intrawell Parametric

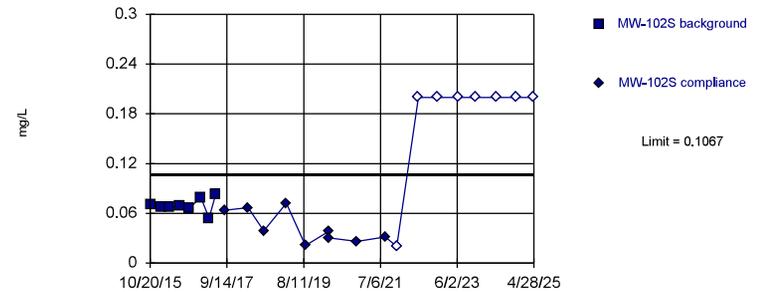


Background Data Summary: Mean=0.07369, Std. Dev.=0.008842, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9597, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 7/6/2025 11:29 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit Intrawell Parametric

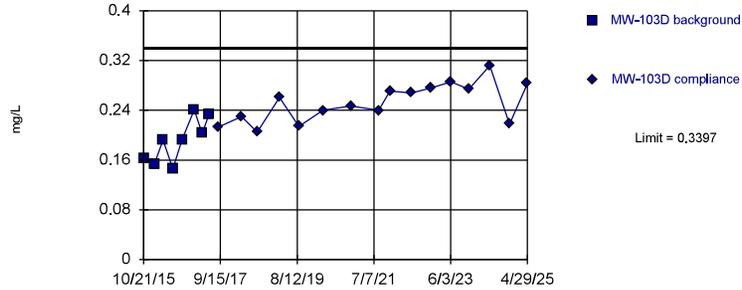


Background Data Summary: Mean=0.06946, Std. Dev.=0.008831, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9204, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 7/6/2025 11:29 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit Intrawell Parametric

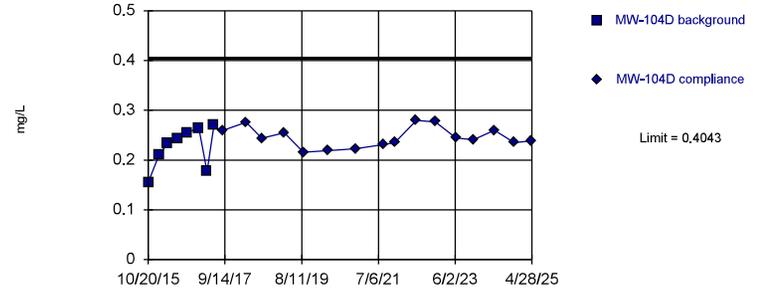


Background Data Summary: Mean=0.1906, Std. Dev.=0.03532, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9278, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 7/6/2025 11:29 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit Intrawell Parametric

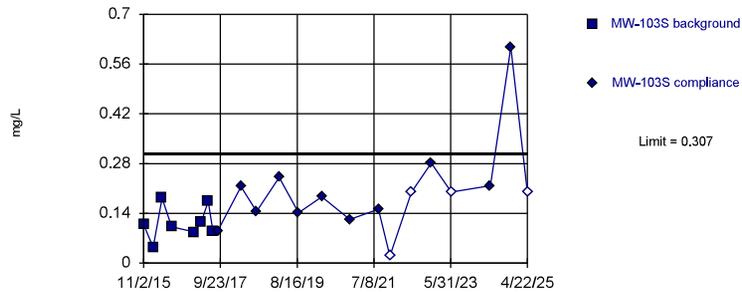


Background Data Summary: Mean=0.2263, Std. Dev.=0.04219, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9106, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 7/6/2025 11:29 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit Intrawell Parametric

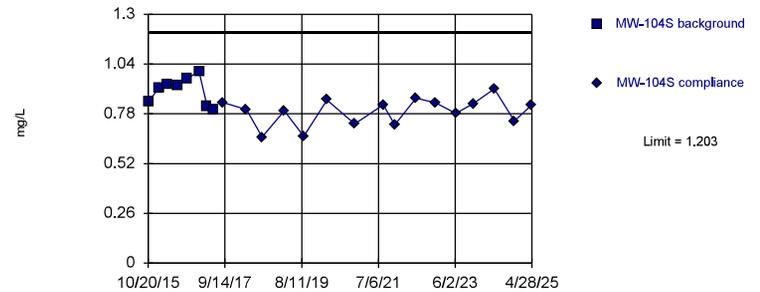


Background Data Summary: Mean=0.1129, Std. Dev.=0.04598, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9188, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 7/6/2025 11:29 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit Intrawell Parametric

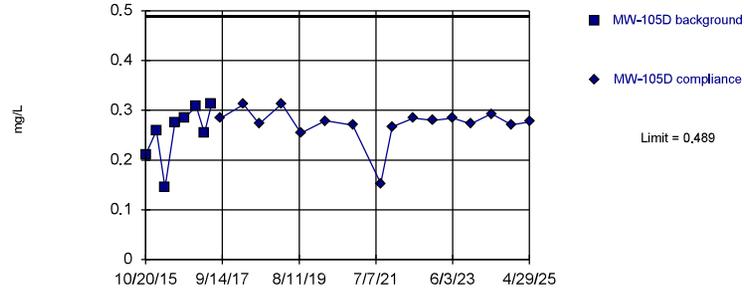


Background Data Summary: Mean=0.9018, Std. Dev.=0.07138, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9322, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 7/6/2025 11:29 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit
Intrawell Parametric

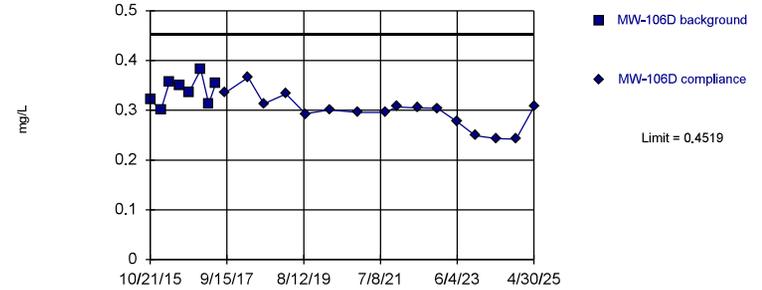


Background Data Summary: Mean=0.256, Std. Dev.=0.05522, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8908, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 7/6/2025 11:29 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit
Intrawell Parametric

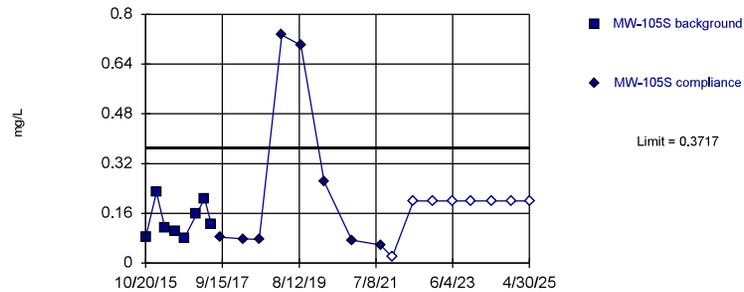


Background Data Summary: Mean=0.3391, Std. Dev.=0.02671, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9753, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 7/6/2025 11:29 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit
Intrawell Parametric

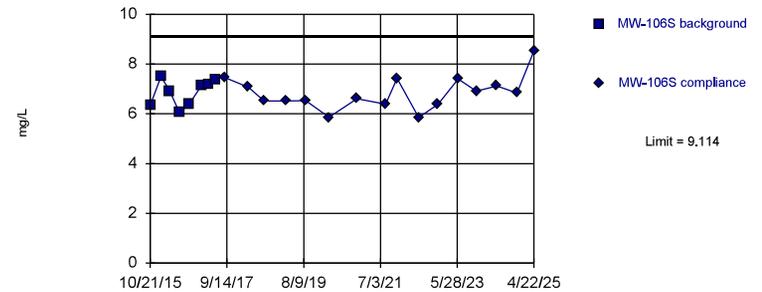


Background Data Summary: Mean=0.1365, Std. Dev.=0.05572, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8816, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 7/6/2025 11:29 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit
Intrawell Parametric

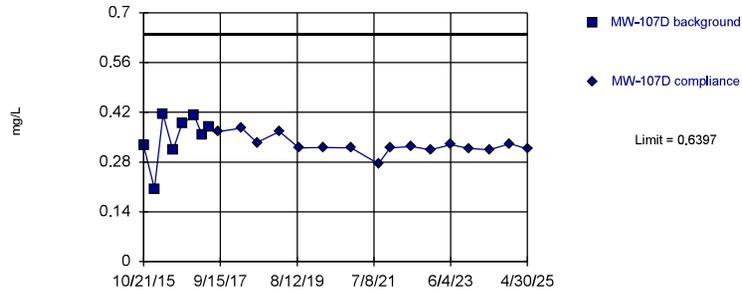


Background Data Summary: Mean=6.863, Std. Dev.=0.5335, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9108, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 7/6/2025 11:29 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit
Intrawell Parametric

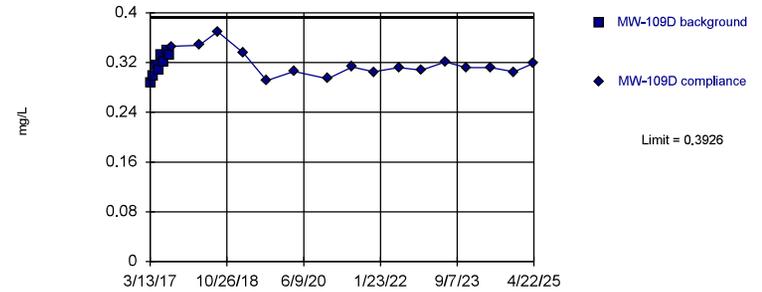


Background Data Summary: Mean=0.3491, Std. Dev.=0.06885, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8686, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 7/6/2025 11:30 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

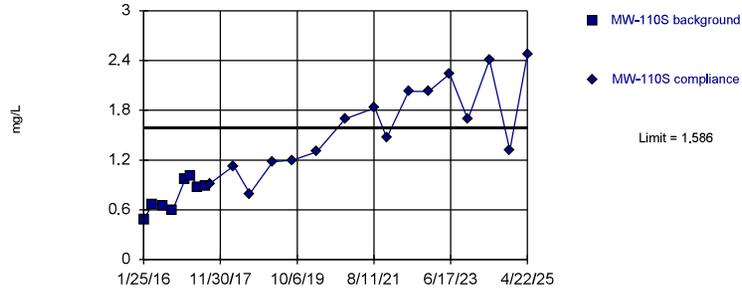
Within Limit

Prediction Limit
Intrawell Parametric



Exceeds Limit

Prediction Limit
Intrawell Parametric

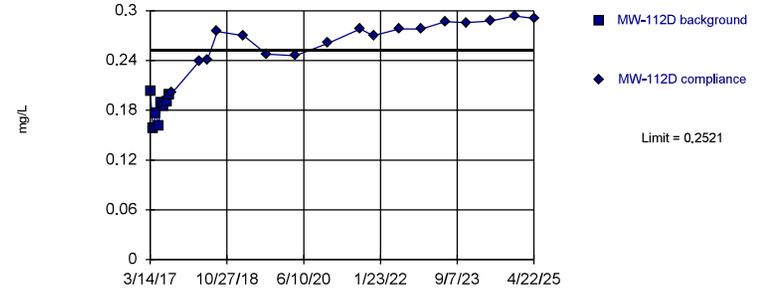


Background Data Summary: Mean=0.767, Std. Dev.=0.1941, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9226, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 7/6/2025 11:30 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Exceeds Limit

Prediction Limit
Intrawell Parametric

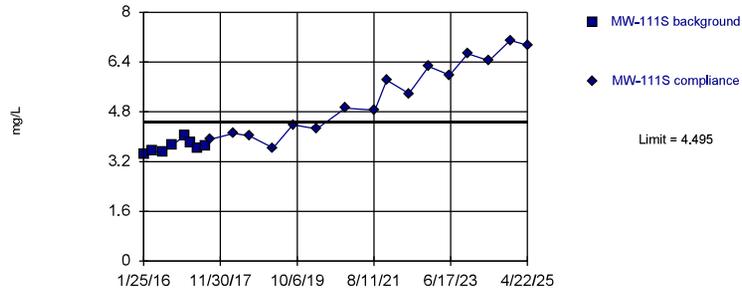


Background Data Summary: Mean=0.1828, Std. Dev.=0.01643, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9224, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 7/6/2025 11:30 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Exceeds Limit

Prediction Limit
Intrawell Parametric

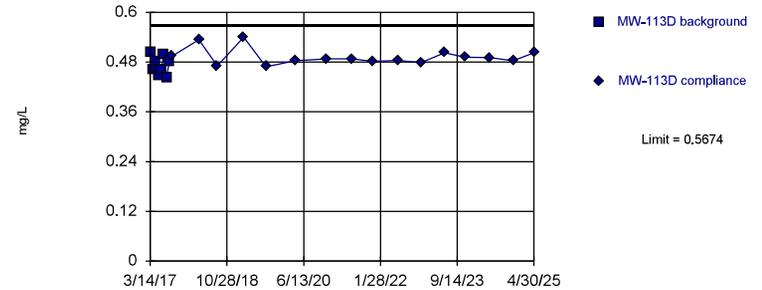


Background Data Summary: Mean=3.68, Std. Dev.=0.1931, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9589, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 7/6/2025 11:30 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit
Intrawell Parametric

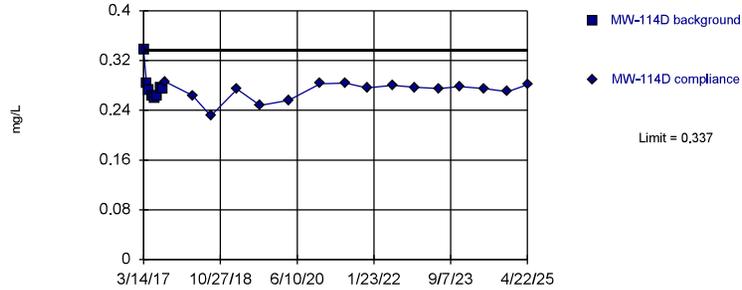


Background Data Summary: Mean=0.4721, Std. Dev.=0.02258, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9524, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 7/6/2025 11:30 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit
Intrawell Non-parametric

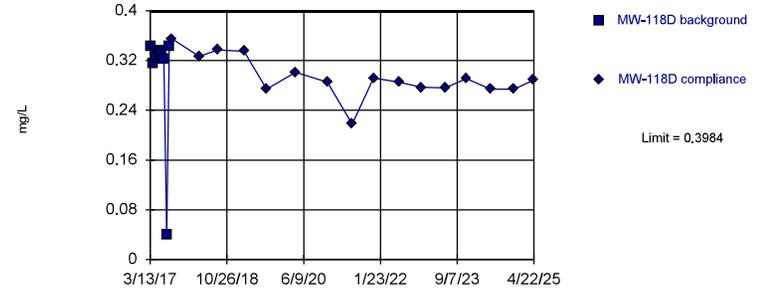


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 8 background values. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2). Seasonality was not detected with 95% confidence.

Constituent: Boron Analysis Run 7/6/2025 11:30 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit
Intrawell Parametric

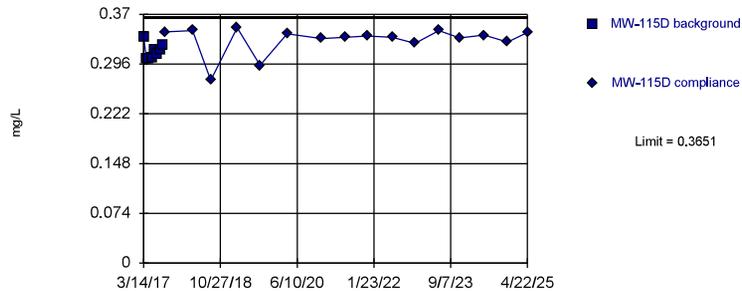


Background Data Summary (based on x*5 transformation): Mean=0.003543, Std. Dev.=0.00154, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7631, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 7/6/2025 11:30 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit
Intrawell Parametric

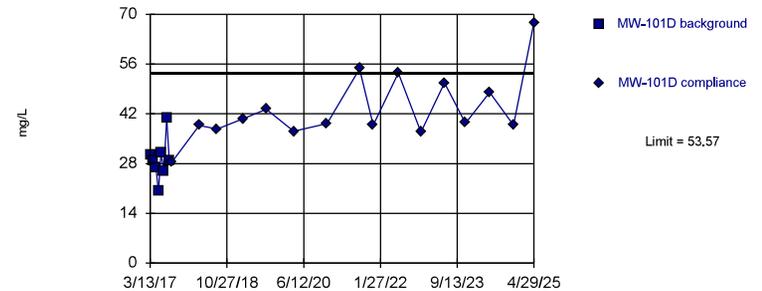


Background Data Summary: Mean=0.3151, Std. Dev.=0.01185, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9084, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 7/6/2025 11:30 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

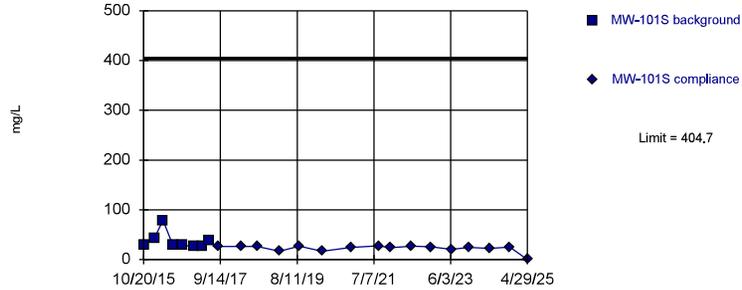
Exceeds Limit

Prediction Limit
Intrawell Parametric



Within Limit

Prediction Limit
Intrawell Parametric

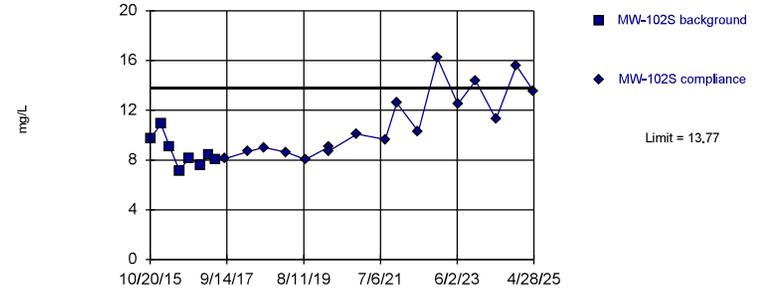


Background Data Summary (based on natural log transformation): Mean=3.391, Std. Dev.=0.6191, n=8. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7755, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Calcium Analysis Run 7/6/2025 11:30 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit
Intrawell Parametric

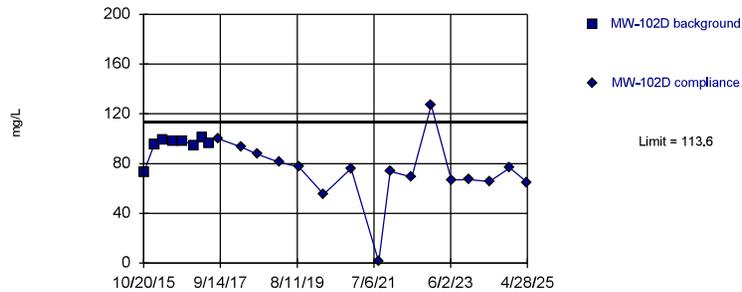


Background Data Summary: Mean=8.644, Std. Dev.=1.216, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9477, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Calcium Analysis Run 7/6/2025 11:30 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit
Intrawell Parametric

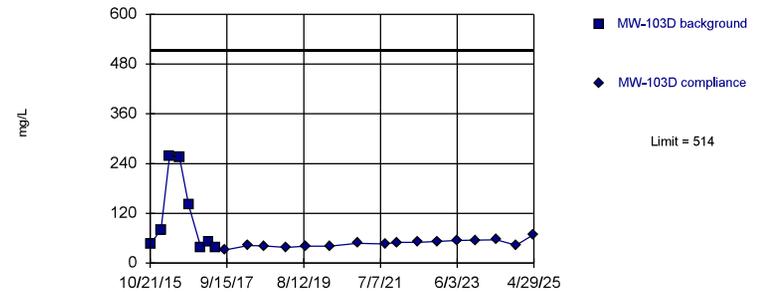


Background Data Summary (based on x*5 transformation): Mean=8.0e9, Std. Dev.=2.6e9, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7615, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Calcium Analysis Run 7/6/2025 11:30 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit
Intrawell Parametric

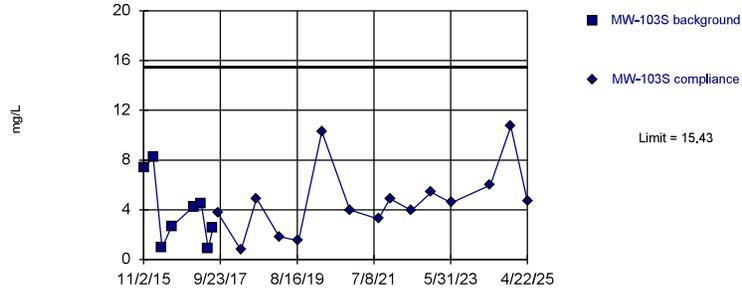


Background Data Summary: Mean=113.6, Std. Dev.=94.88, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7695, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Calcium Analysis Run 7/6/2025 11:30 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit Intrawell Parametric

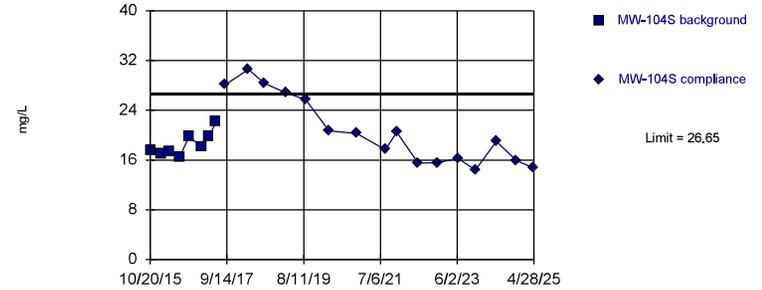


Background Data Summary: Mean=3.928, Std. Dev.=2.726, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9116, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Calcium Analysis Run 7/6/2025 11:30 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit Intrawell Parametric

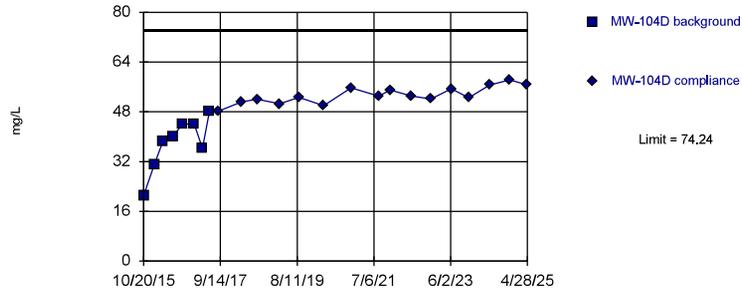


Background Data Summary: Mean=18.55, Std. Dev.=1.921, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9103, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Calcium Analysis Run 7/6/2025 11:30 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

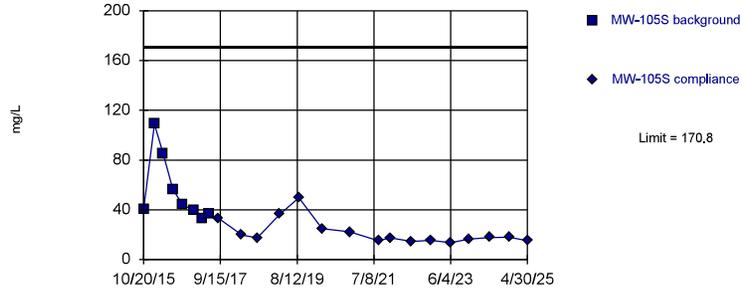
Within Limit

Prediction Limit Intrawell Parametric



Within Limit

Prediction Limit Intrawell Parametric

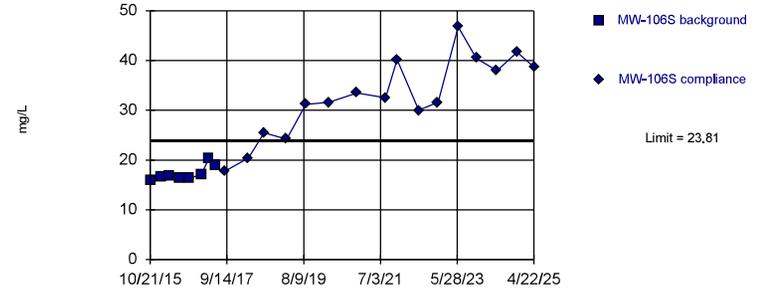


Background Data Summary: Mean=55.59, Std. Dev.=27.31, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.796, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Calcium Analysis Run 7/6/2025 11:30 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Exceeds Limit

Prediction Limit Intrawell Parametric

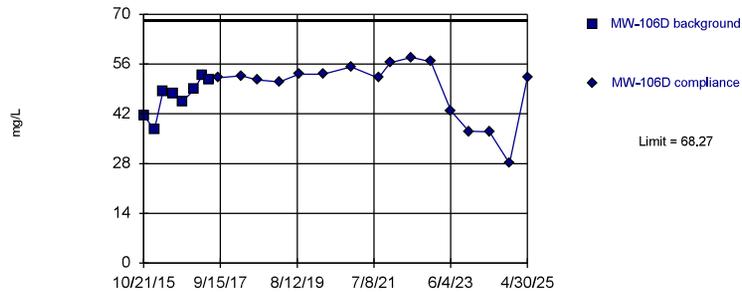


Background Data Summary: Mean=17.3, Std. Dev.=1.542, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7946, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Calcium Analysis Run 7/6/2025 11:30 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit Intrawell Parametric

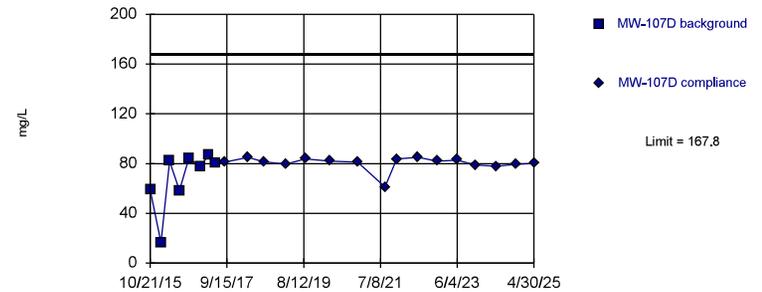


Background Data Summary: Mean=46.78, Std. Dev.=5.094, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.936, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Calcium Analysis Run 7/6/2025 11:30 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit Intrawell Parametric

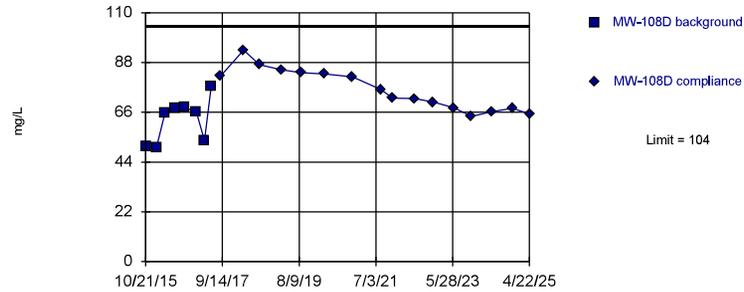


Background Data Summary: Mean=68.18, Std. Dev.=23.61, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7738, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Calcium Analysis Run 7/6/2025 11:30 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit
Intrawell Parametric

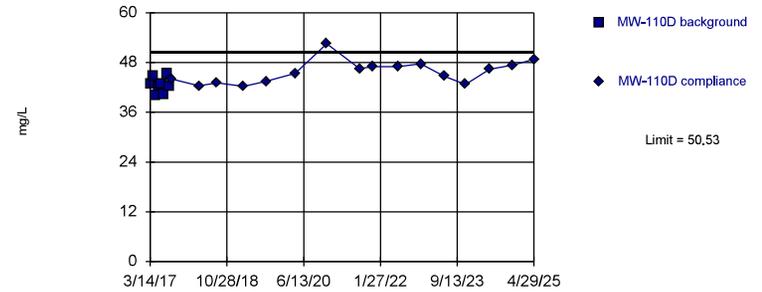


Background Data Summary: Mean=62.53, Std. Dev.=9.822, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8809, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Calcium Analysis Run 7/6/2025 11:30 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

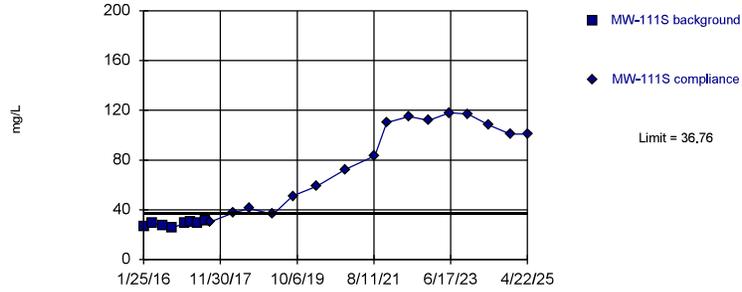
Within Limit

Prediction Limit
Intrawell Parametric



Exceeds Limit

Prediction Limit Intrawell Parametric

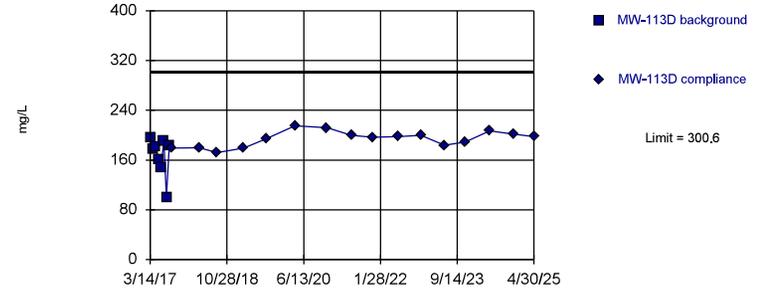


Background Data Summary: Mean=28.65, Std. Dev.=1.921, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8859, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Calcium Analysis Run 7/6/2025 11:30 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit Intrawell Parametric

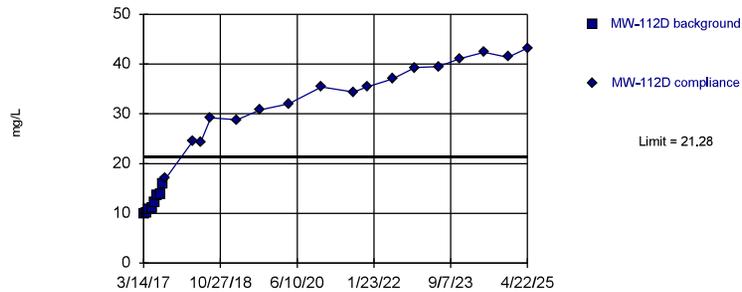


Background Data Summary: Mean=167.5, Std. Dev.=31.54, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8377, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Calcium Analysis Run 7/6/2025 11:30 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Exceeds Limit

Prediction Limit Intrawell Parametric

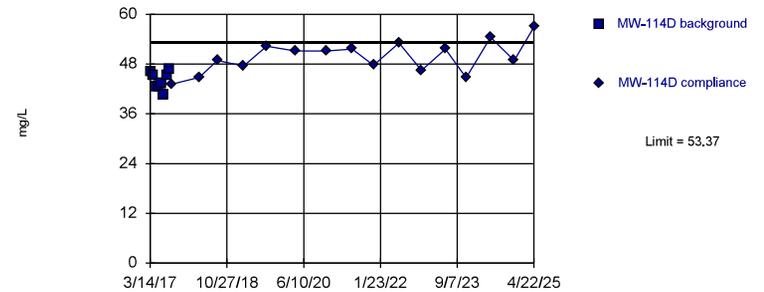


Background Data Summary: Mean=12.2, Std. Dev.=2.152, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9163, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Calcium Analysis Run 7/6/2025 11:30 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Exceeds Limit

Prediction Limit Intrawell Parametric

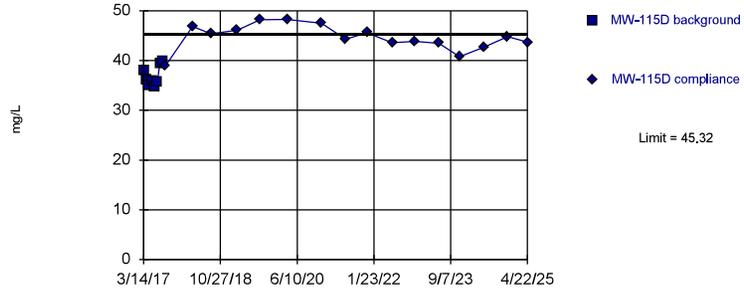


Background Data Summary: Mean=44.05, Std. Dev.=2.21, n=8. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9388, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Calcium Analysis Run 7/6/2025 11:30 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit Intrawell Parametric

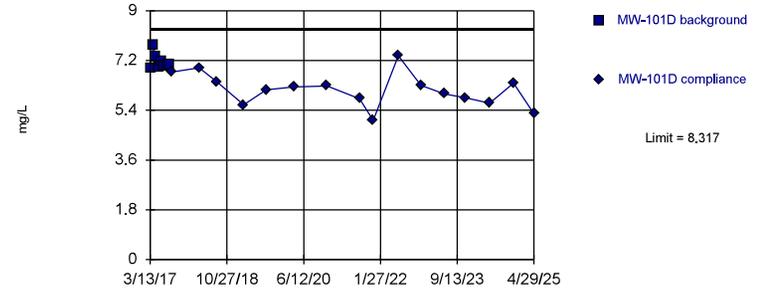


Background Data Summary: Mean=36.85, Std. Dev.=2.008, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8728, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Calcium Analysis Run 7/6/2025 11:30 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

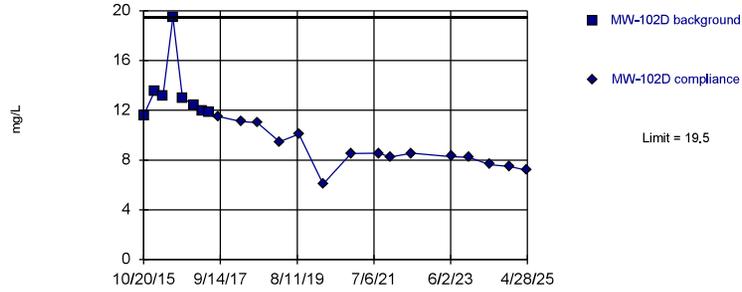
Within Limit

Prediction Limit Intrawell Parametric



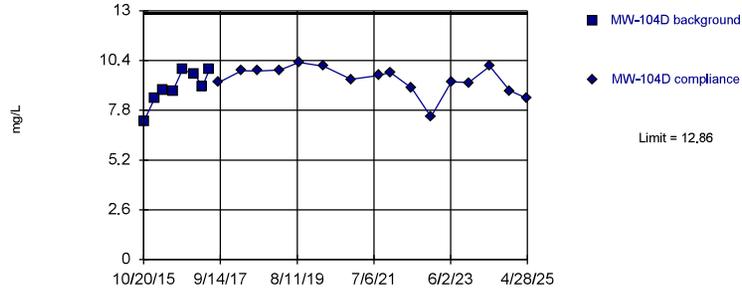
Within Limit

Prediction Limit
Intrawell Non-parametric



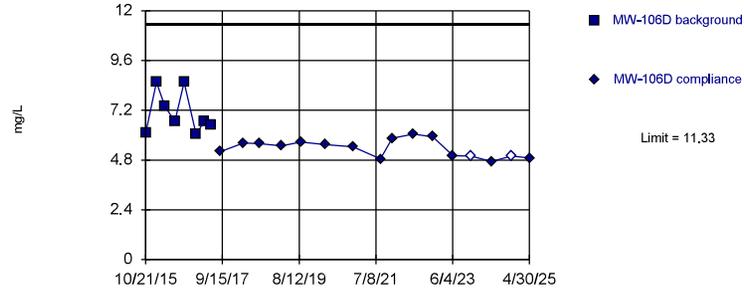
Within Limit

Prediction Limit Intrawell Parametric



Within Limit

Prediction Limit
 Intrawell Parametric

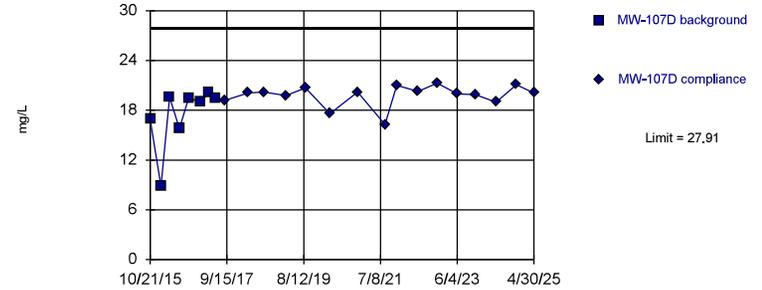


Background Data Summary: Mean=7.06, Std. Dev.=1.012, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8449, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Chloride Analysis Run 7/6/2025 11:30 PM
 White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit
 Intrawell Parametric

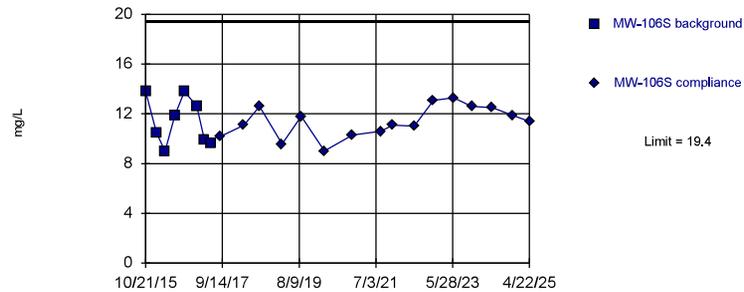


Background Data Summary (based on square transformation): Mean=315.4, Std. Dev.=109.9, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7832, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Chloride Analysis Run 7/6/2025 11:30 PM
 White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit
 Intrawell Parametric

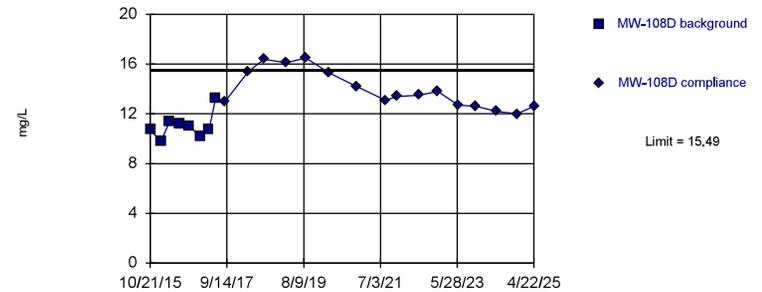


Background Data Summary: Mean=11.39, Std. Dev.=1.898, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9068, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Chloride Analysis Run 7/6/2025 11:30 PM
 White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit
 Intrawell Parametric

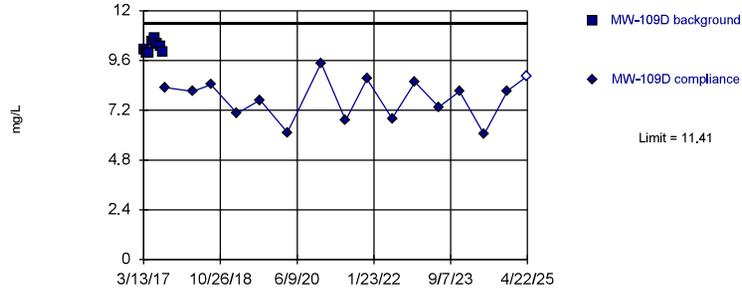


Background Data Summary: Mean=11.03, Std. Dev.=1.057, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8785, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Chloride Analysis Run 7/6/2025 11:30 PM
 White Bluff Plant Data: WBLF_Santias_CMF_2025

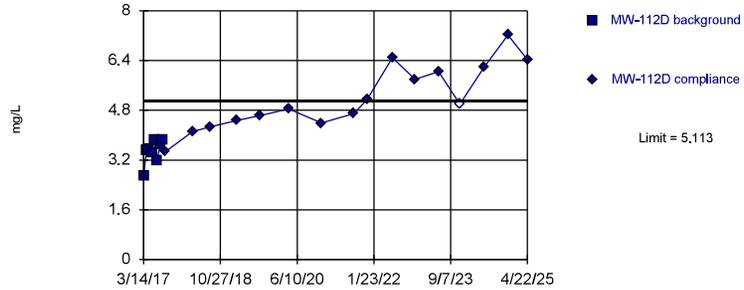
Within Limit

Prediction Limit Intrawell Parametric



Exceeds Limit

Prediction Limit
 Intrawell Parametric

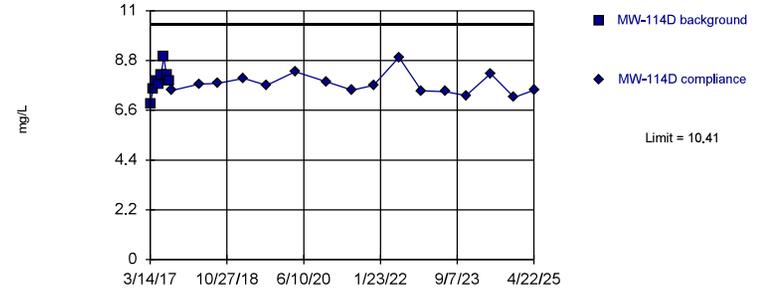


Background Data Summary: Mean=3.476, Std. Dev.=0.3878, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8825, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Chloride Analysis Run 7/6/2025 11:31 PM
 White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit
 Intrawell Parametric

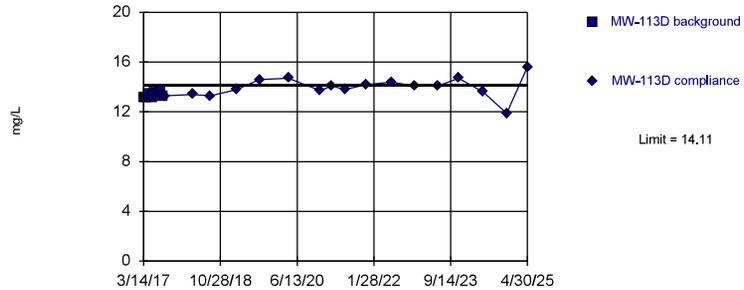


Background Data Summary: Mean=7.909, Std. Dev.=0.593, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9542, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Chloride Analysis Run 7/6/2025 11:31 PM
 White Bluff Plant Data: WBLF_Santias_CMF_2025

Exceeds Limit

Prediction Limit
 Intrawell Parametric

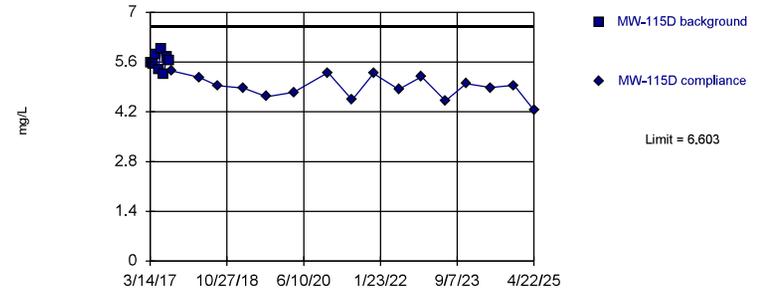


Background Data Summary: Mean=13.36, Std. Dev.=0.1768, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.877, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Chloride Analysis Run 7/6/2025 11:31 PM
 White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit
 Intrawell Parametric

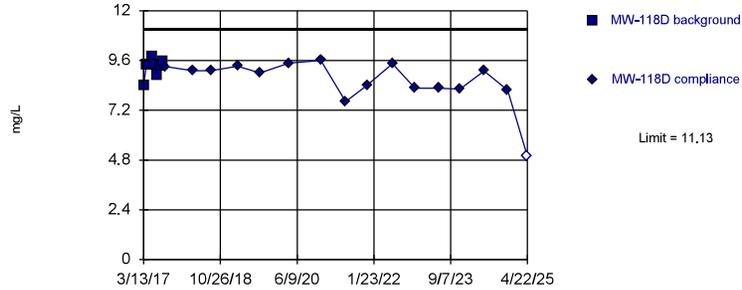


Background Data Summary: Mean=5.621, Std. Dev.=0.2327, n=8. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9861, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Chloride Analysis Run 7/6/2025 11:31 PM
 White Bluff Plant Data: WBLF_Santias_CMF_2025

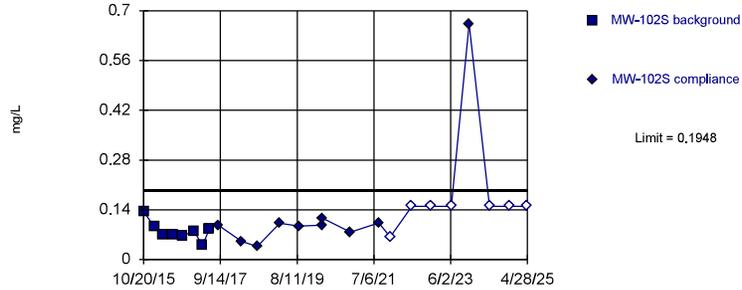
Within Limit

Prediction Limit
Intrawell Parametric



Within Limit

Prediction Limit Intrawell Parametric

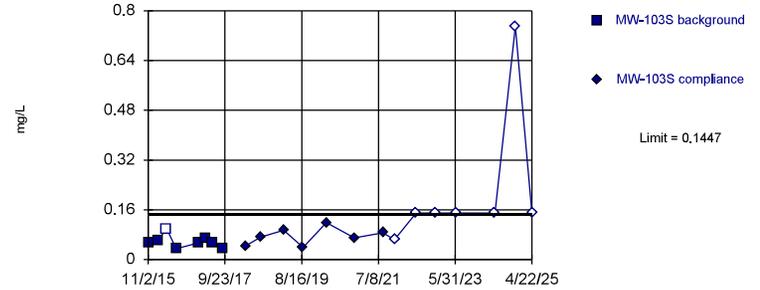


Background Data Summary: Mean=0.07966, Std. Dev.=0.02727, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9108, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Fluoride Analysis Run 7/6/2025 11:31 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit Intrawell Parametric

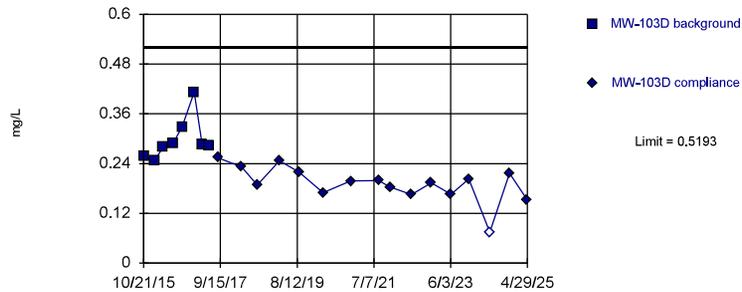


Background Data Summary: Mean=0.05781, Std. Dev.=0.02059, n=8, 12.5% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.891, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Fluoride Analysis Run 7/6/2025 11:31 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit Intrawell Parametric

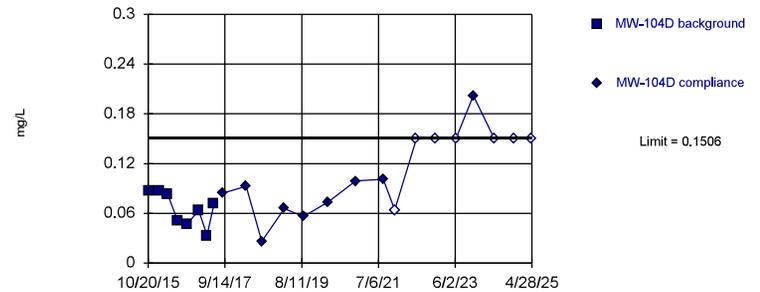


Background Data Summary: Mean=0.2978, Std. Dev.=0.0525, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8082, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Fluoride Analysis Run 7/6/2025 11:31 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit Intrawell Parametric

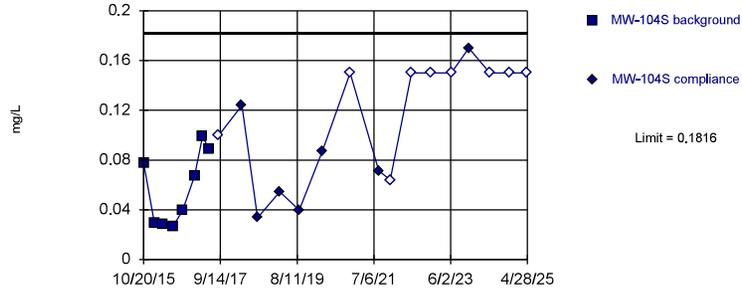


Background Data Summary: Mean=0.06551, Std. Dev.=0.02017, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9152, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Fluoride Analysis Run 7/6/2025 11:31 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit Intrawell Parametric

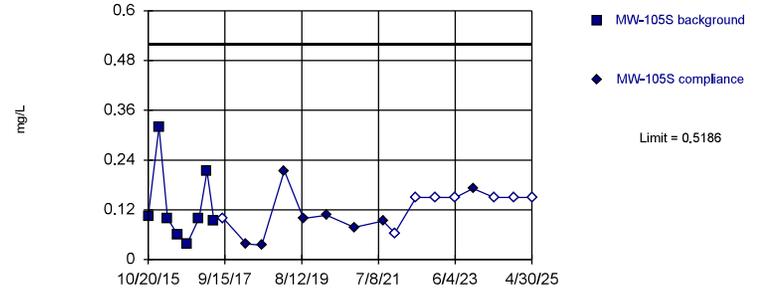


Background Data Summary: Mean=0.05696, Std. Dev.=0.02954, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8672, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Fluoride Analysis Run 7/6/2025 11:31 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit Intrawell Parametric

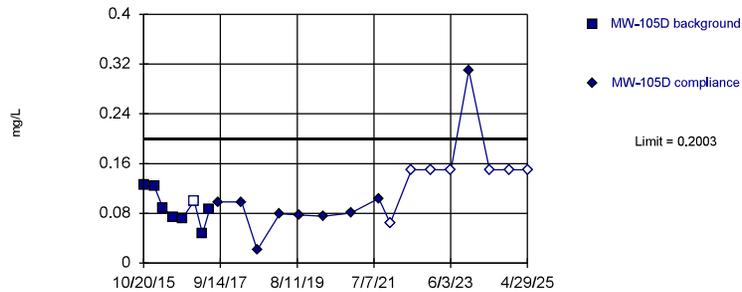


Background Data Summary: Mean=0.1282, Std. Dev.=0.09251, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8133, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Fluoride Analysis Run 7/6/2025 11:31 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit Intrawell Parametric

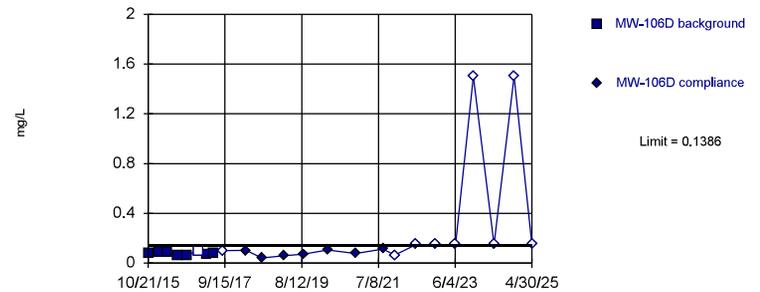


Background Data Summary: Mean=0.08938, Std. Dev.=0.02629, n=8, 12.5% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9513, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Fluoride Analysis Run 7/6/2025 11:31 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit Intrawell Parametric

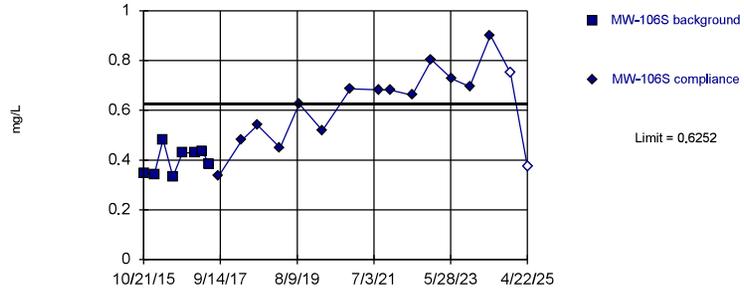


Background Data Summary: Mean=0.07896, Std. Dev.=0.01414, n=8, 12.5% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9575, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Fluoride Analysis Run 7/6/2025 11:31 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit Intrawell Parametric

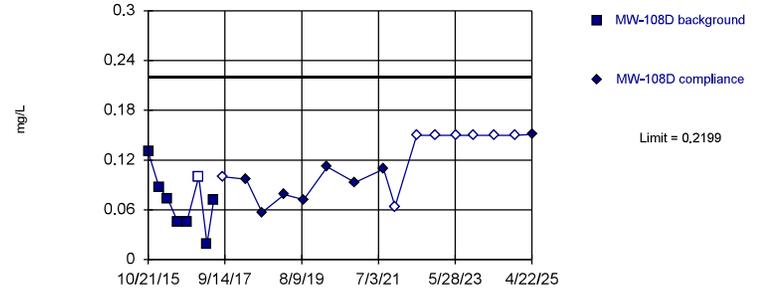


Background Data Summary: Mean=0.3978, Std. Dev.=0.0539, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9095, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Fluoride Analysis Run 7/6/2025 11:31 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit Intrawell Parametric

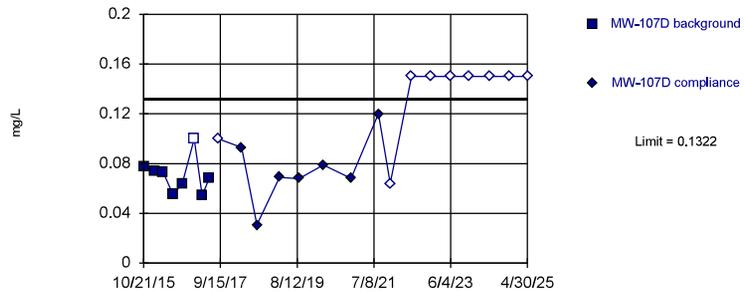


Background Data Summary: Mean=0.07159, Std. Dev.=0.03515, n=8, 12.5% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9821, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Fluoride Analysis Run 7/6/2025 11:31 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit Intrawell Parametric

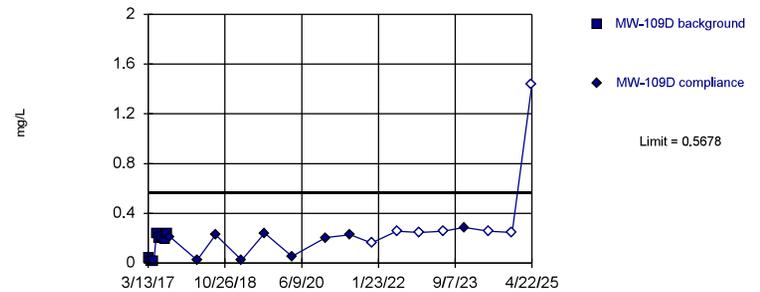


Background Data Summary: Mean=0.07083, Std. Dev.=0.01455, n=8, 12.5% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9117, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Fluoride Analysis Run 7/6/2025 11:31 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit Intrawell Parametric

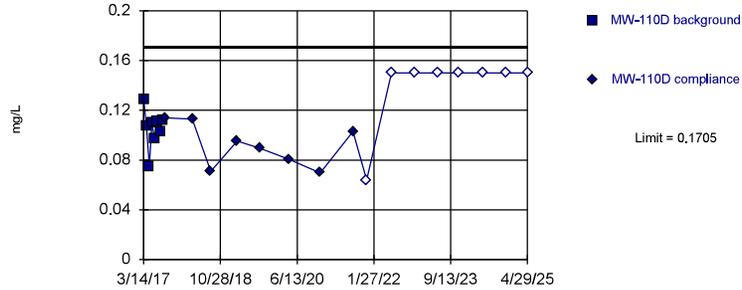


Background Data Summary: Mean=0.1429, Std. Dev.=0.1007, n=8. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7851, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Fluoride Analysis Run 7/6/2025 11:31 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit Intrawell Parametric

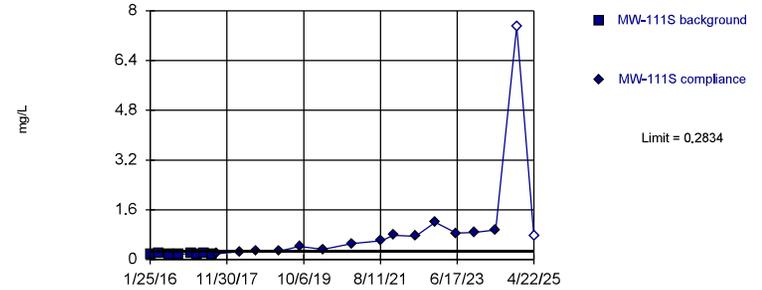


Background Data Summary: Mean=0.1055, Std. Dev.=0.01539, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9163, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Fluoride Analysis Run 7/6/2025 11:31 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit Intrawell Parametric

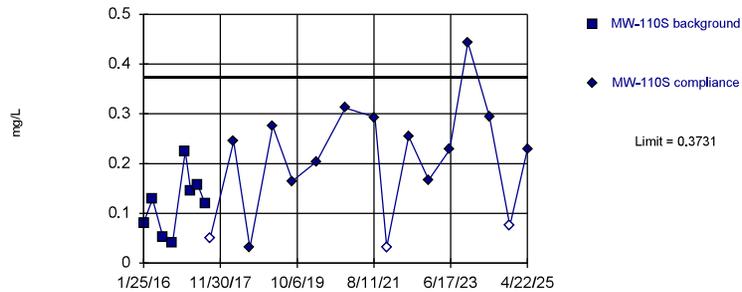


Background Data Summary: Mean=0.1786, Std. Dev.=0.02482, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9368, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Fluoride Analysis Run 7/6/2025 11:31 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit Intrawell Parametric

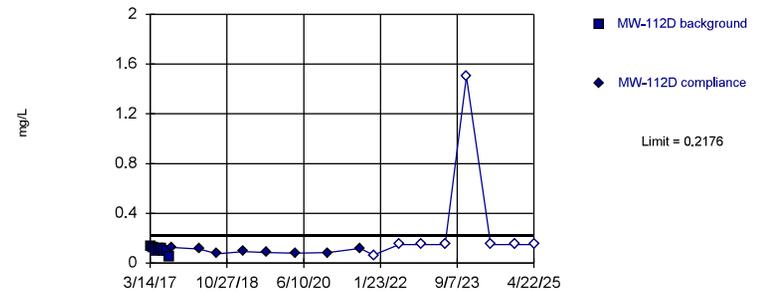


Background Data Summary: Mean=0.1186, Std. Dev.=0.06029, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9581, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Fluoride Analysis Run 7/6/2025 11:31 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit Intrawell Parametric

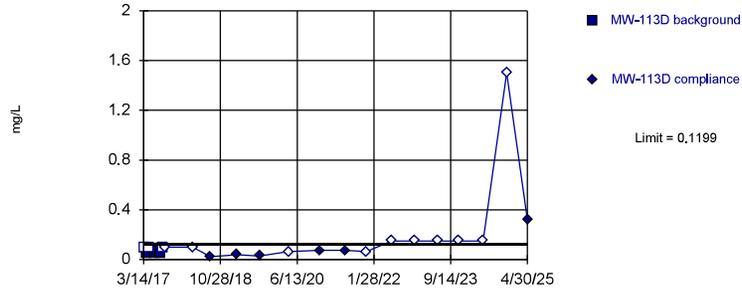


Background Data Summary: Mean=0.1062, Std. Dev.=0.02641, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8805, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Fluoride Analysis Run 7/6/2025 11:31 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Exceeds Limit

Prediction Limit
Intrawell Parametric

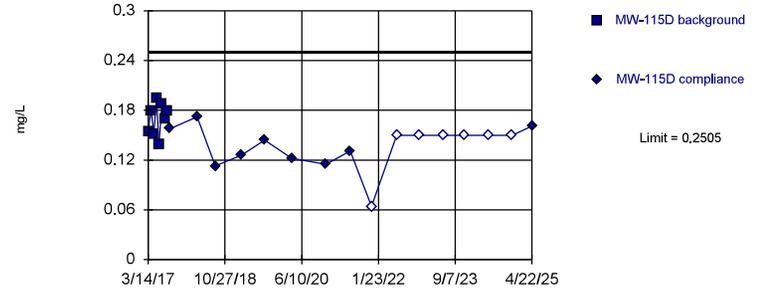


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.0617, Std. Dev.=0.0138, n=8, 37.5% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8043, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Fluoride Analysis Run 7/6/2025 11:31 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit
Intrawell Parametric

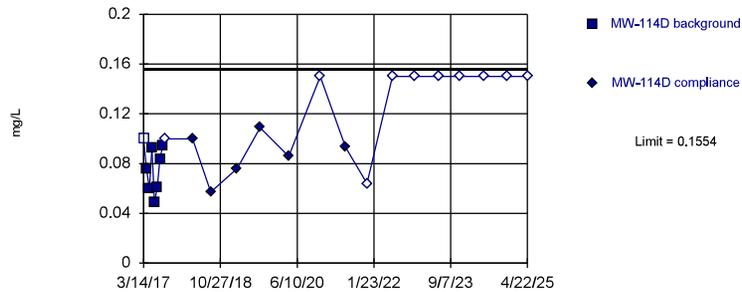


Background Data Summary: Mean=0.1694, Std. Dev.=0.01921, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9443, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Fluoride Analysis Run 7/6/2025 11:31 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit
Intrawell Parametric

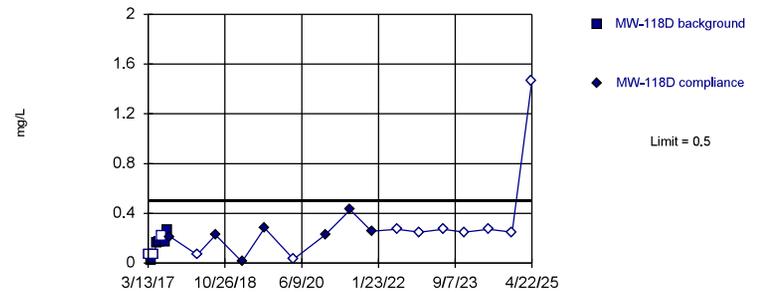


Background Data Summary: Mean=0.077, Std. Dev.=0.01859, n=8, 12.5% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9293, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Fluoride Analysis Run 7/6/2025 11:31 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit
Intrawell Parametric

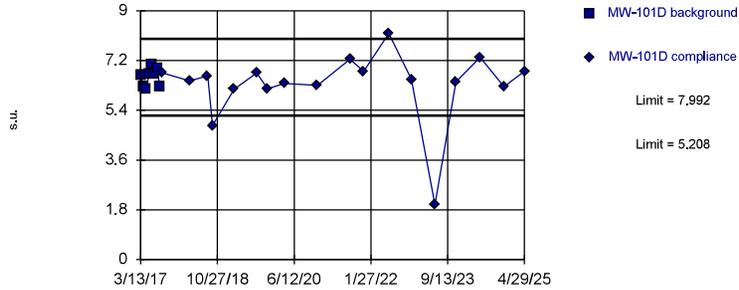


Background Data Summary: Mean=0.1433, Std. Dev.=0.08452, n=8, 37.5% NDs. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9369, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Fluoride Analysis Run 7/6/2025 11:31 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limits

Prediction Limit
Intrawell Parametric

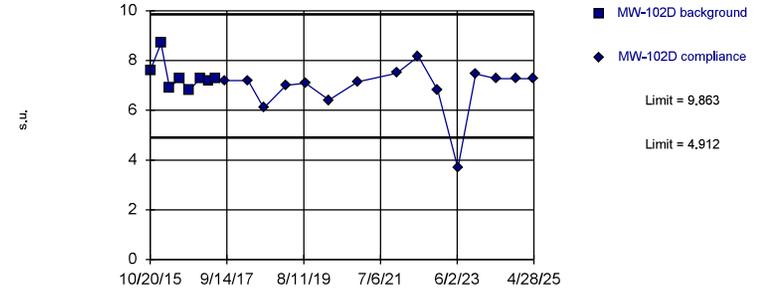


Background Data Summary: Mean=6.6, Std. Dev.=0.3299, n=8. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8975, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: pH Analysis Run 7/6/2025 11:31 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limits

Prediction Limit
Intrawell Parametric

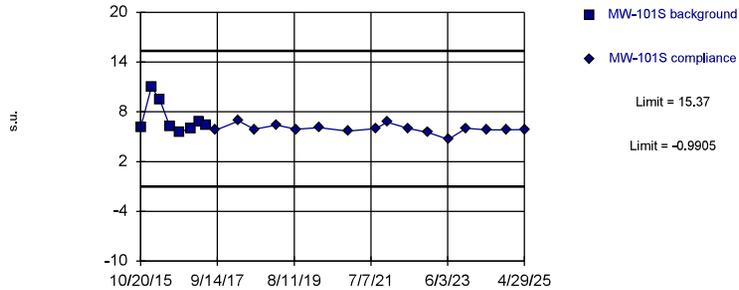


Background Data Summary: Mean=7.388, Std. Dev.=0.5866, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8007, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: pH Analysis Run 7/6/2025 11:31 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limits

Prediction Limit
Intrawell Parametric

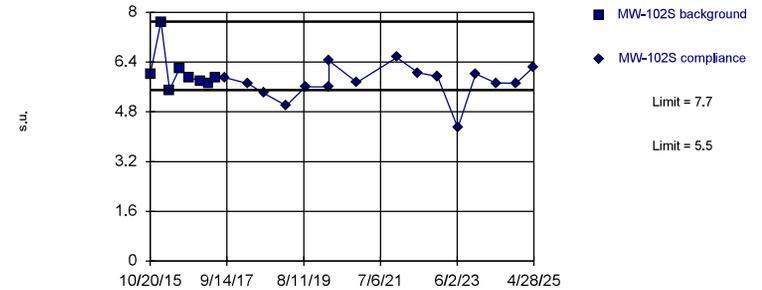


Background Data Summary: Mean=7.188, Std. Dev.=1.938, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7625, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: pH Analysis Run 7/6/2025 11:31 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limits

Prediction Limit
Intrawell Non-parametric

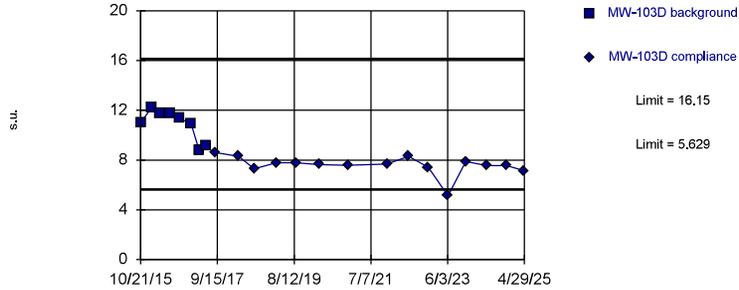


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 8 background values. Well-constituent pair annual alpha = 0.08484. Individual comparison alpha = 0.04288 (1 of 2). Seasonality was not detected with 95% confidence.

Constituent: pH Analysis Run 7/6/2025 11:31 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limits

Prediction Limit
Intrawell Parametric

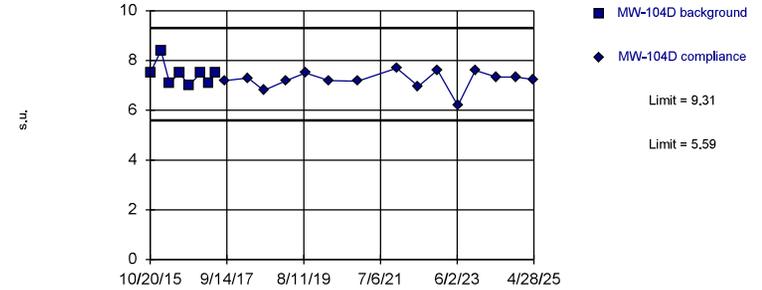


Background Data Summary: Mean=10.89, Std. Dev.=1.246, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8613, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: pH Analysis Run 7/6/2025 11:31 PM
 White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limits

Prediction Limit
Intrawell Parametric

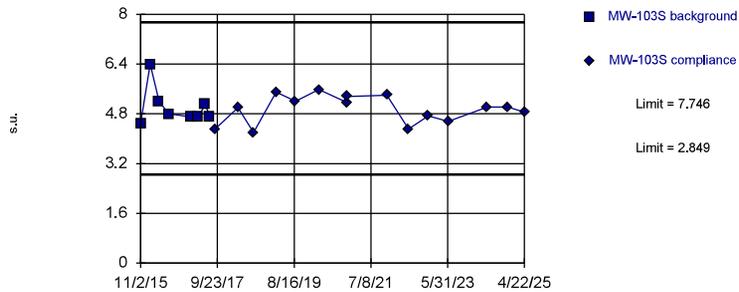


Background Data Summary: Mean=7.45, Std. Dev.=0.4408, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8007, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: pH Analysis Run 7/6/2025 11:31 PM
 White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limits

Prediction Limit
Intrawell Parametric

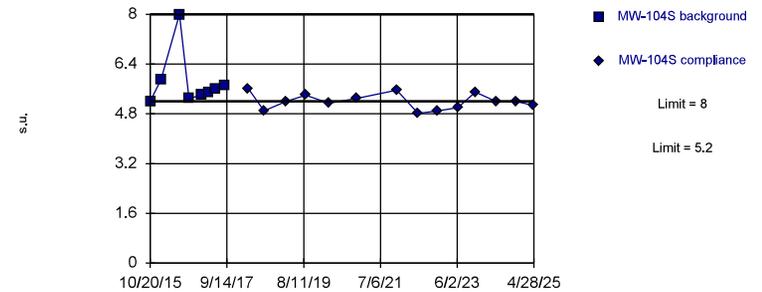


Background Data Summary (based on square root transformation): Mean=2.236, Std. Dev.=0.1298, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7626, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: pH Analysis Run 7/6/2025 11:31 PM
 White Bluff Plant Data: WBLF_Santias_CMF_2025

Exceeds Limits

Prediction Limit
Intrawell Non-parametric

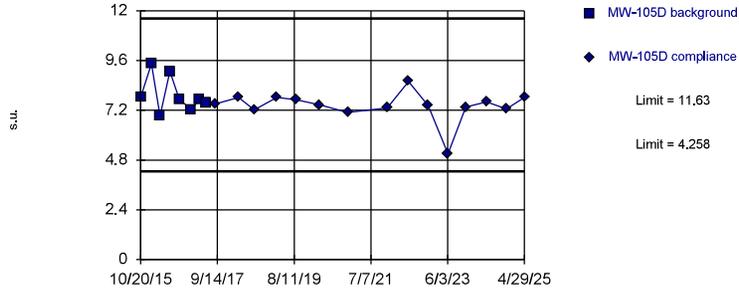


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 8 background values. Well-constituent pair annual alpha = 0.08484. Individual comparison alpha = 0.04288 (1 of 2). Seasonality was not detected with 95% confidence.

Constituent: pH Analysis Run 7/6/2025 11:31 PM
 White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limits

Prediction Limit Intrawell Parametric

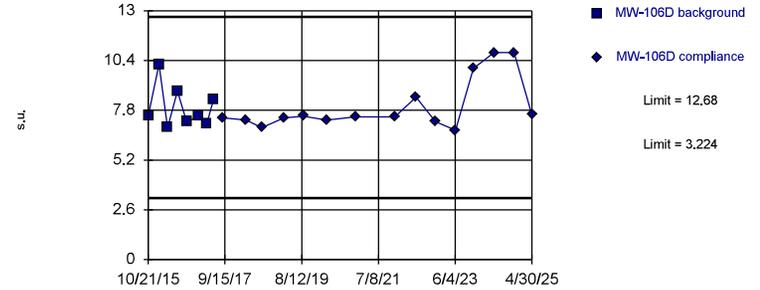


Background Data Summary: Mean=7.944, Std. Dev.=0.8734, n=8. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8657, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: pH Analysis Run 7/6/2025 11:31 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limits

Prediction Limit Intrawell Parametric

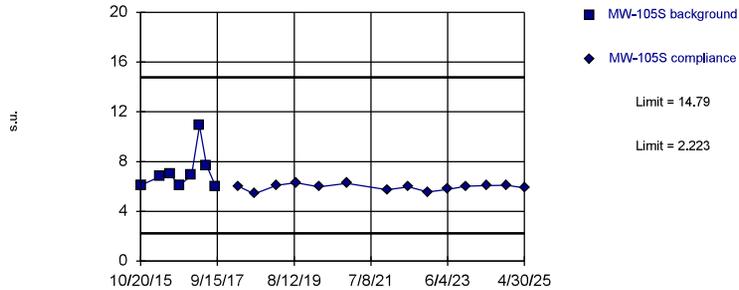


Background Data Summary: Mean=7.95, Std. Dev.=1.12, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8577, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: pH Analysis Run 7/6/2025 11:31 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limits

Prediction Limit Intrawell Parametric

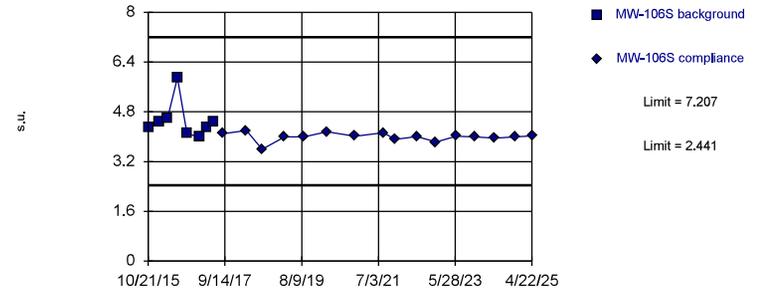


Background Data Summary (based on square root transformation): Mean=2.668, Std. Dev.=0.279, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7609, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: pH Analysis Run 7/6/2025 11:31 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limits

Prediction Limit Intrawell Parametric

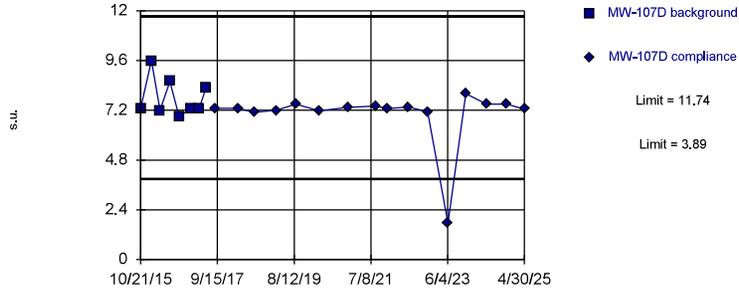


Background Data Summary (based on square root transformation): Mean=2.124, Std. Dev.=0.133, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7694, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: pH Analysis Run 7/6/2025 11:31 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limits

Prediction Limit
Intrawell Parametric

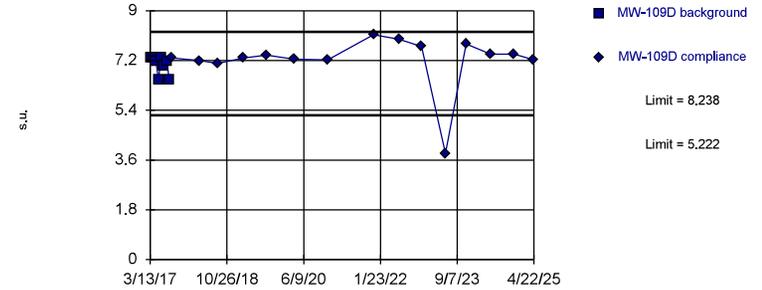


Background Data Summary: Mean=7.813, Std. Dev.=0.9296, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8379, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: pH Analysis Run 7/6/2025 11:31 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limits

Prediction Limit
Intrawell Parametric

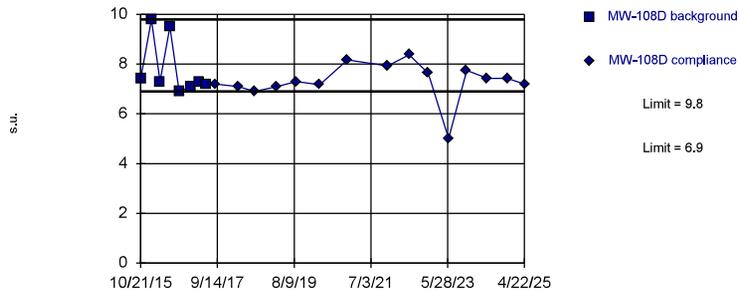


Background Data Summary (based on cube transformation): Mean=350.7, Std. Dev.=49.36, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7546, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: pH Analysis Run 7/6/2025 11:31 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limits

Prediction Limit
Intrawell Non-parametric

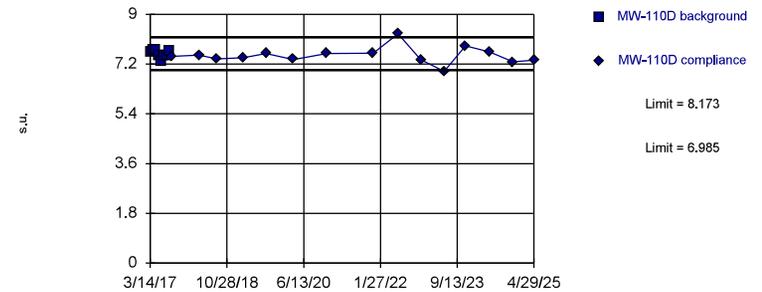


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 8 background values. Well-constituent pair annual alpha = 0.08484. Individual comparison alpha = 0.04288 (1 of 2). Seasonality was not detected with 95% confidence.

Constituent: pH Analysis Run 7/6/2025 11:31 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limits

Prediction Limit
Intrawell Parametric

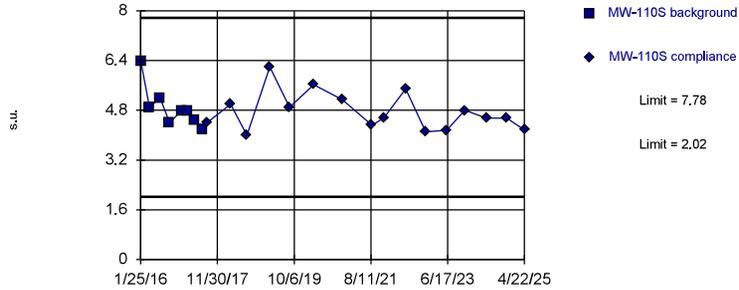


Background Data Summary: Mean=7.579, Std. Dev.=0.1407, n=8. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8914, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: pH Analysis Run 7/6/2025 11:31 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limits

Prediction Limit
Intrawell Parametric

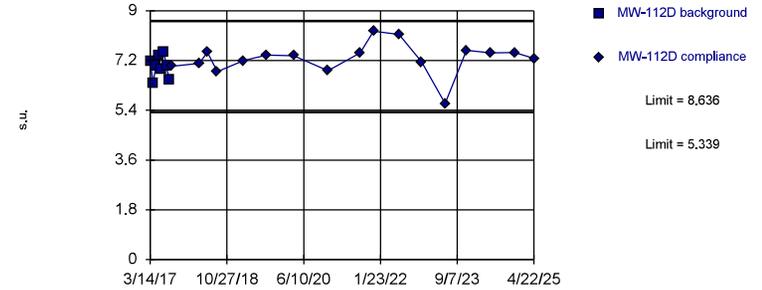


Background Data Summary: Mean=4.9, Std. Dev.=0.6824, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8395, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: pH Analysis Run 7/6/2025 11:32 PM
 White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limits

Prediction Limit
Intrawell Parametric

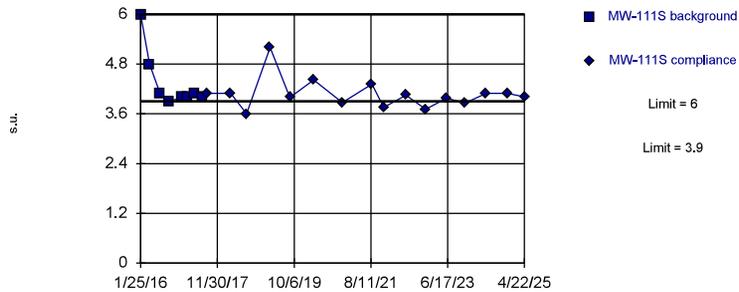


Background Data Summary: Mean=6.988, Std. Dev.=0.3907, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9409, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: pH Analysis Run 7/6/2025 11:32 PM
 White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limits

Prediction Limit
Intrawell Non-parametric

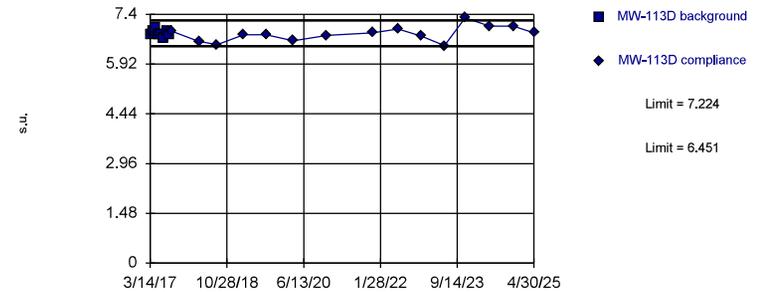


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 8 background values. Well-constituent pair annual alpha = 0.08484. Individual comparison alpha = 0.04288 (1 of 2). Seasonality was not detected with 95% confidence.

Constituent: pH Analysis Run 7/6/2025 11:32 PM
 White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limits

Prediction Limit
Intrawell Parametric

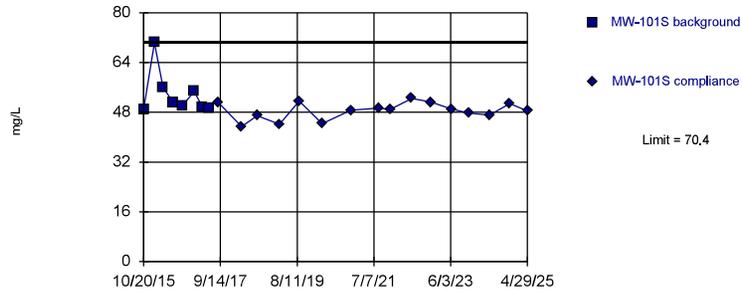


Background Data Summary: Mean=6.838, Std. Dev.=0.09161, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9054, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: pH Analysis Run 7/6/2025 11:32 PM
 White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit
Intrawell Non-parametric

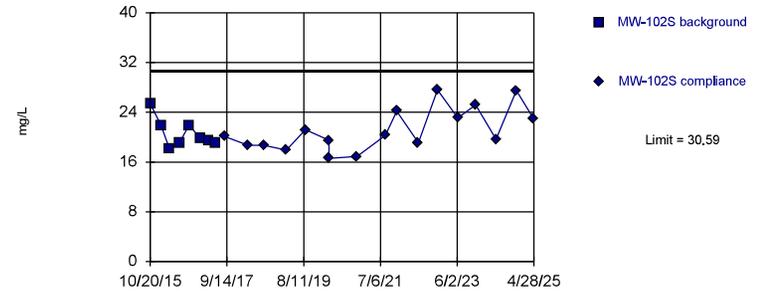


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 8 background values. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2). Seasonality was not detected with 95% confidence.

Constituent: Sulfate Analysis Run 7/6/2025 11:32 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit
Intrawell Parametric

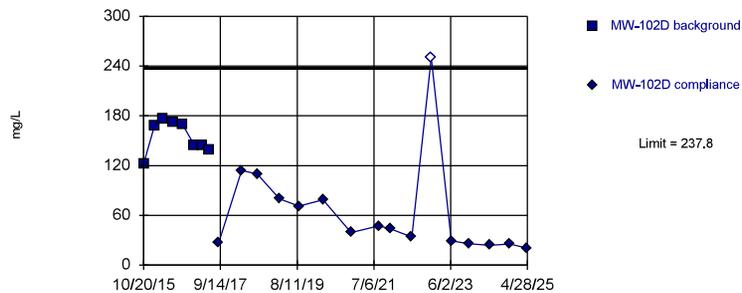


Background Data Summary: Mean=20.59, Std. Dev.=2.37, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8673, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Sulfate Analysis Run 7/6/2025 11:32 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit
Intrawell Parametric

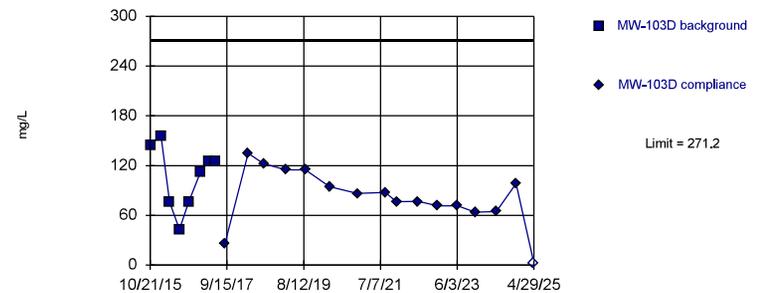


Background Data Summary: Mean=154.8, Std. Dev.=19.68, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8991, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Sulfate Analysis Run 7/6/2025 11:32 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit
Intrawell Parametric

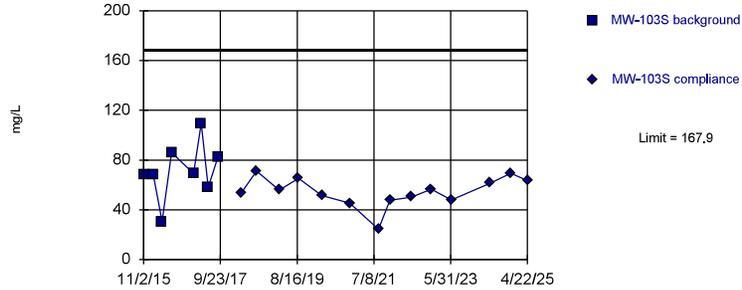


Background Data Summary: Mean=107.4, Std. Dev.=38.83, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9376, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Sulfate Analysis Run 7/6/2025 11:32 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit
Intrawell Parametric

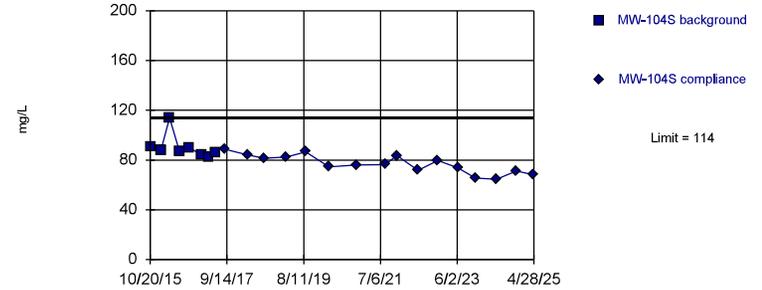


Background Data Summary: Mean=71.62, Std. Dev.=22.83, n=8. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9548, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Sulfate Analysis Run 7/6/2025 11:32 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

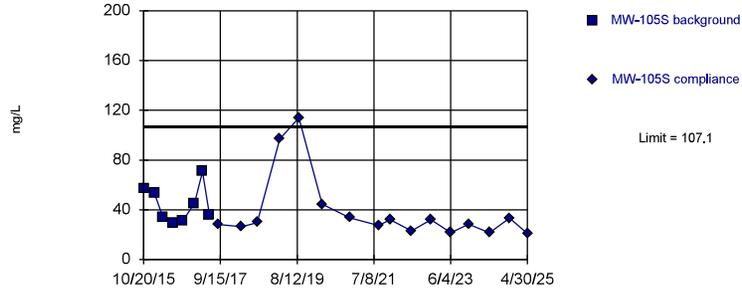
Within Limit

Prediction Limit
Intrawell Non-parametric



Within Limit

Prediction Limit Intrawell Parametric

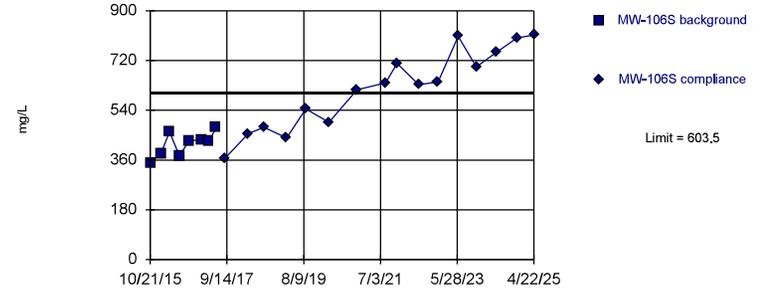


Background Data Summary: Mean=44.65, Std. Dev.=14.79, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9046, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Sulfate Analysis Run 7/6/2025 11:32 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Exceeds Limit

Prediction Limit Intrawell Parametric

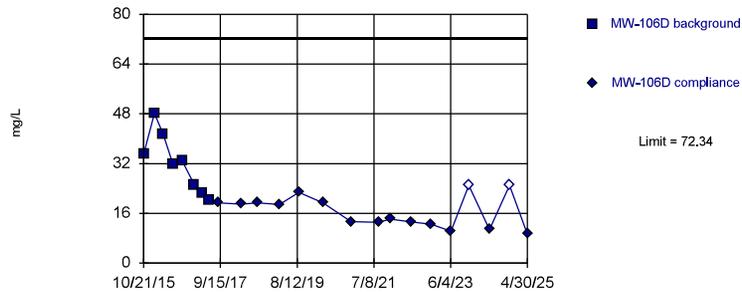


Background Data Summary: Mean=417.6, Std. Dev.=44.04, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9521, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Sulfate Analysis Run 7/6/2025 11:32 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit Intrawell Parametric

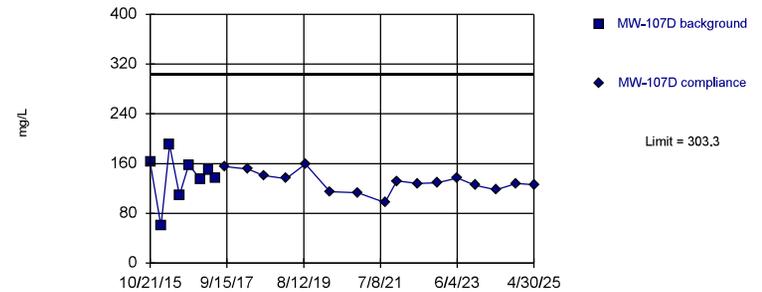


Background Data Summary: Mean=32.2, Std. Dev.=9.512, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9589, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Sulfate Analysis Run 7/6/2025 11:32 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit Intrawell Parametric

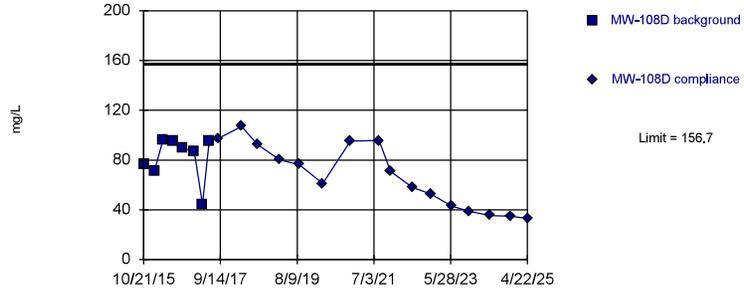


Background Data Summary: Mean=137.5, Std. Dev.=39.29, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9332, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Sulfate Analysis Run 7/6/2025 11:32 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit Intrawell Parametric

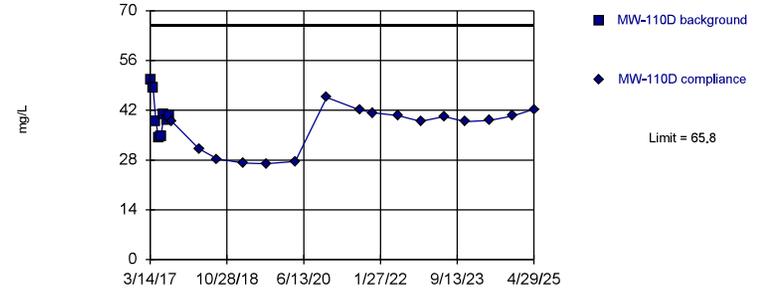


Background Data Summary: Mean=82.04, Std. Dev.=17.7, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.818, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Sulfate Analysis Run 7/6/2025 11:32 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit Intrawell Parametric

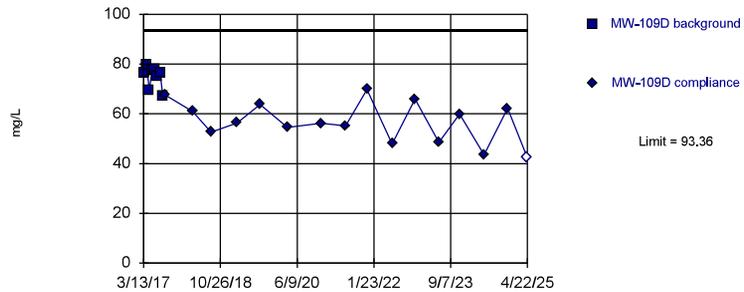


Background Data Summary: Mean=40.95, Std. Dev.=5.889, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.888, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Sulfate Analysis Run 7/6/2025 11:32 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit Intrawell Parametric

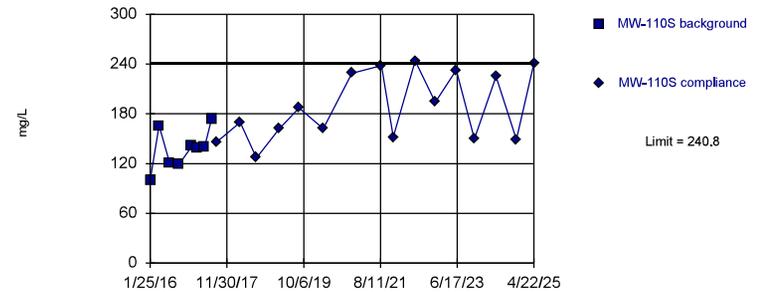


Background Data Summary: Mean=75.01, Std. Dev.=4.347, n=8. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8627, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Sulfate Analysis Run 7/6/2025 11:32 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Exceeds Limit

Prediction Limit Intrawell Parametric

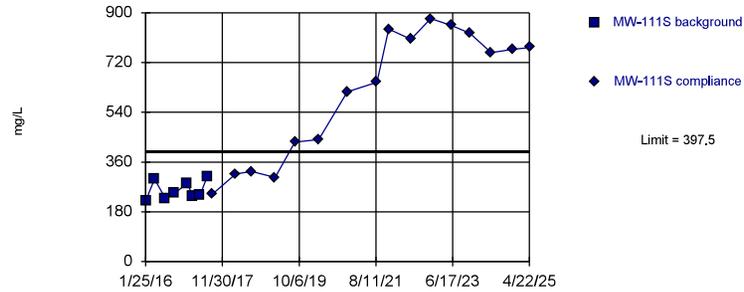


Background Data Summary: Mean=137.5, Std. Dev.=24.48, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9542, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Sulfate Analysis Run 7/6/2025 11:32 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Exceeds Limit

Prediction Limit
Intrawell Parametric

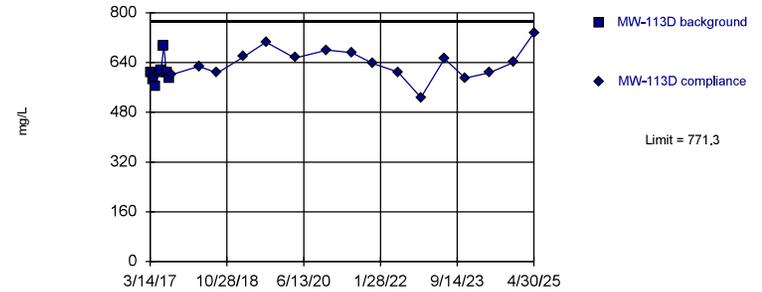


Background Data Summary: Mean=257.8, Std. Dev.=33.11, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8865, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Sulfate Analysis Run 7/6/2025 11:32 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit
Intrawell Parametric

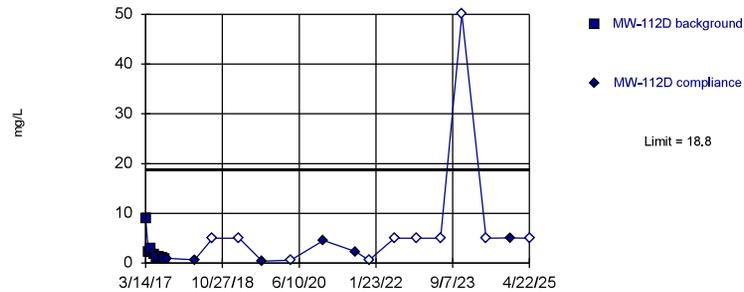


Background Data Summary: Mean=609, Std. Dev.=38.47, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8252, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Sulfate Analysis Run 7/6/2025 11:32 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit
Intrawell Parametric

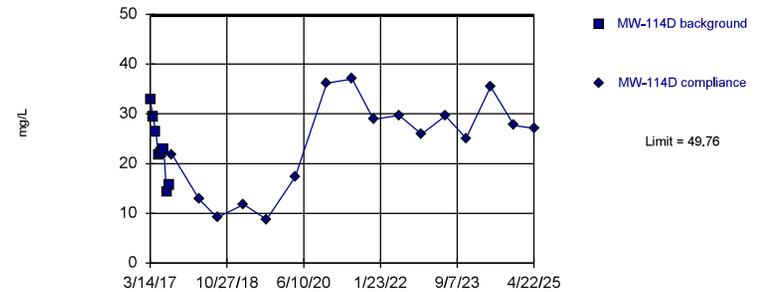


Background Data Summary (based on square root transformation): Mean=1.44, Std. Dev.=0.6861, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7639, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Sulfate Analysis Run 7/6/2025 11:32 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit
Intrawell Parametric

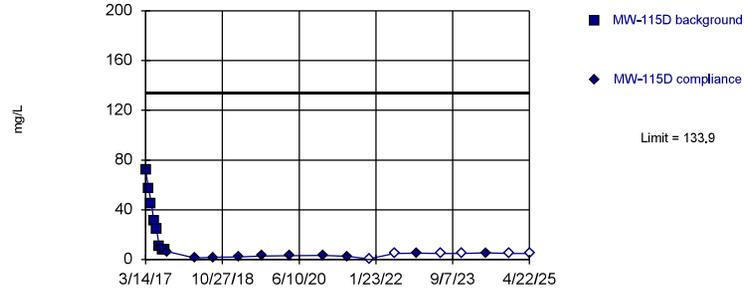


Background Data Summary: Mean=23.19, Std. Dev.=6.296, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9629, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Sulfate Analysis Run 7/6/2025 11:32 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit
Intrawell Parametric

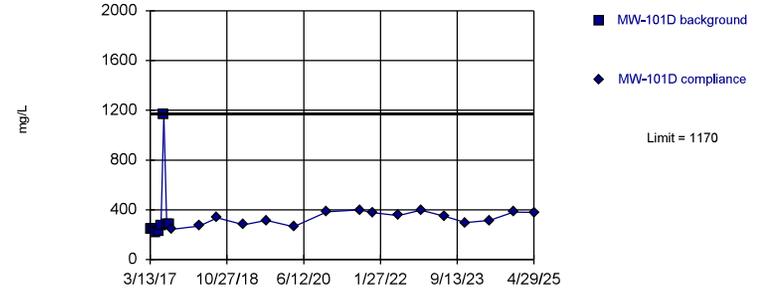


Background Data Summary: Mean=32.16, Std. Dev.=24.12, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9039, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Sulfate Analysis Run 7/6/2025 11:32 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit
Intrawell Non-parametric

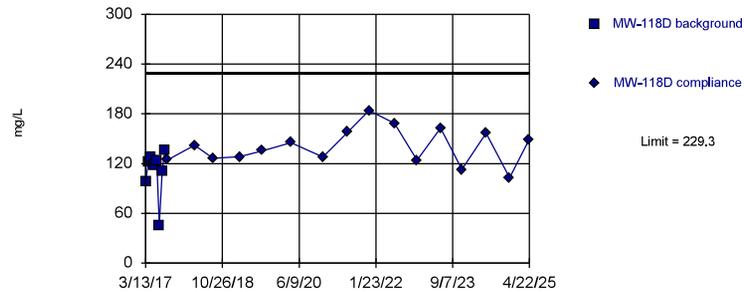


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 8 background values. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2). Seasonality was not detected with 95% confidence.

Constituent: TDS Analysis Run 7/6/2025 11:32 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit
Intrawell Parametric

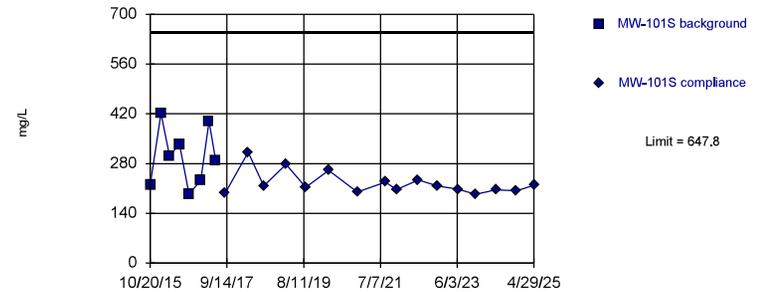


Background Data Summary: Mean=110.1, Std. Dev.=28.25, n=8. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7738, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Sulfate Analysis Run 7/6/2025 11:32 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit
Intrawell Parametric

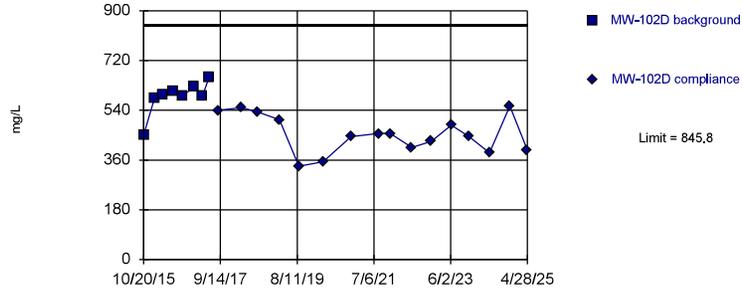


Background Data Summary: Mean=299, Std. Dev.=82.66, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.94, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: TDS Analysis Run 7/6/2025 11:32 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit
Intrawell Parametric

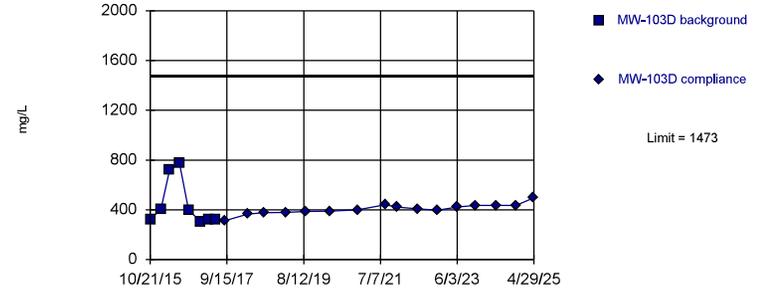


Background Data Summary: Mean=588.9, Std. Dev.=60.89, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7906, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: TDS Analysis Run 7/6/2025 11:32 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit
Intrawell Parametric

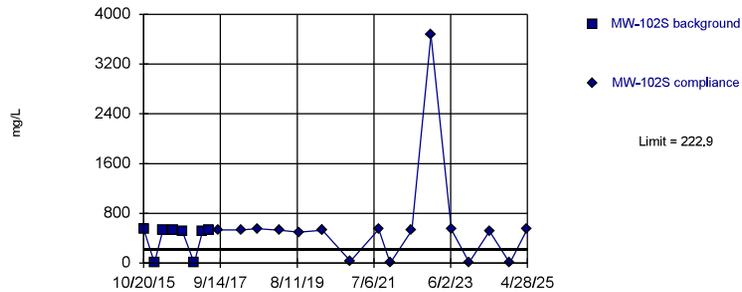


Background Data Summary (based on square root transformation): Mean=20.78, Std. Dev.=4.17, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7517, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: TDS Analysis Run 7/6/2025 11:32 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Exceeds Limit

Prediction Limit
Intrawell Parametric

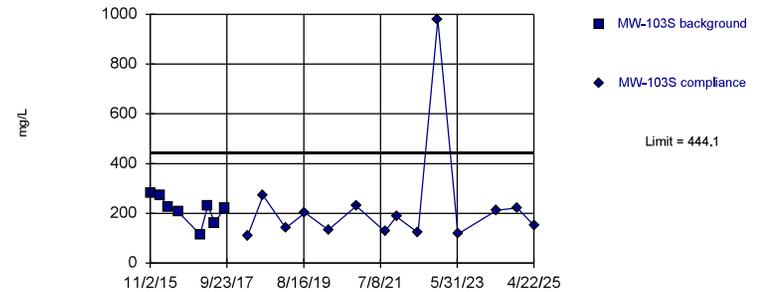


Background Data Summary (based on x*5 transformation): Mean=2.0e11, Std. Dev.=8.2e10, n=8. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.782, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: TDS Analysis Run 7/6/2025 11:32 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit
Intrawell Parametric

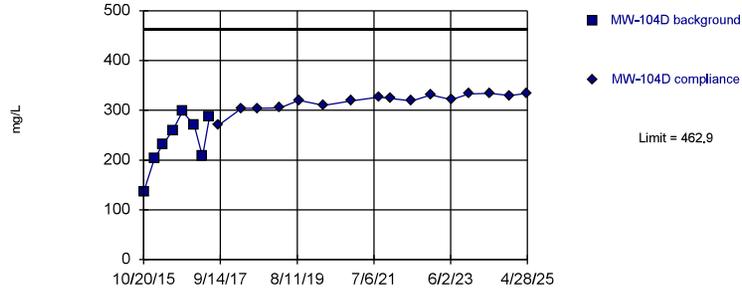


Background Data Summary: Mean=213.8, Std. Dev.=54.58, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9424, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: TDS Analysis Run 7/6/2025 11:32 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit Intrawell Parametric

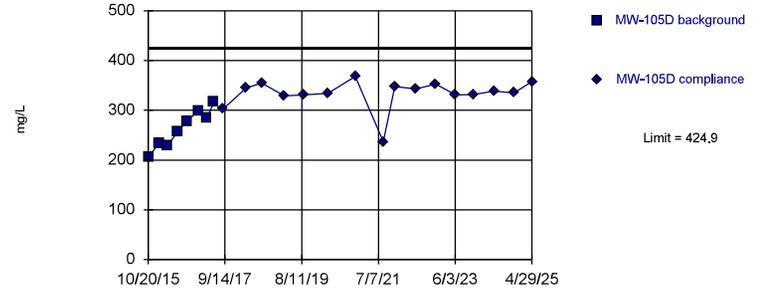


Background Data Summary: Mean=236.6, Std. Dev.=53.61, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9352, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: TDS Analysis Run 7/6/2025 11:32 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit Intrawell Parametric

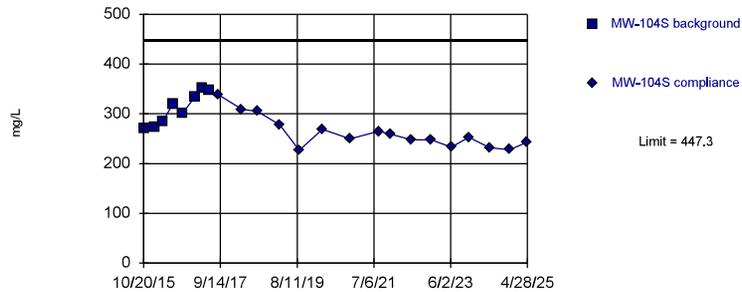


Background Data Summary: Mean=263, Std. Dev.=38.37, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9641, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: TDS Analysis Run 7/6/2025 11:32 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit Intrawell Parametric

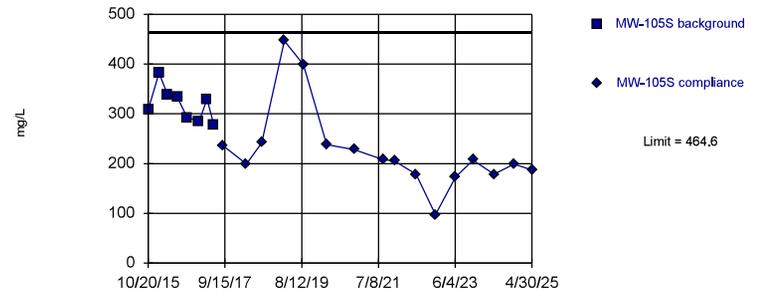


Background Data Summary: Mean=310.9, Std. Dev.=32.32, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9126, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: TDS Analysis Run 7/6/2025 11:32 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit Intrawell Parametric

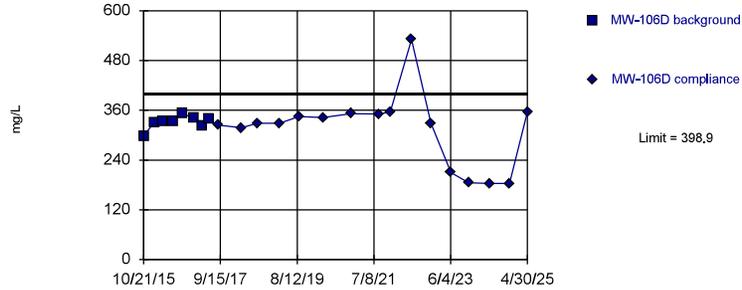


Background Data Summary: Mean=318.4, Std. Dev.=34.64, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9396, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: TDS Analysis Run 7/6/2025 11:32 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit
Intrawell Parametric

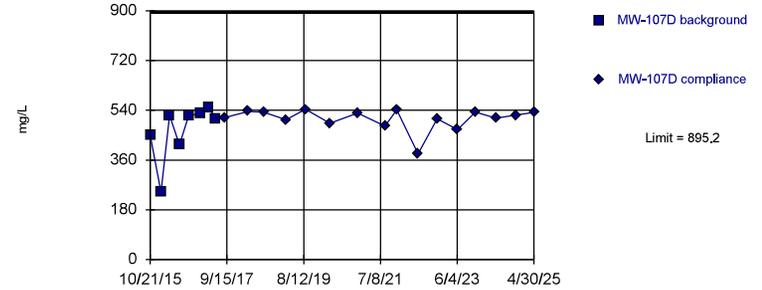


Background Data Summary: Mean=331.3, Std. Dev.=16.02, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8926, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: TDS Analysis Run 7/6/2025 11:32 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit
Intrawell Parametric

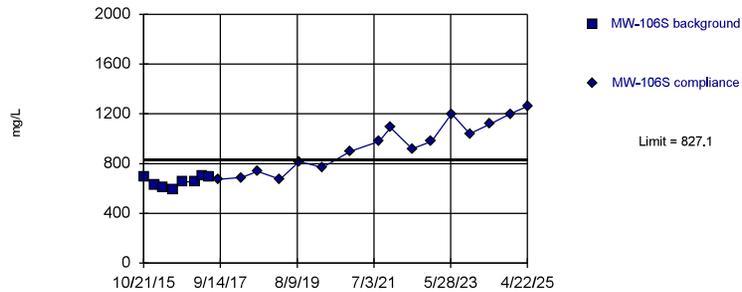


Background Data Summary: Mean=467.8, Std. Dev.=101.3, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.772, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: TDS Analysis Run 7/6/2025 11:32 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Exceeds Limit

Prediction Limit
Intrawell Parametric

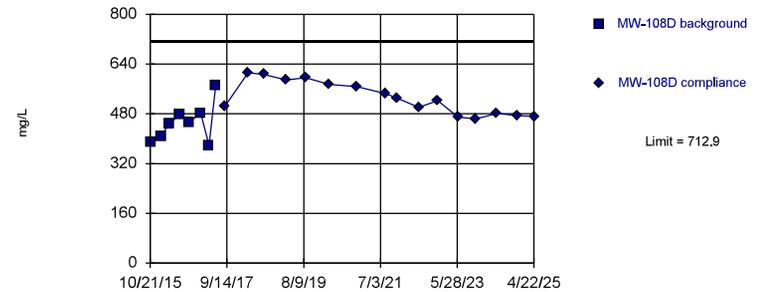


Background Data Summary: Mean=651.5, Std. Dev.=41.61, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9154, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: TDS Analysis Run 7/6/2025 11:32 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit
Intrawell Parametric

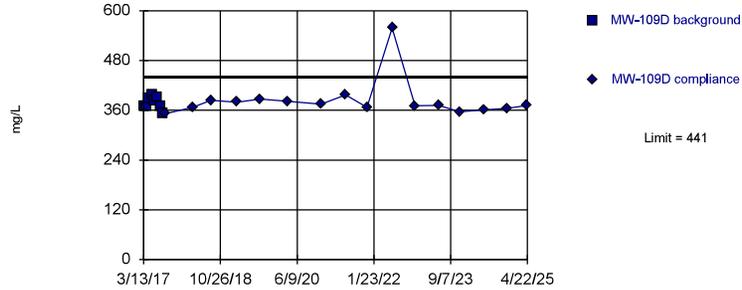


Background Data Summary: Mean=451, Std. Dev.=62.06, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9261, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: TDS Analysis Run 7/6/2025 11:32 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit Intrawell Parametric

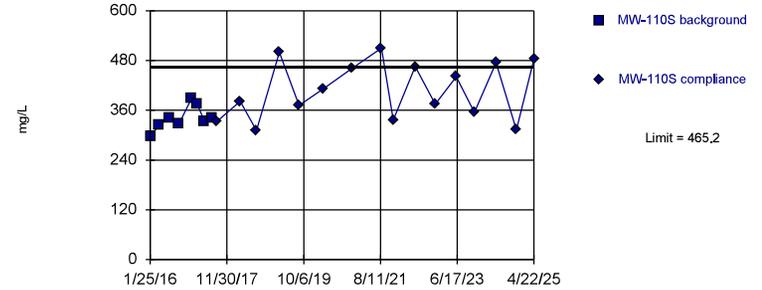


Background Data Summary: Mean=378, Std. Dev.=14.93, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9316, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: TDS Analysis Run 7/6/2025 11:32 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Exceeds Limit

Prediction Limit Intrawell Parametric

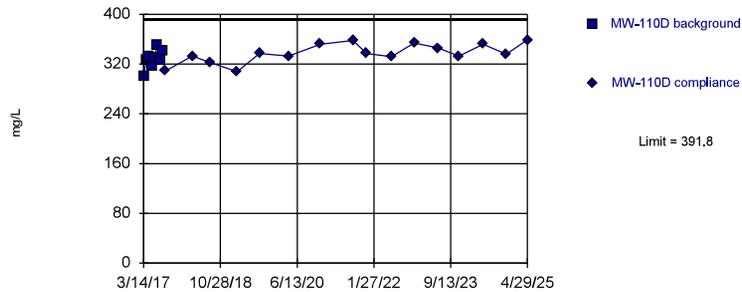


Background Data Summary: Mean=341.5, Std. Dev.=29.32, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9482, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: TDS Analysis Run 7/6/2025 11:32 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Within Limit

Prediction Limit Intrawell Parametric

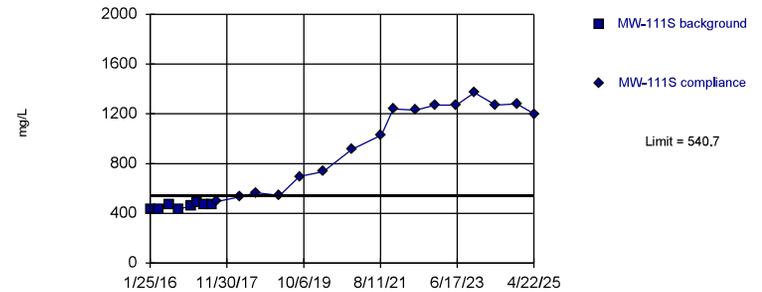


Background Data Summary: Mean=328.5, Std. Dev.=15, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9611, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: TDS Analysis Run 7/6/2025 11:32 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Exceeds Limit

Prediction Limit Intrawell Parametric

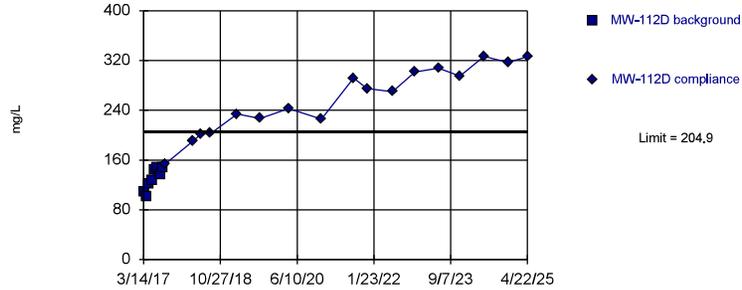


Background Data Summary: Mean=457.4, Std. Dev.=19.76, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.878, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: TDS Analysis Run 7/6/2025 11:32 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Exceeds Limit

Prediction Limit
Intrawell Parametric

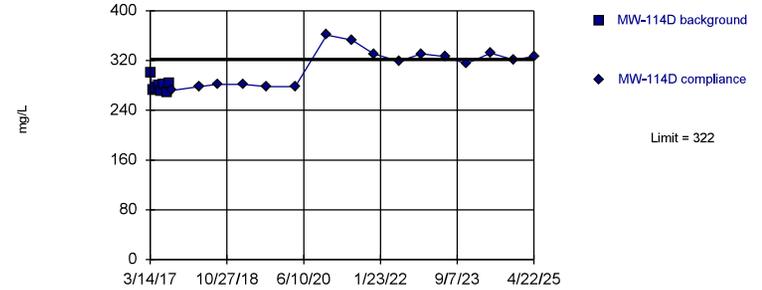


Background Data Summary: Mean=129.4, Std. Dev.=17.9, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9002, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: TDS Analysis Run 7/6/2025 11:33 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

Exceeds Limit

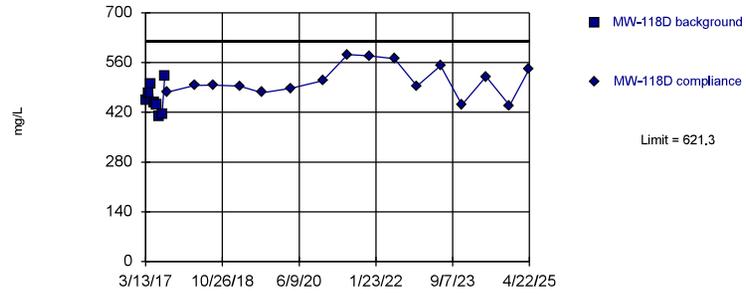
Prediction Limit
Intrawell Parametric



Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=457.9, Std. Dev.=38.72, n=8. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9608, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: TDS Analysis Run 7/6/2025 11:33 PM
White Bluff Plant Data: WBLF_Santias_CMF_2025

APPENDIX 4

Analytical Results



ANALYTICAL REPORT

May 13, 2025

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

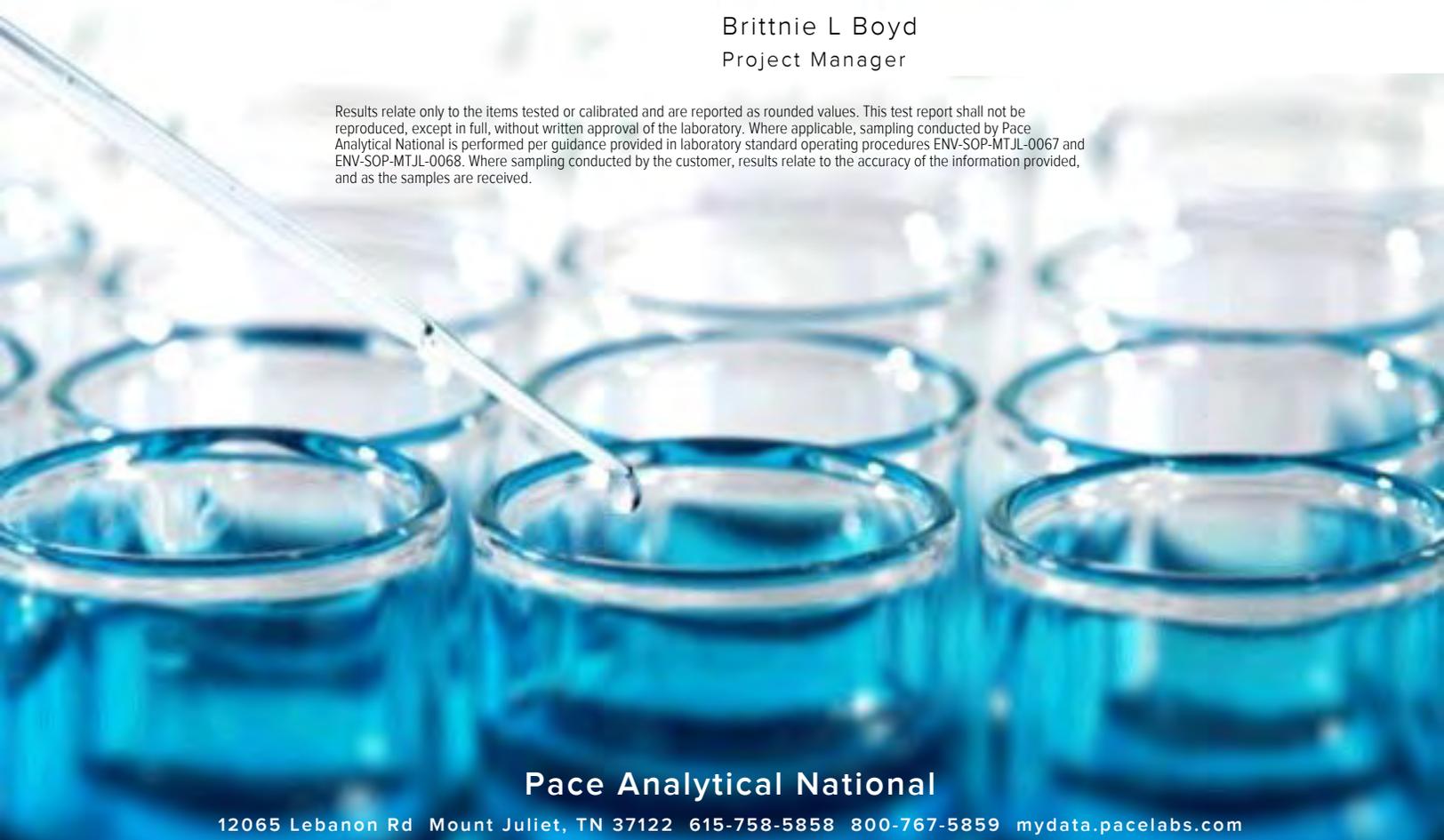
Alliance Technical Group - Bryant, AR

Sample Delivery Group: L1854370
 Samples Received: 05/02/2025
 Project Number: 1145-21-080
 Description: Entergy - White Bluff
 Site: CADL - CCR
 Report To: Jonathan Brown
 219 Brown Lane
 Little Rock, AR 72022

Entire Report Reviewed By:

Brittanie L Boyd
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

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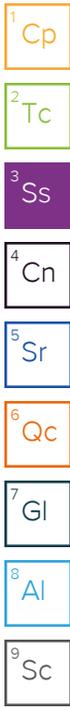


SAMPLE SUMMARY

MW-101S L1854370-01

Collected by: Jacob Colbert
 Collected date/time: 04/29/25 11:50
 Received date/time: 05/02/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2505844	1	05/03/25 11:22	05/03/25 16:17	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2505886	1	05/08/25 04:32	05/08/25 04:32	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2510360	1	05/09/25 22:07	05/10/25 05:30	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2510415	1	05/09/25 09:15	05/09/25 15:36	JPD	Mt. Juliet, TN



MW-102S L1854370-02

Collected by: Jacob Colbert
 Collected date/time: 04/28/25 12:50
 Received date/time: 05/02/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2505843	1	05/03/25 11:27	05/03/25 15:28	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2505886	1	05/08/25 04:48	05/08/25 04:48	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2510360	1	05/09/25 22:07	05/10/25 05:32	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2510415	1	05/09/25 09:15	05/09/25 16:02	UNP	Mt. Juliet, TN

MW-104S L1854370-03

Collected by: Jacob Colbert
 Collected date/time: 04/28/25 10:00
 Received date/time: 05/02/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2505843	1	05/03/25 11:27	05/03/25 15:28	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2505886	1	05/08/25 05:04	05/08/25 05:04	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2510360	1	05/09/25 22:07	05/10/25 05:34	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2510415	1	05/09/25 09:15	05/09/25 16:05	UNP	Mt. Juliet, TN

MW-105S L1854370-04

Collected by: Jacob Colbert
 Collected date/time: 04/30/25 12:45
 Received date/time: 05/02/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2505847	1	05/03/25 15:42	05/04/25 15:42	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2505886	1	05/08/25 05:21	05/08/25 05:21	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2510360	1	05/09/25 22:07	05/10/25 05:36	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2510415	1	05/09/25 09:15	05/09/25 16:08	UNP	Mt. Juliet, TN

MW-101D L1854370-05

Collected by: Jacob Colbert
 Collected date/time: 04/29/25 13:10
 Received date/time: 05/02/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2505844	1	05/03/25 11:22	05/03/25 16:17	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2505886	1	05/08/25 06:10	05/08/25 06:10	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2510360	1	05/09/25 22:07	05/10/25 05:38	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2510415	1	05/09/25 09:15	05/09/25 16:11	UNP	Mt. Juliet, TN

MW-102D L1854370-06

Collected by: Jacob Colbert
 Collected date/time: 04/28/25 13:20
 Received date/time: 05/02/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2505843	1	05/03/25 11:27	05/03/25 15:28	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2505886	1	05/08/25 06:26	05/08/25 06:26	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2510360	1	05/09/25 22:07	05/10/25 05:40	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2510415	1	05/09/25 09:15	05/09/25 16:14	UNP	Mt. Juliet, TN

SAMPLE SUMMARY

MW-103D L1854370-07

Collected by: Jacob Colbert
 Collected date/time: 04/29/25 09:25
 Received date/time: 05/02/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2505844	1	05/03/25 11:22	05/03/25 16:17	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2505886	1	05/08/25 06:43	05/08/25 06:43	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2510360	1	05/09/25 22:07	05/10/25 05:42	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2510415	1	05/09/25 09:15	05/09/25 16:18	UNP	Mt. Juliet, TN



MW-104D L1854370-08

Collected by: Jacob Colbert
 Collected date/time: 04/28/25 10:45
 Received date/time: 05/02/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2505843	1	05/03/25 11:27	05/03/25 15:28	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2505886	1	05/08/25 06:59	05/08/25 06:59	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2510360	1	05/09/25 22:07	05/10/25 05:44	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2510415	1	05/09/25 09:15	05/09/25 16:21	UNP	Mt. Juliet, TN

MW-105D L1854370-09

Collected by: Jacob Colbert
 Collected date/time: 04/29/25 14:20
 Received date/time: 05/02/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2505844	1	05/03/25 11:22	05/03/25 16:17	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2505886	1	05/08/25 07:15	05/08/25 07:15	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2510360	1	05/09/25 22:07	05/10/25 05:49	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2510415	1	05/09/25 09:15	05/09/25 16:24	UNP	Mt. Juliet, TN

MW-106D L1854370-10

Collected by: Jacob Colbert
 Collected date/time: 04/30/25 11:55
 Received date/time: 05/02/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2505847	1	05/03/25 15:42	05/04/25 15:42	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2505886	1	05/08/25 07:32	05/08/25 07:32	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2510360	1	05/09/25 22:07	05/10/25 05:51	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2510415	1	05/09/25 09:15	05/09/25 16:27	UNP	Mt. Juliet, TN

MW-107D L1854370-11

Collected by: Jacob Colbert
 Collected date/time: 04/30/25 10:00
 Received date/time: 05/02/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2505847	1	05/03/25 15:42	05/04/25 15:42	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2505889	1	05/05/25 13:59	05/05/25 13:59	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2505889	5	05/05/25 14:12	05/05/25 14:12	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2510360	1	05/09/25 22:07	05/10/25 05:53	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2510415	1	05/09/25 09:15	05/09/25 16:30	UNP	Mt. Juliet, TN

MW-110D L1854370-12

Collected by: Jacob Colbert
 Collected date/time: 04/29/25 10:30
 Received date/time: 05/02/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2505844	1	05/03/25 11:22	05/03/25 16:17	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2505889	1	05/05/25 14:26	05/05/25 14:26	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2510360	1	05/09/25 22:07	05/10/25 05:55	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2510415	1	05/09/25 09:15	05/09/25 16:40	UNP	Mt. Juliet, TN

SAMPLE SUMMARY

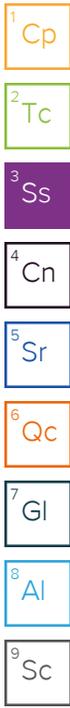
MW-113D L1854370-13

Collected by
Jacob Colbert

Collected date/time
04/30/25 08:25

Received date/time
05/02/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2505847	1	05/03/25 15:42	05/04/25 15:42	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2505889	1	05/05/25 15:19	05/05/25 15:19	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2505889	10	05/05/25 15:33	05/05/25 15:33	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2510360	1	05/09/25 22:07	05/10/25 05:07	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2510415	1	05/09/25 09:15	05/09/25 16:43	UNP	Mt. Juliet, TN



FIELD BLANK 1 L1854370-14

Collected by
Jacob Colbert

Collected date/time
04/30/25 12:45

Received date/time
05/02/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2505847	1	05/03/25 15:42	05/04/25 15:42	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2505889	1	05/05/25 15:46	05/05/25 15:46	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2510360	1	05/09/25 22:07	05/10/25 05:57	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2510415	1	05/09/25 09:15	05/09/25 16:47	UNP	Mt. Juliet, TN

DUPLICATE 1 (MW-102D) L1854370-15

Collected by
Jacob Colbert

Collected date/time
04/30/25 13:20

Received date/time
05/02/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2505847	1	05/03/25 15:42	05/04/25 15:42	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2505889	1	05/05/25 16:27	05/05/25 16:27	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2510366	1	05/09/25 23:44	05/10/25 05:08	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2510415	1	05/09/25 09:15	05/09/25 16:50	UNP	Mt. Juliet, TN

FIELD BLANK 2 L1854370-16

Collected by
Jacob Colbert

Collected date/time
04/30/25 12:55

Received date/time
05/02/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2505847	1	05/03/25 15:42	05/04/25 15:42	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2505889	1	05/05/25 16:40	05/05/25 16:40	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2510366	1	05/09/25 23:44	05/10/25 05:10	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2510415	1	05/09/25 09:15	05/09/25 16:53	UNP	Mt. Juliet, TN

DUPLICATE 2 (MW-113D) L1854370-17

Collected by
Jacob Colbert

Collected date/time
04/30/25 09:25

Received date/time
05/02/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2505847	1	05/03/25 15:42	05/04/25 15:42	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2505889	1	05/05/25 16:53	05/05/25 16:53	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2505889	10	05/05/25 17:07	05/05/25 17:07	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2510366	1	05/09/25 23:44	05/10/25 05:12	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2510415	1	05/09/25 09:15	05/09/25 16:56	UNP	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.



Brittnie L Boyd
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	219		10.0	1	05/03/2025 16:17	WG2505844

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	6.47		1.00	1	05/08/2025 04:32	WG2505886
Fluoride	ND		0.150	1	05/08/2025 04:32	WG2505886
Sulfate	48.5		5.00	1	05/08/2025 04:32	WG2505886

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	05/10/2025 05:30	WG2510360

6 Qc

7 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	19.5		1.00	1	05/09/2025 15:36	WG2510415

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	193		10.0	1	05/03/2025 15:28	WG2505843

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	6.59		1.00	1	05/08/2025 04:48	WG2505886
Fluoride	ND		0.150	1	05/08/2025 04:48	WG2505886
Sulfate	22.9		5.00	1	05/08/2025 04:48	WG2505886

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	05/10/2025 05:32	WG2510360

6 Qc

7 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	13.5		1.00	1	05/09/2025 16:02	WG2510415

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	243		10.0	1	05/03/2025 15:28	WG2505843

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	3.75		1.00	1	05/08/2025 05:04	WG2505886
Fluoride	ND		0.150	1	05/08/2025 05:04	WG2505886
Sulfate	68.2		5.00	1	05/08/2025 05:04	WG2505886

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.827		0.200	1	05/10/2025 05:34	WG2510360

6 Qc

7 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	14.7		1.00	1	05/09/2025 16:05	WG2510415

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	187		10.0	1	05/04/2025 15:42	WG2505847

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	3.59		1.00	1	05/08/2025 05:21	WG2505886
Fluoride	ND		0.150	1	05/08/2025 05:21	WG2505886
Sulfate	21.1		5.00	1	05/08/2025 05:21	WG2505886

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	05/10/2025 05:36	WG2510360

6 Qc

7 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	15.1		1.00	1	05/09/2025 16:08	WG2510415

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	380		10.0	1	05/03/2025 16:17	WG2505844

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	5.28		1.00	1	05/08/2025 06:10	WG2505886
Fluoride	ND		0.150	1	05/08/2025 06:10	WG2505886
Sulfate	ND		5.00	1	05/08/2025 06:10	WG2505886

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	05/10/2025 05:38	WG2510360

6 Qc

7 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	57.5		1.00	1	05/09/2025 16:11	WG2510415

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	397		10.0	1	05/03/2025 15:28	WG2505843

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	7.18		1.00	1	05/08/2025 06:26	WG2505886
Fluoride	ND		0.150	1	05/08/2025 06:26	WG2505886
Sulfate	20.4		5.00	1	05/08/2025 06:26	WG2505886

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.269		0.200	1	05/10/2025 05:40	WG2510360

6 Qc

7 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	64.9		1.00	1	05/09/2025 16:14	WG2510415

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	497		10.0	1	05/03/2025 16:17	WG2505844

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	6.16		1.00	1	05/08/2025 06:43	WG2505886
Fluoride	0.152		0.150	1	05/08/2025 06:43	WG2505886
Sulfate	ND		5.00	1	05/08/2025 06:43	WG2505886

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.283		0.200	1	05/10/2025 05:42	WG2510360

6 Qc

7 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	69.2		1.00	1	05/09/2025 16:18	WG2510415

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	334		10.0	1	05/03/2025 15:28	WG2505843

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	8.42		1.00	1	05/08/2025 06:59	WG2505886
Fluoride	ND		0.150	1	05/08/2025 06:59	WG2505886
Sulfate	23.8		5.00	1	05/08/2025 06:59	WG2505886

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.239		0.200	1	05/10/2025 05:44	WG2510360

6 Qc

7 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	56.7		1.00	1	05/09/2025 16:21	WG2510415

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	358		10.0	1	05/03/2025 16:17	WG2505844

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	7.70		1.00	1	05/08/2025 07:15	WG2505886
Fluoride	ND		0.150	1	05/08/2025 07:15	WG2505886
Sulfate	24.1		5.00	1	05/08/2025 07:15	WG2505886

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.277		0.200	1	05/10/2025 05:49	WG2510360

6 Qc

7 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	57.8		1.00	1	05/09/2025 16:24	WG2510415

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	356		10.0	1	05/04/2025 15:42	WG2505847

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	4.90		1.00	1	05/08/2025 07:32	WG2505886
Fluoride	ND		0.150	1	05/08/2025 07:32	WG2505886
Sulfate	9.38		5.00	1	05/08/2025 07:32	WG2505886

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.307		0.200	1	05/10/2025 05:51	WG2510360

6 Qc

7 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	52.2		1.00	1	05/09/2025 16:27	WG2510415

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	532		10.0	1	05/04/2025 15:42	WG2505847

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	20.1		1.00	1	05/05/2025 13:59	WG2505889
Fluoride	ND		0.150	1	05/05/2025 13:59	WG2505889
Sulfate	126		25.0	5	05/05/2025 14:12	WG2505889

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.317		0.200	1	05/10/2025 05:53	WG2510360

6 Qc

7 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	80.2		1.00	1	05/09/2025 16:30	WG2510415

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	359		10.0	1	05/03/2025 16:17	WG2505844

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	7.04		1.00	1	05/05/2025 14:26	WG2505889
Fluoride	ND		0.150	1	05/05/2025 14:26	WG2505889
Sulfate	42.3		5.00	1	05/05/2025 14:26	WG2505889

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.311		0.200	1	05/10/2025 05:55	WG2510360

6 Qc

7 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	48.8		1.00	1	05/09/2025 16:40	WG2510415

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	1200		20.0	1	05/04/2025 15:42	WG2505847

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	15.6		1.00	1	05/05/2025 15:19	WG2505889
Fluoride	0.323		0.150	1	05/05/2025 15:19	WG2505889
Sulfate	736		50.0	10	05/05/2025 15:33	WG2505889

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.503		0.200	1	05/10/2025 05:07	WG2510360

6 Qc

7 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	198		1.00	1	05/09/2025 16:43	WG2510415

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	ND		10.0	1	05/04/2025 15:42	WG2505847

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	ND		1.00	1	05/05/2025 15:46	WG2505889
Fluoride	ND		0.150	1	05/05/2025 15:46	WG2505889
Sulfate	ND	P1	5.00	1	05/05/2025 15:46	WG2505889

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	05/10/2025 05:57	WG2510360

6 Qc

7 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	ND		1.00	1	05/09/2025 16:47	WG2510415

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	401		10.0	1	05/04/2025 15:42	WG2505847

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	7.95		1.00	1	05/05/2025 16:27	WG2505889
Fluoride	ND		0.150	1	05/05/2025 16:27	WG2505889
Sulfate	22.0		5.00	1	05/05/2025 16:27	WG2505889

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.263		0.200	1	05/10/2025 05:08	WG2510366

6 Qc

7 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	64.9		1.00	1	05/09/2025 16:50	WG2510415

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	ND		10.0	1	05/04/2025 15:42	WG2505847

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	ND		1.00	1	05/05/2025 16:40	WG2505889
Fluoride	ND		0.150	1	05/05/2025 16:40	WG2505889
Sulfate	ND		5.00	1	05/05/2025 16:40	WG2505889

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	05/10/2025 05:10	WG2510366

6 Qc

7 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	ND		1.00	1	05/09/2025 16:53	WG2510415

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	1210		20.0	1	05/04/2025 15:42	WG2505847

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	14.2		1.00	1	05/05/2025 16:53	WG2505889
Fluoride	ND		0.150	1	05/05/2025 16:53	WG2505889
Sulfate	667		50.0	10	05/05/2025 17:07	WG2505889

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.492		0.200	1	05/10/2025 05:12	WG2510366

6 Qc

7 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	199		1.00	1	05/09/2025 16:56	WG2510415

8 Al

9 Sc

Method Blank (MB)

(MB) R4209867-1 05/03/25 15:28

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	U		10.0	10.0

1 Cp

2 Tc

3 Ss

L1853028-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1853028-03 05/03/25 15:28 • (DUP) R4209867-3 05/03/25 15:28

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	323	322	1	0.310		10

4 Cn

5 Sr

6 Qc

L1854370-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1854370-08 05/03/25 15:28 • (DUP) R4209867-4 05/03/25 15:28

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	334	337	1	0.894		10

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R4209867-2 05/03/25 15:28

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8650	98.3	90.0-110	

Method Blank (MB)

(MB) R4209950-1 05/03/25 16:17

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	U		10.0	10.0

1 Cp

2 Tc

3 Ss

L1853862-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1853862-01 05/03/25 16:17 • (DUP) R4209950-3 05/03/25 16:17

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	3830	3630	1	5.50		10

4 Cn

5 Sr

L1854370-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1854370-12 05/03/25 16:17 • (DUP) R4209950-4 05/03/25 16:17

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	359	358	1	0.279		10

6 Qc

7 Gl

8 Al

Laboratory Control Sample (LCS)

(LCS) R4209950-2 05/03/25 16:17

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8460	96.1	90.0-110	

9 Sc

Method Blank (MB)

(MB) R4210594-1 05/04/25 15:42

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	U		10.0	10.0

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1854317-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1854317-20 05/04/25 15:42 • (DUP) R4210594-3 05/04/25 15:42

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	577	579	1	0.346		10

L1854370-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1854370-17 05/04/25 15:42 • (DUP) R4210594-4 05/04/25 15:42

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	1210	1220	1	0.329		10

Laboratory Control Sample (LCS)

(LCS) R4210594-2 05/04/25 15:42

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8840	100	90.0-110	

Method Blank (MB)

(MB) R4211521-1 05/07/25 21:27

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	U		0.547	1.00
Fluoride	U		0.0761	0.150
Sulfate	U		0.637	5.00

L1854317-27 Original Sample (OS) • Duplicate (DUP)

(OS) L1854317-27 05/07/25 21:59 • (DUP) R4211521-3 05/07/25 22:16

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	17.1	16.6	1	2.94		15
Fluoride	0.458	0.397	1	14.2		15
Sulfate	46.9	46.3	1	1.36		15

L1854318-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1854318-01 05/07/25 23:05 • (DUP) R4211521-6 05/07/25 23:21

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Fluoride	ND	ND	1	3.05		15

Laboratory Control Sample (LCS)

(LCS) R4211521-2 05/07/25 21:43

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	40.0	35.2	88.1	80.0-120	
Fluoride	8.00	7.49	93.6	80.0-120	
Sulfate	40.0	35.2	88.0	80.0-120	

L1854317-27 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1854317-27 05/07/25 21:59 • (MS) R4211521-4 05/07/25 22:32 • (MSD) R4211521-5 05/07/25 22:48

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Chloride	40.0	17.1	52.5	52.7	88.5	88.8	1	80.0-120			0.256	15
Fluoride	8.00	0.458	8.47	8.54	100	101	1	80.0-120			0.750	15
Sulfate	40.0	46.9	76.6	76.9	74.3	75.1	1	80.0-120	J6	J6	0.369	15

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1854318-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1854318-01 05/07/25 23:05 • (MS) R4211521-7 05/07/25 23:37

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Fluoride	8.00	ND	7.42	91.4	1	80.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4210308-1 05/05/25 13:32

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Chloride	U		0.547	1.00
Fluoride	U		0.0761	0.150
Sulfate	U		0.637	5.00

L1854370-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1854370-12 05/05/25 14:26 • (DUP) R4210308-3 05/05/25 14:39

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	7.04	6.71	1	4.82		15
Fluoride	ND	ND	1	9.96		15
Sulfate	42.3	40.0	1	5.56		15

L1854370-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1854370-14 05/05/25 15:46 • (DUP) R4210308-6 05/05/25 16:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	ND	ND	1	0.000		15
Fluoride	ND	ND	1	0.000		15
Sulfate	ND	ND	1	200	P1	15

Laboratory Control Sample (LCS)

(LCS) R4210308-2 05/05/25 13:45

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Chloride	40.0	38.9	97.1	80.0-120	
Fluoride	8.00	8.32	104	80.0-120	
Sulfate	40.0	39.7	99.2	80.0-120	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1854370-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1854370-12 05/05/25 14:26 • (MS) R4210308-4 05/05/25 14:53 • (MSD) R4210308-5 05/05/25 15:06

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	7.04	48.3	48.5	103	104	1	80.0-120			0.422	15
Fluoride	8.00	ND	9.52	9.46	117	117	1	80.0-120			0.604	15
Sulfate	40.0	42.3	76.9	77.0	86.5	86.6	1	80.0-120			0.0474	15

L1854370-14 Original Sample (OS) • Matrix Spike (MS)

(OS) L1854370-14 05/05/25 15:46 • (MS) R4210308-7 05/05/25 16:13

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	ND	42.9	107	1	80.0-120	
Fluoride	8.00	ND	9.53	119	1	80.0-120	
Sulfate	40.0	ND	44.5	105	1	80.0-120	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4212755-1 05/10/25 05:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron	U		0.0233	0.200

1 Cp

2 Tc

3 Ss

Laboratory Control Sample (LCS)

(LCS) R4212755-2 05/10/25 05:06

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	0.974	97.4	80.0-120	

4 Cn

5 Sr

L1854370-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1854370-13 05/10/25 05:07 • (MS) R4212755-4 05/10/25 05:11 • (MSD) R4212755-5 05/10/25 05:13

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron	1.00	0.503	1.49	1.49	98.4	99.0	1	75.0-125			0.360	20

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4212804-1 05/10/25 04:57

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron	U		0.0233	0.200

¹Cp

²Tc

³Ss

Laboratory Control Sample (LCS)

(LCS) R4212804-2 05/10/25 04:59

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	0.964	96.4	80.0-120	

⁴Cn

⁵Sr

L1854376-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1854376-04 05/10/25 05:01 • (MS) R4212804-4 05/10/25 05:04 • (MSD) R4212804-5 05/10/25 05:06

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron	1.00	ND	1.00	1.00	96.2	96.2	1	75.0-125			0.0305	20

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4212445-1 05/09/25 15:26

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Calcium	U		0.0925	1.00

¹Cp

²Tc

³Ss

Laboratory Control Sample (LCS)

(LCS) R4212445-2 05/09/25 15:29

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Calcium	5.00	5.14	103	80.0-120	

⁴Cn

⁵Sr

L1854370-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1854370-01 05/09/25 15:36 • (MS) R4212445-4 05/09/25 15:39 • (MSD) R4212445-5 05/09/25 15:42

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Calcium	5.00	19.5	24.0	23.9	89.7	87.9	1	75.0-125			0.386	20

⁶Qc

⁷Gl

⁸Al

⁹Sc

GLOSSARY OF TERMS

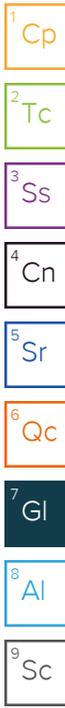
Guide to Reading and Understanding Your Laboratory Report

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
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.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Company Name/Address: Alliance Technical Group - Bryant, AR 219 Brown Lane Little Rock, AR 72022				Billing Information: Accounts Payable 219 Brown Ln. Bryant, AR 72022				Analysis / Container / Preservative				Chain of Custody Page ___ of ___	
Report to: Jonathan Brown 501-847-7077				Email To: Jonathan.Brown@AllianceTG.com; jhouse@trcc				Pres Chk				 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/hubs/pas-standard-terms.pdf	
Project Description: Energy - White Bluff		City/State Collected: <u>Redfield, AR</u>		Please Circle: PT MT <input checked="" type="checkbox"/> ET									
Regulatory Program(DOD,RCRA,DW,etc):		Client Project # 1145-21-080		Lab Project # GBMCBAR-ENTERGYWB		B, Ca 250mlHDPE-HNO3 Cl, F, SO4 250mlHDPE-NoPres TDS 1L-HDPE NoPres				SDG # <u>L1854370</u>			
Collected by (print): <u>Jacob Colbert</u>		Site/Facility ID # CADL - CCR		P.O. #						Table #			
Collected by (signature):		Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day <input type="checkbox"/> STD TAT		Quote #						Acctnum: GBMCBAR			
Immediately Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>		Date Results Needed		No. of Cntrs						Template: T198831			
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time						Remarks	Sample # (lab only)
MW-103D		G	GW		4-27-25	0925	3	X	X	X		pH	-07
MW-104D		G	GW		4-28-25	1045	3	X	X	X		7.24	-08
MW-105D		G	GW		4-29-25	1420	3	✓	X	X		7.49	-09
MW-106D		G	GW		4-30-25	1155	3	X	X	X		7.57	-10
MW-107D		G	GW		4-30-25	1000	3	X	X	X		7.26	-11
MW-108D			GW										
MW-109D			GW										
MW-110D		G	GW		4-24-25	1030	3	X	X	X		7.21	-12
MW-112D			GW										
MW-113D		G	GW		4-30-25	0925	3	X	X	X		6.85	-13
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks: 3				pH _____ Temp _____ Flow _____ Other _____		Sample Receipt Checklist COC Seal Present/Intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N If Applicable VOA Zero Headspace: <input type="checkbox"/> Y <input type="checkbox"/> N Preservation Correct/Checked: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N RAD Screen <0.5 mR/hr: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N					
Relinquished by: (Signature) <u>Jacob Colbert</u>		Date: 5-1-25	Time: 1005	Received by: (Signature)		Trip Blank Received: Yes/No HCL/MeOH TBR		Temp: _____ °C		Bottles Received: <u>51</u>		If preservation required by Login: Date/Time	
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Date:		Time:		Hold:		Condition: NCF / <input checked="" type="checkbox"/> OK	
Relinquished by: (Signature)		Date:	Time:	Received for lab by: (Signature) <u>Demant</u>		Date: 5.2.25		Time: 0900					

Company Name/Address: Alliance Technical Group - Bryant, AR 219 Brown Lane Little Rock, AR 72022		Billing Information: Accounts Payable 219 Brown Ln. Bryant, AR 72022		Pres Chk	Analysis / Container / Preservative								Chain of Custody Page ___ of ___
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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/hubs/pas-standard-terms.pdf>

Report to: Jonathan Brown 501-847-7077	Email To: Jonathan.Brown@AllianceTG.com; jhouse@trcc
--	---

Project Description: Energy - White Bluff	City/State Collected: Redfield, AR	Please Circle: PT MT <input checked="" type="checkbox"/> ET
---	---	--

Regulatory Program(DOD,RCRA,DW,etc):	Client Project # 1145-21-080	Lab Project # GBMCBAR-ENTERGYWB
--------------------------------------	--	---

Collected by (print): Jacob Colbert	Site/Facility ID # CADL - CCR	P.O. #
---	---	--------

Collected by (signature):	Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day <input type="checkbox"/> STD TAT	Quote #	Date Results Needed
---------------------------	---	---------	---------------------

Immediately Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>	No. of Cntrs
--	--------------

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	B, Ca 250mlHDPE-HNO3	Cl, F, SO4 250mlHDPE-NoPres	TDS 1L-HDPE NoPres														
MW-114D		GW																					
MW-115D		GW																					
MW-118D		GW																					
FIELD BLANK 1	G	GW		4-30-25	1245	3	X	X	X														
DUPLICATE 1 (MW-102D)	G	GW		4-30-25	1320	3	X	X	X												7.28	-15	
FIELD BLANK 2	G	GW		4-30-25	1255	3	X	X	X														
DUPLICATE 2 (MW-113D)	G	GW		4-30-25	0925	3	X	X	X													6.85	-17
		GW																					
		GW																					
		GW																					

SDG # **U854370**

Table #

Acctnum: **GBMCBAR**
Template: **T198831**

Prelogin: **P1141577**
PM: **829 - Brittne L Boyd**

PB: **3/26/25 MV**

Shipped Via: **FedEX Priority**

Remarks: **ph** Sample # (lab only)

* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other	Remarks: Duplicate 3 (MW-102D) Date - 4/28/25 pH _____ Temp _____ Flow _____ Other _____	Sample Receipt Checklist COC Seal Present/Intact: <input checked="" type="checkbox"/> NP <input type="checkbox"/> Y <input type="checkbox"/> N COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N If Applicable VOA Zero Headspace: <input type="checkbox"/> Y <input type="checkbox"/> N Preservation Correct/Checked: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N RAD Screen <0.5 mR/hr: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier	Tracking #	

Relinquished by: (Signature) Jacob Colbert	Date: 5-1-25	Time: 1005	Received by: (Signature)	Trip Blank Received: Yes (No) HCL/MeOH TBR
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 51
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) Denson H	Date: 5-2-25 Time: 0900 Hold: Condition: NCF / OK



ANALYTICAL REPORT

May 07, 2025

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

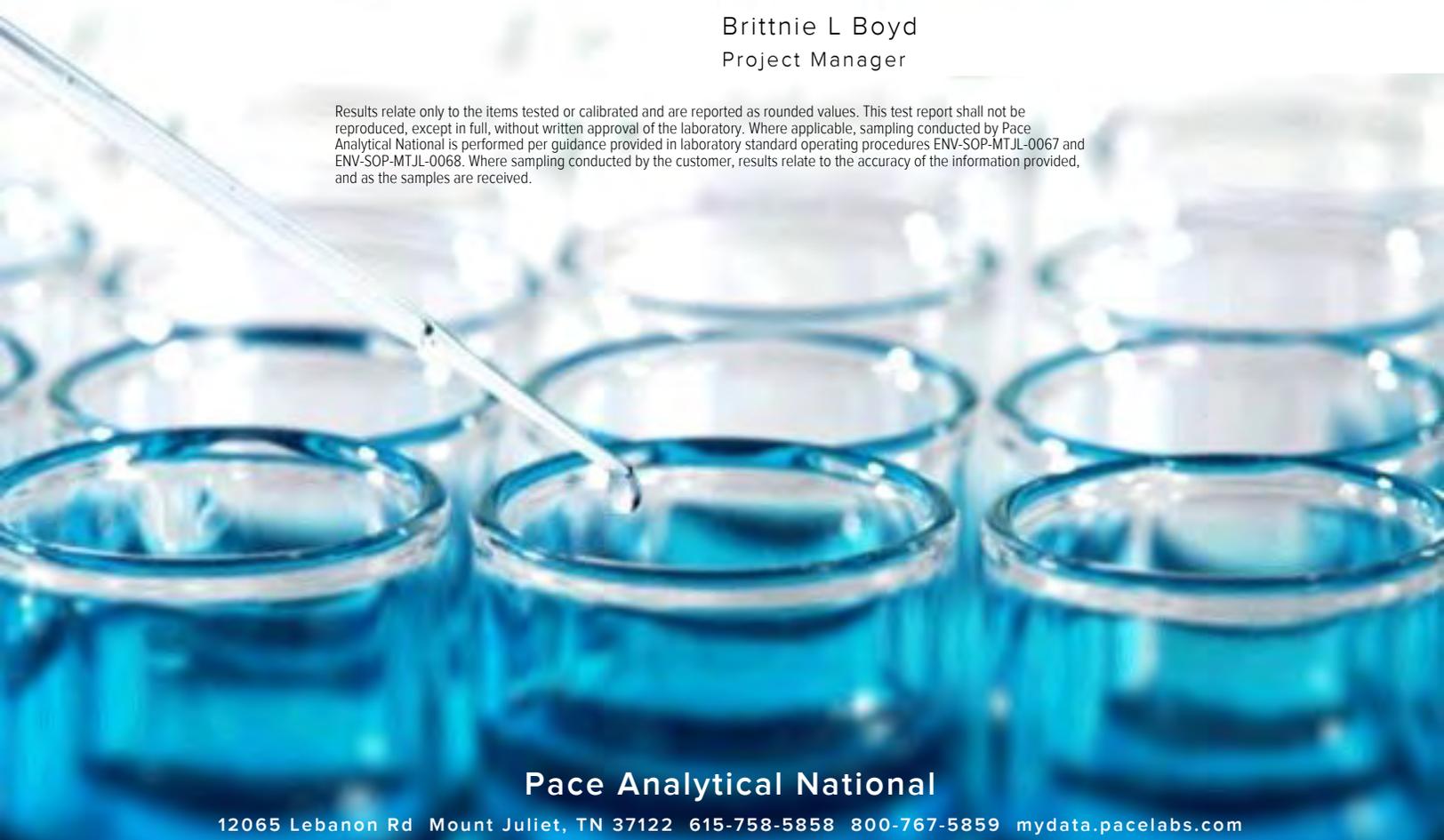
Alliance Technical Group - Bryant, AR

Sample Delivery Group: L1852275
 Samples Received: 04/26/2025
 Project Number: 1145-21-080
 Description: Entergy - White Bluff
 Site: CADL - CCR
 Report To: Jonathan Brown
 219 Brown Lane
 Little Rock, AR 72022

Entire Report Reviewed By:

Brittnie L Boyd
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

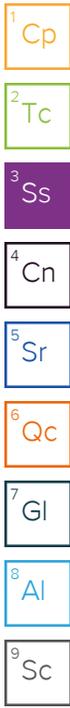
MW-103S L1852275-01 GW

Collected by
Jacob Colbert

Collected date/time
04/22/25 12:05

Received date/time
04/26/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2501806	1	04/28/25 23:00	04/29/25 11:37	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2500767	1	05/01/25 06:59	05/01/25 06:59	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2506603	1	05/06/25 09:23	05/06/25 12:54	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2506671	1	05/05/25 10:32	05/05/25 18:42	UNP	Mt. Juliet, TN



MW-106S L1852275-02 GW

Collected by
Jacob Colbert

Collected date/time
04/22/25 16:10

Received date/time
04/26/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2501806	1	04/28/25 23:00	04/29/25 11:37	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2500767	10	05/01/25 08:04	05/01/25 08:04	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2500767	5	05/01/25 07:51	05/01/25 07:51	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2506603	1	05/06/25 09:23	05/06/25 12:55	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2506671	1	05/05/25 10:32	05/05/25 17:37	UNP	Mt. Juliet, TN

MW-110S L1852275-03 GW

Collected by
Jacob Colbert

Collected date/time
04/22/25 13:35

Received date/time
04/26/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2501806	1	04/28/25 23:00	04/29/25 11:37	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2500767	1	05/01/25 08:17	05/01/25 08:17	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2500767	10	05/01/25 08:30	05/01/25 08:30	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2506603	1	05/06/25 09:23	05/06/25 13:01	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2506671	1	05/05/25 10:32	05/05/25 18:45	UNP	Mt. Juliet, TN

MW-111S L1852275-04 GW

Collected by
Jacob Colbert

Collected date/time
04/22/25 15:00

Received date/time
04/26/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2501806	1	04/28/25 23:00	04/29/25 11:37	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2501035	10	05/01/25 00:44	05/01/25 00:44	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2506603	1	05/06/25 09:23	05/06/25 13:02	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2506671	1	05/05/25 10:32	05/05/25 18:55	UNP	Mt. Juliet, TN

MW-108D L1852275-05 GW

Collected by
Jacob Colbert

Collected date/time
04/22/25 12:40

Received date/time
04/26/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2501806	1	04/28/25 23:00	04/29/25 11:37	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2501035	1	05/01/25 01:11	05/01/25 01:11	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2506603	1	05/06/25 09:23	05/06/25 13:04	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2506671	1	05/05/25 10:32	05/05/25 18:59	UNP	Mt. Juliet, TN

MW-109D L1852275-06 GW

Collected by
Jacob Colbert

Collected date/time
04/22/25 11:25

Received date/time
04/26/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2501806	1	04/28/25 23:00	04/29/25 11:37	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2501035	10	05/01/25 02:05	05/01/25 02:05	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2506603	1	05/06/25 09:23	05/06/25 13:06	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2506671	1	05/05/25 10:32	05/05/25 19:02	UNP	Mt. Juliet, TN

SAMPLE SUMMARY

MW-112D L1852275-07 GW

Collected by: Jacob Colbert
 Collected date/time: 04/22/25 13:45
 Received date/time: 04/26/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2501806	1	04/28/25 23:00	04/29/25 11:37	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2501035	1	05/01/25 02:18	05/01/25 02:18	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2506603	1	05/06/25 09:23	05/06/25 13:07	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2506671	1	05/05/25 10:32	05/05/25 19:05	UNP	Mt. Juliet, TN

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

MW-114D L1852275-08 GW

Collected by: Jacob Colbert
 Collected date/time: 04/22/25 14:50
 Received date/time: 04/26/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2501806	1	04/28/25 23:00	04/29/25 11:37	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2501035	1	05/01/25 02:32	05/01/25 02:32	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2506603	1	05/06/25 09:23	05/06/25 13:09	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2506672	1	05/05/25 08:28	05/06/25 00:05	UNP	Mt. Juliet, TN

MW-115D L1852275-09 GW

Collected by: Jacob Colbert
 Collected date/time: 04/22/25 10:20
 Received date/time: 04/26/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2501806	1	04/28/25 23:00	04/29/25 11:37	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2501035	1	05/01/25 02:59	05/01/25 02:59	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2506603	1	05/06/25 09:23	05/06/25 13:11	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2506672	1	05/05/25 08:28	05/06/25 00:19	UNP	Mt. Juliet, TN

MW-118D L1852275-10 GW

Collected by: Jacob Colbert
 Collected date/time: 04/22/25 16:05
 Received date/time: 04/26/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2501806	1	04/28/25 23:00	04/29/25 11:37	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2501035	10	05/01/25 03:26	05/01/25 03:26	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2506603	1	05/06/25 09:23	05/06/25 13:13	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2506672	1	05/05/25 08:28	05/06/25 00:22	UNP	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.



Brittnie L Boyd
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	4.86	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	151		10.0	1	04/29/2025 11:37	WG2501806

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	5.75		1.00	1	05/01/2025 06:59	WG2500767
Fluoride	ND		0.150	1	05/01/2025 06:59	WG2500767
Sulfate	43.8		5.00	1	05/01/2025 06:59	WG2500767

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	05/06/2025 12:54	WG2506603

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	4.70		1.00	1	05/05/2025 18:42	WG2506671

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	4.03	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	1260		20.0	1	04/29/2025 11:37	WG2501806

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	11.4		5.00	5	05/01/2025 07:51	WG2500767
Fluoride	ND		0.750	5	05/01/2025 07:51	WG2500767
Sulfate	813		50.0	10	05/01/2025 08:04	WG2500767

Sample Narrative:

L1852275-02 WG2500767: Dilution due to matrix impact on instrumentation at lower dilution

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	8.53		0.200	1	05/06/2025 12:55	WG2506603

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	38.7		1.00	1	05/05/2025 17:37	WG2506671

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	4.17	su

1 Cp

2 Tc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	483		10.0	1	04/29/2025 11:37	WG2501806

3 Ss

4 Cn

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	5.91		1.00	1	05/01/2025 08:17	WG2500767
Fluoride	0.228		0.150	1	05/01/2025 08:17	WG2500767
Sulfate	241		50.0	10	05/01/2025 08:30	WG2500767

5 Sr

6 Qc

7 Gl

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	2.47		0.200	1	05/06/2025 13:01	WG2506603

8 Al

9 Sc

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	10.5		1.00	1	05/05/2025 18:45	WG2506671

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	4.86	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	1200		20.0	1	04/29/2025 11:37	WG2501806

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	11.1		10.0	10	05/01/2025 00:44	WG2501035
Fluoride	ND		1.50	10	05/01/2025 00:44	WG2501035
Sulfate	775		50.0	10	05/01/2025 00:44	WG2501035

Sample Narrative:

L1852275-04 WG2501035: Dilution due to matrix impact on instrumentation at lower dilution

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	6.95		0.200	1	05/06/2025 13:02	WG2506603

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	101		1.00	1	05/05/2025 18:55	WG2506671

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.2	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	472		10.0	1	04/29/2025 11:37	WG2501806

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	12.6		1.00	1	05/01/2025 01:11	WG2501035
Fluoride	0.151	<u>B</u>	0.150	1	05/01/2025 01:11	WG2501035
Sulfate	33.1		5.00	1	05/01/2025 01:11	WG2501035

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.349		0.200	1	05/06/2025 13:04	WG2506603

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	65.4		1.00	1	05/05/2025 18:59	WG2506671

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.23	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	372		10.0	1	04/29/2025 11:37	WG2501806

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	ND		10.0	10	05/01/2025 02:05	WG2501035
Fluoride	ND		1.50	10	05/01/2025 02:05	WG2501035
Sulfate	ND		50.0	10	05/01/2025 02:05	WG2501035

Sample Narrative:

L1852275-06 WG2501035: Dilution due to matrix impact on instrumentation at lower dilution

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.319		0.200	1	05/06/2025 13:06	WG2506603

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	49.2		1.00	1	05/05/2025 19:02	WG2506671

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.28	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	326		10.0	1	04/29/2025 11:37	WG2501806

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	6.43		1.00	1	05/01/2025 02:18	WG2501035
Fluoride	ND		0.150	1	05/01/2025 02:18	WG2501035
Sulfate	ND		5.00	1	05/01/2025 02:18	WG2501035

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.291		0.200	1	05/06/2025 13:07	WG2506603

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	43.2		1.00	1	05/05/2025 19:05	WG2506671

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.36	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	327		10.0	1	04/29/2025 11:37	WG2501806

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	7.49		1.00	1	05/01/2025 02:32	WG2501035
Fluoride	ND		0.150	1	05/01/2025 02:32	WG2501035
Sulfate	27.1		5.00	1	05/01/2025 02:32	WG2501035

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.281		0.200	1	05/06/2025 13:09	WG2506603

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	54.2		1.00	1	05/06/2025 00:05	WG2506672

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.12	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	334		10.0	1	04/29/2025 11:37	WG2501806

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	4.53		1.00	1	05/01/2025 02:59	WG2501035
Fluoride	0.161	<u>B</u>	0.150	1	05/01/2025 02:59	WG2501035
Sulfate	ND		5.00	1	05/01/2025 02:59	WG2501035

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.343		0.200	1	05/06/2025 13:11	WG2506603

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	43.7		1.00	1	05/06/2025 00:19	WG2506672

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.08	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	502		10.0	1	04/29/2025 11:37	WG2501806

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	ND		10.0	10	05/01/2025 03:26	WG2501035
Fluoride	ND		1.50	10	05/01/2025 03:26	WG2501035
Sulfate	133		50.0	10	05/01/2025 03:26	WG2501035

Sample Narrative:

L1852275-10 WG2501035: Dilution due to matrix impact on instrumentation at lower dilution

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.289		0.200	1	05/06/2025 13:13	WG2506603

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	83.2		1.00	1	05/06/2025 00:22	WG2506672

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4208348-1 04/29/25 11:37

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	U		10.0	10.0

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1852256-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1852256-01 04/29/25 11:37 • (DUP) R4208348-3 04/29/25 11:37

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	147	151	1	2.68		10

L1852256-16 Original Sample (OS) • Duplicate (DUP)

(OS) L1852256-16 04/29/25 11:37 • (DUP) R4208348-4 04/29/25 11:37

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	ND	ND	1	200	P1	10

Laboratory Control Sample (LCS)

(LCS) R4208348-2 04/29/25 11:37

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8790	99.9	90.0-110	

Method Blank (MB)

(MB) R4208275-1 05/01/25 00:58

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.547	1.00
Fluoride	U		0.0761	0.150
Sulfate	U		0.637	5.00

L1852256-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1852256-11 05/01/25 04:25 • (DUP) R4208275-3 05/01/25 04:38

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Chloride	1.38	1.39	1	0.801		15
Fluoride		ND	1	0.000		15
Sulfate	25.3	26.6	1	5.10		15

L1852256-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1852256-12 05/01/25 05:16 • (DUP) R4208275-6 05/01/25 05:29

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Chloride	19.0	18.9	1	0.543		15
Fluoride		ND	1	200	P1	15
Sulfate	60.8	60.9	1	0.160		15

Laboratory Control Sample (LCS)

(LCS) R4208275-2 05/01/25 01:11

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	38.5	96.3	80.0-120	
Fluoride	8.00	7.63	95.4	80.0-120	
Sulfate	40.0	39.2	98.1	80.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1852256-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852256-11 05/01/25 04:25 • (MS) R4208275-4 05/01/25 04:51 • (MSD) R4208275-5 05/01/25 05:03

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	1.38	38.3	38.4	92.2	92.5	1	80.0-120			0.298	15
Fluoride	8.00		7.47	7.50	93.4	93.7	1	80.0-120			0.355	15
Sulfate	40.0	25.3	58.2	58.4	82.3	82.6	1	80.0-120			0.245	15

L1852256-12 Original Sample (OS) • Matrix Spike (MS)

(OS) L1852256-12 05/01/25 05:16 • (MS) R4208275-7 05/01/25 05:42

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	19.0	52.3	83.2	1	80.0-120	
Fluoride	8.00		7.42	91.8	1	80.0-120	
Sulfate	40.0	60.8	85.4	61.3	1	80.0-120	<u>J6</u>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4209287-1 05/01/25 00:17

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Chloride	U		0.547	1.00
Fluoride	0.0783	↓	0.0761	0.150
Sulfate	U		0.637	5.00

L1852275-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1852275-05 05/01/25 01:11 • (DUP) R4209287-3 05/01/25 01:24

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	12.6	12.1	1	4.33		15
Fluoride	0.151	ND	1	2.41		15
Sulfate	33.1	31.8	1	4.02		15

L1852278-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1852278-07 05/01/25 06:48 • (DUP) R4209287-6 05/01/25 07:02

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	6.43	6.55	1	1.82		15
Fluoride	0.161	0.151	1	6.99		15
Sulfate	ND	ND	1	1.10		15

Laboratory Control Sample (LCS)

(LCS) R4209287-2 05/01/25 00:30

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Chloride	40.0	38.7	96.8	80.0-120	
Fluoride	8.00	7.90	98.8	80.0-120	
Sulfate	40.0	39.8	99.6	80.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1852275-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852275-05 05/01/25 01:11 • (MS) R4209287-4 05/01/25 01:38 • (MSD) R4209287-5 05/01/25 01:51

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	12.6	49.2	49.1	91.6	91.2	1	80.0-120			0.323	15
Fluoride	8.00	0.151	8.16	8.23	100	101	1	80.0-120			0.800	15
Sulfate	40.0	33.1	65.9	66.0	81.9	82.2	1	80.0-120			0.164	15

L1852278-07 Original Sample (OS) • Matrix Spike (MS)

(OS) L1852278-07 05/01/25 06:48 • (MS) R4209287-7 05/01/25 07:15

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	6.43	45.3	97.2	1	80.0-120	
Fluoride	8.00	0.161	8.49	104	1	80.0-120	
Sulfate	40.0	ND	45.4	101	1	80.0-120	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4210542-1 05/06/25 12:40

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron	U		0.0233	0.200

1 Cp

2 Tc

3 Ss

Laboratory Control Sample (LCS)

(LCS) R4210542-2 05/06/25 12:42

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	0.978	97.8	80.0-120	

4 Cn

5 Sr

L1852262-29 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852262-29 05/06/25 12:43 • (MS) R4210542-4 05/06/25 12:47 • (MSD) R4210542-5 05/06/25 12:48

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron	1.00	ND	1.11	1.09	96.2	94.3	1	75.0-125			1.73	20

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4210055-1 05/05/25 17:31

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Calcium	U		0.0925	1.00

¹Cp

²Tc

³Ss

Laboratory Control Sample (LCS)

(LCS) R4210055-2 05/05/25 17:34

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Calcium	5.00	5.15	103	80.0-120	

⁴Cn

⁵Sr

L1852275-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852275-02 05/05/25 17:37 • (MS) R4210055-4 05/05/25 17:44 • (MSD) R4210055-5 05/05/25 17:47

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Calcium	5.00	38.7	43.2	43.1	90.1	89.4	1	75.0-125			0.0789	20

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4210174-1 05/05/25 23:59

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Calcium	U		0.0925	1.00

1 Cp

2 Tc

3 Ss

Laboratory Control Sample (LCS)

(LCS) R4210174-2 05/06/25 00:02

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Calcium	5.00	5.02	100	80.0-120	

4 Cn

5 Sr

L1852275-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852275-08 05/06/25 00:05 • (MS) R4210174-4 05/06/25 00:12 • (MSD) R4210174-5 05/06/25 00:15

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Calcium	5.00	54.2	59.3	58.1	101	77.8	1	75.0-125			2.00	20

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.
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
B	The same analyte is found in the associated blank.
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.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Company Name/Address: Alliance Technical Group - Bryant, AR 219 Brown Lane Little Rock, AR 72022		Billing Information: Accounts Payable 219 Brown Ln. Bryant, AR 72022		Pres Chk	Analysis / Container / Preservative								Chain of Custody Page ___ of ___
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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/hubs/pas-standard-terms.pdf>

Report to: Jonathan Brown 501-847-7077		Email To: Jonathan.Brown@AllianceTG.com;Jhouse@trcc	
Project Description: Entergy - White Bluff		City/State Collected: Relfield, AR	Please Circle: PT MT <input checked="" type="checkbox"/> ET

Regulatory Program (DOD, RCRA, DW, etc):	Client Project # 1145-21-080	Lab Project # GBMCBAR-ENTERGYWB
Collected by (print): <i>Jacob Colbert</i>	Site/Facility ID # CADL - CCR	P.O. #
Collected by (signature):	Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day <input type="checkbox"/> STD TAT	Quote # Date Results Needed
Immediately Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>		No. of Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	B, Ca 250miHDPE-HNO3	Cl, F, SO4 250miHDPE-NoPres	TDS 1L-HDPE NoPres									
MW-103D		GW																
MW-104D		GW																
MW-105D		GW																
MW-106D		GW																
MW-107D		GW																
MW-108D	G	GW		4-23-25	1240	3	X	X	X								7.20	-05
MW-109D	G	GW		4-23-25	1125	3	X	X	X								7.23	06
MW-110D		GW																
MW-112D	G	GW		4-23-25	1345	3	X	X	X								7.28	07
MW-113D		GW																

* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other _____	Remarks: pH _____ Temp _____ Flow _____ Other _____	Sample Receipt Checklist COC Seal Present/Intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N If Applicable VOA Zero Headspace: <input type="checkbox"/> Y <input type="checkbox"/> N Preservation Correct/Checked: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N RAD Screen <0.5 mR/hr: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Samples returned via: _ UPS _ FedEx _ Courier _____	Tracking # _____	

Relinquished by: (Signature) <i>Jacob Colbert</i>	Date: 4-25-25	Time: 1325	Received by: (Signature) <i>TJAG</i>	Trip Blank Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> HCL / MeOH TBR
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C <i>multi</i> 30
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <i>IX</i>	Date: 4-26-25 Time: 0845

If preservation required by Login: Date/Time
Hold:
Condition: NCF / OK

Company Name/Address: Alliance Technical Group - Bryant, AR 219 Brown Lane Little Rock, AR 72022		Billing Information: Accounts Payable 219 Brown Ln. Bryant, AR 72022		Pres Chk	Analysis / Container / Preservative							Chain of Custody Page ___ of ___
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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: <http://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

Report to: Jonathan Brown 501-847-7077	Email To: Jonathan.Brown@AllianceTG.com; jhouse@trcc	
Project Description: Entergy - White Bluff	City/State Collected: Redf. 10/2, AR	Please Circle: PT MT <input checked="" type="checkbox"/> ET

Regulatory Program(DOD,RCRA,DW,etc):	Client Project # 1145-21-080	Lab Project # GBMCBAR-ENTERGYWB
Collected by (print): <i>Jacob Colborn</i>	Site/Facility ID # CADL - CCR	P.O. #
Collected by (signature):	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
Immediately Packed on Ice N ___ Y <input checked="" type="checkbox"/>		No. of Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	B, Ca 250mlHDPE-HNO3	Cl, F, SO4 250mlHDPE-NoPres	TDS 1L-HDPE NoPres									
MW-114D	G	GW		4-23-25	1450	3	X	X	X									
MW-115D	G	GW		4-23-25	1020	3	X	X	X									
MW-118D	G	GW		4-23-25	1605	3	X	X	X									
FIELD BLANK 1		GW																
DUPLICATE 1		GW																
FIELD BLANK 2		GW																
DUPLICATE 2		GW																
		GW																
		GW																

SDG # **L18522B**

Table #

Acctnum: **GBMCBAR**
Template: **T198831**
Prelogin: **P1141577**
PM: **829 - Brittne L Boyd**
PB:

Shipped Via: **FedEX Priority**

* 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: <input checked="" type="checkbox"/> NP Y ___ N ___ COC Signed/Accurate: <input checked="" type="checkbox"/> Y ___ N ___ Bottles arrive intact: <input checked="" type="checkbox"/> Y ___ N ___ Correct bottles used: <input checked="" type="checkbox"/> Y ___ N ___ Sufficient volume sent: <input checked="" type="checkbox"/> Y ___ N ___ if Applicable VOA Zero HeadSpace: <input checked="" type="checkbox"/> Y ___ N ___ Preservation Correct/Checked: <input checked="" type="checkbox"/> Y ___ N ___ RAD Screen <0.5 mR/hr: <input checked="" type="checkbox"/> Y ___ N ___	
Relinquished by: (Signature) <i>Jacob Colborn</i>	Date: 4-25-25	Time: 1325	Received by: (Signature) <i>TAG</i>		Trip Blank Received: Yes <input checked="" type="checkbox"/> (No) HCL/MeOH TBR		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)		Temp: °C Bottles Received: 30		
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <i>lrc</i>		Date: 4-26-25 Time: 0845 Hold: Condition: NCF <input checked="" type="checkbox"/> OK		

APPENDIX 5

Field Sampling Forms

GROUNDWATER SAMPLING LOG

5004/min

SITE NAME: White Bluff	SITE LOCATION: Redfield, AR
WELL NO: MW-101S	SAMPLE ID: MW-101S DATE: 4/29/25

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/8"	TOTAL WATER DEPTH (feet): 49.10	STATIC DEPTH TO WATER (feet): 37.15	PURGE PUMP TYPE OR BAILER: BP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				
= (feet - feet) X gallons/foot = N/A gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				
= gallons + (gallons/foot X feet) + gallons = N/A gallons				

PUMP OR TUBING DEPTH IN WELL (feet): 46'	WELL SCREEN INTERVAL DEPTH: feet to feet	PURGING INITIATED AT: 1100	PURGING ENDED AT: 1150	TOTAL VOLUME PURGED (gallons): .462
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TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	Redox (mV)	Turbidity (NTU)	COLOR / ODOR (describe)
1105	.066	.066	.0132	37.32	7.13	24.06	102	4.64	123	15.2	
1110	.066	.132			6.07	23.82	283	1.61	148	14.1	
1115	.066	.198			6.05	23.69	297	1.11	152	8.4	
1120	.066	.264		37.43	6.60	23.83	301	1.00	151	9.7	
1125	.066	.330			6.08	23.81	299	.97	149	5.8	
1130	.066	.396			5.98	23.57	289	.94	144	5.0	
1135	.066	.462		37.43	5.90	23.55	275	.69	128	4.1	
1140	.066	.528			5.85	23.65	269	.55	119	3.7	
1145	.066	.594			5.85	23.63	266	.53	113	3.9	
1150	.066	.660		37.45	5.85	23.85	266	.51	112	3.7	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JLC / MSD	SAMPLER(S) SIGNATURE(S): MSD	SAMPLING INITIATED AT: 1150	SAMPLING ENDED AT: 1158
PUMP OR TUBING DEPTH IN WELL (feet): 46'	TUBING MATERIAL CODE:	FIELD-FILTERED: Y <input checked="" type="radio"/> N <input type="radio"/>	FILTER SIZE: _____ μm
FIELD DECONTAMINATION: PUMP <input checked="" type="radio"/> N <input type="radio"/>	TUBING Y <input checked="" type="radio"/> N (replaced) <input type="radio"/>	DUPLICATE: Y <input checked="" type="radio"/> N <input type="radio"/>	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	Final pH/Temp			

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS
pH: ± 0.1 units **Temperature:** ± 3% **Specific Conductance:** ± 3% **Dissolved Oxygen:** (10% for values greater than 0.5 mg/L, if three dissolved oxygen values are less than 0.5 mg/L, consider the values as stabilized) **Turbidity:** (10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized) **Oxidation/Reduction Potential:** ± 10 millivolts

GROUNDWATER SAMPLING LOG

125 mL/min

SITE NAME: White Bluff	SITE LOCATION: Redfield, Ar
WELL NO: MW-101D	SAMPLE ID: MW-101D DATE: 4/29/25

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/8"	TOTAL WATER DEPTH (feet): 116.0	STATIC DEPTH TO WATER (feet): 96.75	PURGE PUMP TYPE OR BAILER: BP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = 1 feet - 96.75 feet X 125 gallons/foot = N/A gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = 1 gallons + (1 gallons/foot X 1 feet) + 0 gallons = N/A gallons				

PUMP OR TUBING DEPTH IN WELL (feet): 113'	WELL SCREEN INTERVAL DEPTH: 97.09 feet to 97.22 feet	PURGING INITIATED AT: 1220	PURGING ENDED AT: 1310	TOTAL VOLUME PURGED (gallons): 1.66
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TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	Redox (mV)	Turbidity (NTU)	COLOR / ODOR (describe)
1225	.165	.165	.0330	97.09	6.57	25.33	485	1.34	125	41.3	
1230	.165	.33			6.72	24.46	522	0.66	119	42.2	
1235	.165	.495			6.74	24.19	531	0.55	120	31.3	
1240	.165	.66		97.12	6.70	23.79	535	0.53	100	26.3	
1245	.165	.825			6.79	23.62	534	0.50	50	21.3	
1250	.165	.99			6.80	23.67	538	0.43	12	18.0	
1255	.165	1.16		97.20	6.82	23.87	542	0.42	-10	14.8	
1300	.165	1.33			6.83	23.84	545	0.45	-23	10.5	
1305	.165	1.50			6.84	23.84	548	0.43	-28	10.8	
1310	.165	1.66		97.22	6.85	23.81	549	0.43	-32	10.7	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JLC/MSD	SAMPLER(S) SIGNATURE(S): msd	SAMPLING INITIATED AT: 1310	SAMPLING ENDED AT: 1329
PUMP OR TUBING DEPTH IN WELL (feet): 113'	TUBING MATERIAL CODE:	FIELD-FILTERED: Y <input checked="" type="radio"/> N <input checked="" type="radio"/>	FILTER SIZE: _____ μm
FIELD DECONTAMINATION: PUMP <input checked="" type="radio"/> N <input type="radio"/>	TUBING Y <input checked="" type="radio"/> N (replaced) <input type="radio"/>	DUPLICATE: Y <input checked="" type="radio"/> N <input type="radio"/>	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	Final pH/Temp			
				SEE	COC				

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS
 pH: ± 0.1 units Temperature: ± 3% Specific Conductance: ± 3% Dissolved Oxygen: (10% for values greater than 0.5 mg/L, if three dissolved oxygen values are less than 0.5 mg/L, consider the values as stabilized) Turbidity: (10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized) Oxidation/Reduction Potential: ± 10 millivolts

80 mL/min

GROUNDWATER SAMPLING LOG

SITE NAME: White Bluff	SITE LOCATION: Redfield, Ar.
WELL NO: MW-102S	SAMPLE ID: MW-102S DATE: 4/28/05

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/8"	TOTAL WATER DEPTH (feet): 53.10	STATIC DEPTH TO WATER (feet): 33.67	PURGE PUMP TYPE OR BAILER: BP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
PUMP OR TUBING DEPTH IN WELL (feet): 50'	WELL SCREEN INTERVAL DEPTH: feet to feet	PURGING INITIATED AT: 1120	PURGING ENDED AT: 1215	TOTAL VOLUME PURGED (gallons): 1.266							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) $\mu\text{mhos/cm}$ or $\mu\text{S/cm}$	DISSOLVED OXYGEN (circle units) mg/L or % saturation	Redox (mV)	Turbidity (NTU)	COLOR / ODOR (describe)
1125	.106	.106	.0211	34.20	7.43	28.19	380	5.68	-40	87.6	
1130	.100	.212			6.80	30.01	329	2.17	28	107	
1135	.106	.318			6.42	32.61	233	4.22	72	91.3	
1140	.106	.424		34.82	6.36	32.86	200	3.81	90	74.0	
1145	.106	.53			6.32	33.42	189	3.47	97	67.1	
1150	.106	.636			6.20	33.19	185	3.18	112	60.6	
1155	.106	.742		35.15	6.12	33.42	184	2.89	105	59.4	
1200	.106	.848			6.21	34.12	182	2.7	102	55.1	
1205	.106	.954			6.19	34.20	180	2.44	110	45.2	
1210	.106	1.140		35.22	6.19	34.18	179	2.26	104	43.1	
1215	.106	1.266		35.25	6.25	34.03	179	2.24	108	40.9	
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JLC/msd			SAMPLER(S) SIGNATURE(S): msd			SAMPLING INITIATED AT: 1215		SAMPLING ENDED AT: 1232	
PUMP OR TUBING DEPTH IN WELL (feet): 50'			TUBING MATERIAL CODE:		FIELD-FILTERED: Y		FILTER SIZE: 0 μm		
FIELD DECONTAMINATION: PUMP 0 N			TUBING 0 N (replaced)			DUPLICATE: Y 0			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	Final pH/Temp			
REMARKS:									
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)									
SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)									

NOTES: 1. The above do not constitute all of the information required by
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS
pH: ± 0.1 units **Temperature:** $\pm 3\%$ **Specific Conductance:** $\pm 3\%$ **Dissolved Oxygen:** (10% for values greater than 0.5 mg/L, if three dissolved oxygen values are less than 0.5 mg/L, consider the values as stabilized) **Turbidity:** (10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized) **Oxidation/Reduction Potential:** ± 10 millivolts

GROUNDWATER SAMPLING LOG

120 ml/min

SITE NAME: White Bluff	SITE LOCATION: Redfield, Ar.
WELL NO: MW-102D	DATE: 4/28/25

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/8"	TOTAL WATER DEPTH (feet): 111.75	STATIC DEPTH TO WATER (feet): 91.20	PURGE PUMP TYPE OR BAILER: BP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				

PUMP OR TUBING DEPTH IN WELL (feet): 107'	WELL SCREEN INTERVAL DEPTH: feet to feet	PURGING INITIATED AT: 1240	PURGING ENDED AT: 1320	TOTAL VOLUME PURGED (gallons): 1.27
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TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	Redox (mV)	Turbidity (NTU)	COLOR / ODOR (describe)
1245	.159	.159	.0317	91.42	6.59	32.02	247	1.28	98	92.6	
1250	.159	.318			7.04	29.90	425	0.88	-12	73.2	
1255	.159	.477			7.35	28.14	543	0.90	-53	54.6	
1300	.159	.636		93.13	7.43	27.34	565	0.95	-67	49.0	
1305	.159	.795			7.39	27.15	568	0.92	-70	52.6	
1310	.159	.954			7.30	26.45	577	.96	-67	49.2	
1315	.159	1.11		95.33	7.29	27.04	579	.92	-69	47.7	
1320	.159	1.27		96.82	7.28	26.77	579	.95	-69	46.1	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JLC / MSD	SAMPLER(S) SIGNATURE(S): MSD	SAMPLING INITIATED AT: 1320	SAMPLING ENDED AT: 1356
PUMP OR TUBING DEPTH IN WELL (feet): 107'	TUBING MATERIAL CODE:	FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	FILTER SIZE: _____ μm
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N <input type="checkbox"/>	TUBING Y <input checked="" type="checkbox"/> N (replaced) <input type="checkbox"/>	DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL. ADDED IN FIELD (mL)	Final pH/Temp			
				SEE COC					

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

- NOTES:** 1. The above do not constitute all of the information required by
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS
 pH: ± 0.1 units Temperature: ± 3% Specific Conductance: ± 3% Dissolved Oxygen: (10% for values greater than 0.5 mg/L, if three dissolved oxygen values are less than 0.5 mg/L, consider the values as stabilized) Turbidity: (10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized) Oxidation/Reduction Potential: ± 10 millivolts

GROUNDWATER SAMPLING LOG

125ml/min

SITE NAME: White Bluff	SITE LOCATION: Redfield, Av
WELL NO: MW-103D	SAMPLE ID: MW-103D
DATE: 4/29/25	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/8"	TOTAL WATER DEPTH (feet): 85.1	STATIC DEPTH TO WATER (feet): 41.44	PURGE PUMP TYPE OR BAILER: BP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				
= (feet - feet) X gallons/foot = gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				
= gallons + (gallons/foot X feet) + gallons = gallons				

PUMP OR TUBING DEPTH IN WELL (feet): 60'	WELL SCREEN INTERVAL DEPTH: feet to feet	PURGING INITIATED AT: 0850	PURGING ENDED AT: 0925	TOTAL VOLUME PURGED (gallons): 1.10
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TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	Redox (mV)	Turbidity (NTU)	COLOR / ODOR (describe)
0855	.165	.165	.0330	41.87	6.33	22.55	541	3.08	216	18.5	
0900	.165	.33			6.95	21.90	726	1.25	184	5.0	
0905	.165	.495			7.03	21.75	750	0.90	171	3.9	
0910	.165	.660		44.70	7.08	21.88	756	0.76	162	2.7	
0915	.165	.825			7.12	21.87	758	0.60	156	0.0	
0920	.165	.99			7.14	21.83	759	0.63	152	2.1	
0925	.165	1.16		47.43	7.16	21.79	759	0.60	149	2.4	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JLC / MSD	SAMPLER(S) SIGNATURE(S): MSD	SAMPLING INITIATED AT: 0925	SAMPLING ENDED AT: 0940
PUMP OR TUBING DEPTH IN WELL (feet): 60'	TUBING MATERIAL CODE:	FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	FILTER SIZE: _____ μm
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N <input type="checkbox"/>	TUBING <input checked="" type="checkbox"/> N (replaced) <input type="checkbox"/>	DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	Final pH/Temp			

REMARKS: **Horiba calibrated prior to purging.**

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS
pH: ± 0.1 units **Temperature:** ± 3% **Specific Conductance:** ± 3% **Dissolved Oxygen:** (10% for values greater than 0.5 mg/L, if three dissolved oxygen values are less than 0.5 mg/L, consider the values as stabilized) **Turbidity:** (10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized) **Oxidation/Reduction Potential:** ± 10 millivolts

100mL/min

GROUNDWATER SAMPLING LOG

SITE NAME: White Bluff SITE LOCATION: Redfield, Ar.
 WELL NO: MW-105S SAMPLE ID: MW-105S DATE: 4/30/25

PURGING DATA

WELL DIAMETER (inches): 2" TUBING DIAMETER (inches): 1/8" TOTAL WATER DEPTH (feet): 46.31 STATIC DEPTH TO WATER (feet): 27.64 PURGE PUMP TYPE OR BAILER: BP
 WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = () feet - () feet X () gallons/foot = () gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = () gallons + () gallons/foot X () feet + () gallons = () gallons
 PUMP OR TUBING DEPTH IN WELL (feet): 45' WELL SCREEN INTERVAL DEPTH: () feet to () feet PURGING INITIATED AT: 1215 PURGING ENDED AT: 1245 TOTAL VOLUME PURGED (gallons): .78

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	Redox (mV)	Turbidity (NTU)	COLOR / ODOR (describe)
1220	.13	.13	.0026	28.06	6.82	32.00	149	4.01	57	21.8	
1225	.13	.26			5.79	31.74	194	1.34	99	22.8	
1230	.13	.39			5.78	32.21	200	0.65	97	21.2	
1235	.13	.52		28.45	5.83	32.14	202	0.49	94	21.2	
1240	.13	.65			5.81	32.14	201	0.46	94	22.1	
1245	.13	.78		28.55	5.85	31.86	200	0.46	93	22.2	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JLC/MSD SAMPLER(S) SIGNATURE(S): msd SAMPLING INITIATED AT: 1245 SAMPLING ENDED AT: 1303
 PUMP OR TUBING DEPTH IN WELL (feet): 45' TUBING MATERIAL CODE: _____ FIELD-FILTERED: Y (N) FILTER SIZE: _____ μm
 FIELD DECONTAMINATION: PUMP (Y) N TUBING Y (N replaced) DUPLICATE: Y (N)
 SAMPLE CONTAINER SPECIFICATION SAMPLE PRESERVATION (including wet ice) INTENDED ANALYSIS AND/OR METHOD SAMPLING EQUIPMENT CODE SAMPLE PUMP FLOW RATE (mL per minute)

SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	Final pH/Temp	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
<u>SEE COC</u>									

REMARKS: Fluoride corrected
 MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
 SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS
 pH: ± 0.1 units Temperature: ± 3% Specific Conductance: ± 3% Dissolved Oxygen: (10% for values greater than 0.5 mg/L, if three dissolved oxygen values are less than 0.5 mg/L, consider the values as stabilized) Turbidity: (10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized) Oxidation/Reduction Potential: ± 10 millivolts

GROUNDWATER SAMPLING LOG

120 ml/min

SITE NAME: White Bluff	SITE LOCATION: Redfield, Ar
WELL NO: MW-105D	SAMPLE ID: MW-105D
DATE: 4/29/25	

PURGING DATA

WELL DIAMETER (inches): 2 1/8	TUBING DIAMETER (inches): 1 1/8	TOTAL WATER DEPTH (feet): 116.11	STATIC DEPTH TO WATER (feet): 79.84	PURGE PUMP TYPE OR BAILER: BP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				
= (feet - feet) X gallons/foot = gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				
= gallons + (gallons/foot X feet) + gallons = gallons				

PUMP OR TUBING DEPTH IN WELL (feet): 100'	WELL SCREEN INTERVAL DEPTH: feet to feet	PURGING INITIATED AT: 1350	PURGING ENDED AT: 1420	TOTAL VOLUME PURGED (gallons): 954							
TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	Redox (mV)	Turbidity (NTU)	COLOR / ODOR (describe)
1355	.159	.159		79.84	7.33	27.17	560	1.95	-108	45.1	
1400	.159	.318			7.37	26.45	563	2.50	-128	30.2	
1405	.159	.477			7.41	26.13	558	2.94	-139	14.8	
1410	.159	.636		83.15	7.45	25.64	557	3.54	-144	10.7	
1415	.159	.795			7.47	25.43	560	3.35	-146	10.2	
1420	.159	.954		84.35	7.49	25.51	561	3.62	-148	9.9	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JLC/msp	SAMPLER(S) SIGNATURE(S): msp	SAMPLING INITIATED AT: 1420	SAMPLING ENDED AT: 1436						
PUMP OR TUBING DEPTH IN WELL (feet): 100'	TUBING MATERIAL CODE:	FIELD-FILTERED: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	FILTER SIZE: _____ μm						
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N <input type="checkbox"/> TUBING <input checked="" type="checkbox"/> N (replaced) <input type="checkbox"/>	DUPLICATE: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>								
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	Final pH/Temp			
				SEC	COC				

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

- NOTES:** 1. The above do not constitute all of the information required by
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS
 pH: ± 0.1 units Temperature: ± 3% Specific Conductance: ± 3% Dissolved Oxygen: (10% for values greater than 0.5 mg/L, if three dissolved oxygen values are less than 0.5 mg/L, consider the values as stabilized) Turbidity: (10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized) Oxidation/Reduction Potential: ± 10 millivolts

125 mL/min

$5 \times 0.0330 = .165$

GROUNDWATER SAMPLING LOG

SITE NAME: White Bluff	SITE LOCATION: Redfield, Ar.
WELL NO: MW-106S	SAMPLE ID: MW-106S
DATE: 4/22/25	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/8"	TOTAL WATER DEPTH (feet): 25.93	STATIC DEPTH TO WATER (feet): 9.01	PURGE PUMP TYPE OR BAILER: BP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				
$= (\text{feet} - \text{feet}) \times \text{gallons/foot} = \text{N/A} \text{ gallons}$				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				
$= \text{gallons} + (\text{gallons/foot} \times \text{feet}) + \text{gallons} = \text{N/A} \text{ gallons}$				

PUMP OR TUBING DEPTH IN WELL (feet): 22'	WELL SCREEN INTERVAL DEPTH: 22'	PURGING INITIATED AT: 1535	PURGING ENDED AT: 1610	TOTAL VOLUME PURGED (gallons): 1.15
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TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	Redox (mV)	Turbidity (NTU)	COLOR / ODOR (describe)
1540	.165	.165	0.0330	9.2	4.05	28.75	1650	1.51	427	9.0	
1545	.165	.33			4.00	28.57	1770	0.88	429	4.7	
1550	.165	.495			4.0	28.28	1800	0.64	426	4.9	
1555	.165	.660		9.2	4.02	28.4	1790	0.57	421	4.8	
1600	.165	.825			4.03	27.99	1780	0.49	416	2.9	
1605	.165	.99			4.03	27.23	1790	0.47	417	2.8	
1610	.165	1.15		9.22	4.03	27.18	1780	0.43	417	1.7	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JLC/msd	SAMPLER(S) SIGNATURE(S): msd	SAMPLING INITIATED AT: 1610	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 22'	TUBING MATERIAL CODE:	FIELD-FILTERED: Y <input checked="" type="radio"/> N <input type="radio"/>	FILTER SIZE: _____ μm
FIELD DECONTAMINATION: PUMP <input checked="" type="radio"/> N <input type="radio"/> TUBING Y <input checked="" type="radio"/> N (replaced) <input type="radio"/>		DUPLICATE: Y <input type="radio"/> N <input checked="" type="radio"/>	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	Final pH/Temp			
SEE COC									

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

- NOTES:**
- The above do not constitute all of the information required by
 - STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS
 pH: ± 0.1 units Temperature: ± 3% Specific Conductance: ± 3% Dissolved Oxygen: (10% for values greater than 0.5 mg/L, if three dissolved oxygen values are less than 0.5 mg/L, consider the values as stabilized) Turbidity: (10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized) Oxidation/Reduction Potential: ± 10 millivolts

GROUNDWATER SAMPLING LOG

125 mL/min

SITE NAME: White Bluff	SITE LOCATION: Redfield, Ar
WELL NO: MW-106D	SAMPLE ID: MW-106D DATE: 4/30/25

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/8"	TOTAL WATER DEPTH (feet): 86.94	STATIC DEPTH TO WATER (feet): 42.32'	PURGE PUMP TYPE OR BAILER: BP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (feet - feet) X gallons/foot = gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons				

PUMP OR TUBING DEPTH IN WELL (feet): 42'	WELL SCREEN INTERVAL DEPTH: feet to feet	PURGING INITIATED AT: 1155	PURGING ENDED AT: 1155	TOTAL VOLUME PURGED (gallons): 1.32							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	Redox (mV)	Turbidity (NTU)	COLOR / ODOR (describe)
1120	.165	.165	.0330	43.68	7.8	28.10	331	4.03	9	21.8	
1125	.165	.33			7.34	28.73	554	3.40	-109	19.0	
1130	.165	.495			7.30	28.88	568	3.21	-126	22.1	
1135	.165	.66		44.93	7.41	28.73	560	3.46	-133	22.9	
1140	.165	.825			7.44	28.60	580	3.49	-141	16.5	
1145	.165	.99			7.51	30.03	598	3.45	-148	16.6	
1150	.165	1.15		47.48	7.57	30.45	591	3.42	-151	16.1	
1155	.165	1.32		48.13	7.57	30.29	591	3.37	-147	15.9	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JLC/msd	SAMPLER(S) SIGNATURE(S): msd	SAMPLING INITIATED AT: 1155	SAMPLING ENDED AT: 1201			
PUMP OR TUBING DEPTH IN WELL (feet): 62'	TUBING MATERIAL CODE:	FIELD-FILTERED: Y <input checked="" type="radio"/> N <input type="radio"/>	FILTER SIZE: _____ μm			
FIELD DECONTAMINATION: PUMP <input checked="" type="radio"/> N TUBING Y <input checked="" type="radio"/> N (replaced)	DUPLICATE: Y <input checked="" type="radio"/> N <input type="radio"/>					
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION (including wet ice)		INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	Final pH/Temp
SEE COC						

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

- NOTES:** 1. The above do not constitute all of the information required by
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS
pH: ± 0.1 units **Temperature:** ± 3% **Specific Conductance:** ± 3% **Dissolved Oxygen:** (10% for values greater than 0.5 mg/L, if three dissolved oxygen values are less than 0.5 mg/L, consider the values as stabilized) **Turbidity:** (10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized) **Oxidation/Reduction Potential:** ± 10 millivolts

GROUNDWATER SAMPLING LOG

100mL/min

SITE NAME: White Bluff	SITE LOCATION: Redfield, Ar.
WELL NO: MW-107D	SAMPLE ID: MW-107D
DATE: 4/30/25	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/8"	TOTAL WATER DEPTH (feet): 67.25	STATIC DEPTH TO WATER (feet): 21.4	PURGE PUMP TYPE OR BAILER: BP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = (46.85 feet - 21.4 feet) X 0.0006 gallons/foot = N/A gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = 0.0006 gallons + (0.0006 gallons/foot X 18 feet) + 0.0006 gallons = N/A gallons				

PUMP OR TUBING DEPTH IN WELL (feet): 40'		WELL SCREEN INTERVAL DEPTH: 40' feet to feet		PURGING INITIATED AT: 1000		PURGING ENDED AT: 1045		TOTAL VOLUME PURGED (gallons): 1.17			
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) $\mu\text{mhos/cm}$ or $\mu\text{S/cm}$	DISSOLVED OXYGEN (circle units) mg/L or % saturation	Redox (mV)	Turbidity (NTU)	COLOR / ODOR (describe)
1005	.13	.13	.0026	22.89	7.14	28.78	810	5.51	-12	8.6	
1010	.13	.26			7.18	27.82	822	5.83	-120	6.1	
1015	.13	.39			7.19	28.47	832	6.51	-129	8.4	
1020	.13	.52		24.78	7.23	30.22	834	7.10	-138	6.3	
1025	.13	.65			7.26	29.84	838	2.00	-142	5.3	
1030	.13	.78			7.18	28.30	821	5.94	-140	5.6	
1035	.13	.91		27.55	7.26	25.99	811	5.89	-140	5.2	
1040	.13	1.04			7.26	26.40	810	5.85	-139	5.7	
1045	.13	1.17		29.15	7.20	25.77	808	5.47	-137	5.2	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JLC/MSD			SAMPLER(S) SIGNATURE(S): MSD			SAMPLING INITIATED AT: 1045		SAMPLING ENDED AT: 1103	
PUMP OR TUBING DEPTH IN WELL (feet): 40'			TUBING MATERIAL CODE:		FIELD-FILTERED: Y (N)		FILTER SIZE: _____ μm		
FIELD DECONTAMINATION: PUMP (Y) N			TUBING Y (N) (replaced)		DUPLICATE: Y (N)				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	Final pH/Temp			
					SEE	FOC			

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** $\pm 3\%$ **Specific Conductance:** $\pm 3\%$ **Dissolved Oxygen:** (10% for values greater than 0.5 mg/L, if three dissolved oxygen values are less than 0.5 mg/L, consider the values as stabilized) **Turbidity:** (10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized) **Oxidation/Reduction Potential:** ± 10 millivolts

100mL/min

GROUNDWATER SAMPLING LOG

SITE NAME: White Bluff	SITE LOCATION: Redfield, Ar.
WELL NO: MW-108D	SAMPLE ID: MW-108D DATE: 4/23/25

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/8"	TOTAL WELL DEPTH (feet): 80.02	STATIC DEPTH TO WATER (feet): 44.79	PURGE PUMP TYPE OR BAILER: BP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (feet - feet) X gallons/foot = N/A gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = N/A gallons				

PUMP OR TUBING DEPTH IN WELL (feet): 65'		WELL SCREEN INTERVAL DEPTH: feet to feet		PURGING INITIATED AT: 1205		PURGING ENDED AT: 1240		TOTAL VOLUME PURGED (gallons): 91			
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. (circle units) μmhos/cm or (μS/cm)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	Redox (mV)	Turbidity (NTU)	COLOR / ODOR (describe)
1210	.13	.13	0.026	45.51	7.21	25.48	463	3.08	22	4.5	
1215	.13	.26			7.21	23.7	722	1.01	-58	3.3	
1220	.13	.39			7.22	23.31	727	0.86	-66	6.1	
1225	.13	.52		48.28	7.22	23.18	730	0.73	-71	1.0	
1230	.13	.65			7.23	23.21	730	0.63	-76	1.3	
1235	.13	.78		50.8	7.23	23.76	733	0.63	-80	2.1	
1240	.13	.91			7.2	23.85	742	0.6	-79	4.5	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal/Ft): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JLC/MSD	SAMPLER(S) SIGNATURE(S): MSD	SAMPLING INITIATED AT: 1240	SAMPLING ENDED AT: 1253
PUMP OR TUBING DEPTH IN WELL (feet): 65'	TUBING MATERIAL CODE:	FIELD-FILTERED: Y <input checked="" type="radio"/> N <input type="radio"/>	FILTER SIZE: _____ μm
FIELD DECONTAMINATION: PUMP <input checked="" type="radio"/> N <input type="radio"/>	TUBING Y <input checked="" type="radio"/> N (replaced) <input type="radio"/>	DUPLICATE: Y <input checked="" type="radio"/> N <input type="radio"/>	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	Final pH/Temp			
SEE COC									

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS
 pH: ± 0.1 units Temperature: ± 3% Specific Conductance: ± 3% Dissolved Oxygen: (10% for values greater than 0.5 mg/L, if three dissolved oxygen values are less than 0.5 mg/L, consider the values as stabilized) Turbidity: (10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized) Oxidation/Reduction Potential: ± 10 millivolts

100 ml/min

0.026 0.264 g/min x 5 = 1.32 gal

GROUNDWATER SAMPLING LOG

SITE NAME: White Bluff	SITE LOCATION: Redfield, AR
WELL NO: MW-110S	SAMPLE ID: MW-110S DATE: 4/22/25

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/8"	TOTAL WATER DEPTH (feet): 23.34	STATIC DEPTH TO WATER (feet): 9.87	PURGE PUMP TYPE OR BAILER: BP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				
= (feet - feet) X gallons/foot = N/A gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				
= gallons + (gallons/foot X feet) + gallons = N/A gallons				

PUMP OR TUBING DEPTH IN WELL (feet): 22'			WELL SCREEN INTERVAL DEPTH: feet to feet			PURGING INITIATED AT: 1255		PURGING ENDED AT: 1335		TOTAL VOLUME PURGED (gallons): 1.04	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) (mg/L or % saturation)	Redox (mV)	Turbidity (NTU)	COLOR / ODOR (describe)
1300	0.13	0.13	0.026	9.87	4.00	23.2	712	2.11	393	10.3	
1305	0.13	0.26			3.95	24.8	679	1.56	400	17.8	
1310	0.13	0.39			3.96	26.09	651	1.28	408	29.5	
1315	0.13	0.52			4.00	26.48	621	1.13	414	37.3	
1320	0.13	0.65		10.25	4.06	26.51	611	1.03	413	46.5	
1325	0.13	0.78			4.15	26.73	604	.95	410	51.7	
1330	0.13	0.91			4.21	26.99	609	.90	406	54.4	
1335	0.13	1.04	↓	10.33	4.17	27.20	622	.97	404	55	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JLC/msd		SAMPLER(S) SIGNATURE(S): <i>Maile Seaborn</i>		SAMPLING INITIATED AT: 1335	SAMPLING ENDED AT: 1350
PUMP OR TUBING DEPTH IN WELL (feet): 22'		TUBING MATERIAL CODE: N/A	FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	FILTER SIZE: _____ μm	
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N <input type="checkbox"/> TUBING Y <input checked="" type="checkbox"/> N (replaced) <input type="checkbox"/>		DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	Final pH/Temp			
				SEE	COC				

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units Temperature: ± 3% Specific Conductance: ± 3% Dissolved Oxygen: (10% for values greater than 0.5 mg/L, if three dissolved oxygen values are less than 0.5 mg/L, consider the values as stabilized) Turbidity: (10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized) Oxidation/Reduction Potential: ± 10 millivolts

GROUNDWATER SAMPLING LOG

100m4/min

SITE NAME: White Bluff	SITE LOCATION: Redfield, Ar.
WELL NO: MW-110D	SAMPLE ID: MW-110D DATE: 4/29/25

PURGING DATA

WELL DIAMETER (inches): 4"	TUBING DIAMETER (inches): 1/8"	TOTAL WATER DEPTH (feet): 84.38	STATIC DEPTH TO WATER (feet): 33.62	PURGE PUMP TYPE OR BAILER: BP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (feet - feet) X gallons/foot = N/A gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = N/A gallons				

PUMP OR TUBING DEPTH IN WELL (feet): 106'		WELL SCREEN INTERVAL DEPTH: feet to feet		PURGING INITIATED AT: 0955		PURGING ENDED AT: 1030		TOTAL VOLUME PURGED (gallons): .91			
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	Redox (mV)	Turbidity (NTU)	COLOR / ODOR (describe)
1000	.13	.13	.0026	33.05	8.70	23.25	441	4.70	87	38.0	
1005	.13	.26			7.21	23.32	505	1.62	-35	25.8	
1010	.13	.39			7.17	23.18	544	0.68	-75	24.9	
1015	.13	.52		34.13	7.17	23.09	550	0.58	-85	24.8	
1020	.13	.65			7.18	23.03	550	0.67	-91	21.0	
1025	.13	.78			7.19	22.98	551	0.72	-95	19.9	
1030	.13	.91		34.81	7.21	22.97	551	0.74	-98	21.1	Sulfur Smell

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JLC / MSD			SAMPLER(S) SIGNATURE(S): msd			SAMPLING INITIATED AT: 1030		SAMPLING ENDED AT: 1044		
PUMP OR TUBING DEPTH IN WELL (feet): 106'			TUBING MATERIAL CODE:			FIELD-FILTERED: Y <input checked="" type="radio"/> N <input checked="" type="radio"/>		FILTER SIZE: μm		
FIELD DECONTAMINATION: PUMP <input checked="" type="radio"/> N			TUBING Y <input checked="" type="radio"/> N (replaced)			DUPLICATE: Y <input checked="" type="radio"/> N <input checked="" type="radio"/>				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	Final pH/Temp				
				SEE	COG					

REMARKS: **Honiba calibrated prior to purging**

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS
pH: ± 0.1 units **Temperature:** ± 3% **Specific Conductance:** ± 3% **Dissolved Oxygen:** (10% for values greater than 0.5 mg/L, if three dissolved oxygen values are less than 0.5 mg/L, consider the values as stabilized) **Turbidity:** (10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized) **Oxidation/Reduction Potential:** ± 10 millivolts

100 mL/min

GROUNDWATER SAMPLING LOG

SITE NAME: White Bluff	SITE LOCATION: Redfield, AR
WELL NO: MW-1115	SAMPLE ID: MW-1115 DATE: 4/22/25

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/8"	TOTAL WATER DEPTH (feet): 23.32	STATIC DEPTH TO WATER (feet): 13.43	PURGE PUMP TYPE OR BAILER: BP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				
= (feet - feet) X gallons/foot = NA gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				
= gallons + (gallons/foot X feet) + gallons = NA gallons				

PUMP OR TUBING DEPTH IN WELL (feet): 22'	WELL SCREEN INTERVAL DEPTH: feet to feet	PURGING INITIATED AT: 1410	PURGING ENDED AT: 1500	TOTAL VOLUME PURGED (gallons): 1.30							
TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or (μS/cm)	DISSOLVED OXYGEN (circle units) (mg/L or % saturation)	Redox (mV)	Turbidity (NTU)	COLOR / ODOR (describe)
1415	0.13	0.13	0.024	13.43	3.88	30.03	1630	0.80	454	35.2	
1420	0.13	0.26			3.89	29.63	1630	1.04	452	31.7	
1425	0.13	0.39			3.92	28.85	1600	1.03	451	31.6	
1430	0.13	0.52		13.58	3.98	29.23	1570	1.08	451	21.6	
1435	0.13	0.65			4.01	29.35	1570	1.01	453	15.3	
1440	0.13	0.78			4.02	29.3	1560	1.03	454	11.9	
1445	0.13	0.91		13.62	4.0	27.24	1570	1.06	457	8.4	
1450	0.13	1.04			4.0	26.16	1570	1.01	461	6.3	
1455	0.13	1.17			4.01	26.91	1570	0.98	462	6.1	
1500	0.13	1.30		13.63	4.01	26.72	1580	0.97	464	5.9	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JLC/MSD				SAMPLER(S) SIGNATURE(S): MSD				SAMPLING INITIATED AT: 1500		SAMPLING ENDED AT: 1505		
PUMP OR TUBING DEPTH IN WELL (feet): 22'				TUBING MATERIAL CODE:				FIELD-FILTERED: Y <input checked="" type="radio"/> N <input type="radio"/>		FILTER SIZE: _____ μm		
FIELD DECONTAMINATION: PUMP <input checked="" type="radio"/> N <input type="radio"/>				TUBING <input checked="" type="radio"/> N (replaced) <input type="radio"/>				DUPLICATE: Y <input type="radio"/> N <input checked="" type="radio"/>				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLE PUMP FLOW RATE (mL per minute)		
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	Final pH/Temp						
				SEE	LOG							
REMARKS:												
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)												
SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)												

NOTES: 1. The above do not constitute all of the information required by
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS
pH: ± 0.1 units **Temperature:** ± 3% **Specific Conductance:** ± 3% **Dissolved Oxygen:** (10% for values greater than 0.5 mg/L, if three dissolved oxygen values are less than 0.5 mg/L, consider the values as stabilized) **Turbidity:** (10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized) **Oxidation/Reduction Potential:** ± 10 millivolts

GROUNDWATER SAMPLING LOG

75 mL/min

SITE NAME: White Bluff	SITE LOCATION: Redfield, Av
WELL NO: MW-113D	SAMPLE ID: MW-113D DATE: 4/30/25

PURGING DATA

WELL DIAMETER (inches): 4"	TUBING DIAMETER (inches): 1 1/8"	TOTAL WATER DEPTH (feet): 46.81'	STATIC DEPTH TO WATER (feet): 9.45	PURGE PUMP TYPE OR BAILER: BP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (feet - feet) X gallons/foot = N/A gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = N/A gallons				

PUMP OR TUBING DEPTH IN WELL (feet): 30'	WELL SCREEN INTERVAL DEPTH: 30' feet to feet	PURGING INITIATED AT: 0900	PURGING ENDED AT: 0925	TOTAL VOLUME PURGED (gallons): 0.495							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) (mg/L or % saturation)	Redox (mV)	Turbidity (NTU)	COLOR / ODOR (describe)
0905	.099	.099	.0198	9.61	6.28	26.62	1200	4.66	190	13.3	
0910	.099	.198			6.81	25.4	1490	3.04	174	1.1	
0915	.099	.297			6.83	24.79	1500	3.06	178	0.4	
0920	.099	.396		10.23	6.84	24.41	1500	3.02	181	1.8	
0925	.099	.495		10.41	6.85	24.51	1510	2.92	184	0.7	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0028; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JLC/MSD			SAMPLER(S) SIGNATURE(S): MSD			SAMPLING INITIATED AT: 0925		SAMPLING ENDED AT: 0939	
PUMP OR TUBING DEPTH IN WELL (feet): 30'			TUBING MATERIAL CODE:			FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		FILTER SIZE: _____ μm	
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N <input type="checkbox"/> TUBING Y <input checked="" type="checkbox"/> N <input type="checkbox"/> (replaced)			DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>						
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	Final pH/Temp			
				SFF	100				

REMARKS: **Hlonba calibrated prior to purging**

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

- NOTES:** 1. The above do not constitute all of the information required by
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS
 pH: ± 0.1 units Temperature: ± 3% Specific Conductance: ± 3% Dissolved Oxygen: (10% for values greater than 0.5 mg/L, if three dissolved oxygen values are less than 0.5 mg/L, consider the values as stabilized) Turbidity: (10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized) Oxidation/Reduction Potential: ± 10 millivolts

22x50

125 mL/min

GROUNDWATER SAMPLING LOG

SITE NAME: White Bluff	SITE LOCATION: Redfield, AR.
WELL NO: MW-114D	SAMPLE ID: MW-114D DATE: 4/23/25

PURGING DATA

WELL DIAMETER (inches): 4"	TUBING DIAMETER (inches): 1/8"	TOTAL WATER DEPTH (feet): 91.18	STATIC DEPTH TO WATER (feet): 60.25	PURGE PUMP TYPE OR BAILER: BP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (feet - feet) X gallons/foot = N/A gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = N/A gallons											
PUMP OR TUBING DEPTH IN WELL (feet): 84'	WELL SCREEN INTERVAL DEPTH: feet to feet		PURGING INITIATED AT: 1420	PURGING ENDED AT: 1450	TOTAL VOLUME PURGED (gallons):						
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or dS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	Redox (mV)	Turbidity (NTU)	COLOR / ODOR (describe)
1425	.165	.165	.0330	60.25	7.74	27.06	80	5.29	28	2.9	
1430	.165	.33			7.30	26.77	417	2.60	-35	0.6	
1435	.165	.495			7.32	25.59	489	2.52	-82	0.0	
1440	.165	.66		60.80	7.34	24.64	500	2.90	-93	0.0	
1445	.165	.825			7.35	24.22	509	2.92	-96	0.0	
1450	.165	.99		61.18	7.34	23.91	510	2.82	-95	0.0	
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016 PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JLC/MSD				SAMPLER(S) SIGNATURE(S): MSD				SAMPLING INITIATED AT: 1450		SAMPLING ENDED AT: 1510	
PUMP OR TUBING DEPTH IN WELL (feet): 84'				TUBING MATERIAL CODE:				FIELD-FILTERED: Y <input checked="" type="radio"/> N <input type="radio"/>		FILTER SIZE: _____ μm	
FIELD DECONTAMINATION: PUMP <input checked="" type="radio"/> N <input type="radio"/>				TUBING Y <input checked="" type="radio"/> (replaced) N <input type="radio"/>				DUPLICATE: Y <input checked="" type="radio"/> N <input type="radio"/>			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	Final pH/Temp					
SEE LOG											
REMARKS:											
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)											
SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)											

NOTES: 1. The above do not constitute all of the information required by
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS
pH: ± 0.1 units **Temperature:** ± 3% **Specific Conductance:** ± 3% **Dissolved Oxygen:** (10% for values greater than 0.5 mg/L, if three dissolved oxygen values are less than 0.5 mg/L, consider the values as stabilized) **Turbidity:** (10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized) **Oxidation/Reduction Potential:** ± 10 millivolts

100 mL/min

GROUNDWATER SAMPLING LOG

SITE NAME: White Bluff	SITE LOCATION: Redfield, Ar
WELL NO: MW-118D	SAMPLE ID: MW-118D DATE: 4/23/25

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1.75"	TOTAL WATER DEPTH (feet): 72.81	STATIC DEPTH TO WATER (feet): 40.8	PURGE PUMP TYPE OR BAILER: BP
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WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
 (only fill out if applicable) = (feet - feet) X gallons/foot = **N/A** gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
 (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = **N/A** gallons

PUMP OR TUBING DEPTH IN WELL (feet): 61'	WELL SCREEN INTERVAL DEPTH: <u> </u> feet to <u> </u> feet	PURGING INITIATED AT: 1530	PURGING ENDED AT: 1605	TOTAL VOLUME PURGED (gallons):
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TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	Redox (mV)	Turbidity (NTU)	COLOR / ODOR (describe)
1535	.13	.13	.0026	40.8	7.45	24.32	258	3.59	-61	4.4	
1540	.13	.26			7.18	25.62	563	2.52	4	2.1	
1545	.13	.39			7.03	24.11	719	0.81	15	1.2	
1550	.13	.52		41.15	7.06	23.74	729	0.68	-5	0.0	
1555	.13	.65			7.07	23.60	735	0.91	-14	0.0	
1600	.13	.78			7.07	23.73	739	0.98	-17	0.0	
1605	.13	.91		41.25	7.08	24.08	740	0.96	-19	0.0	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JLC/MSD	SAMPLER(S) SIGNATURE(S): MSD	SAMPLING INITIATED AT: 1605	SAMPLING ENDED AT: 1621
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PUMP OR TUBING DEPTH IN WELL (feet): 61'	TUBING MATERIAL CODE:	FIELD-FILTERED: Y <input checked="" type="radio"/> N <input type="radio"/>	FILTER SIZE: _____ μm
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FIELD DECONTAMINATION: PUMP <input checked="" type="radio"/> N <input type="radio"/> TUBING Y <input checked="" type="radio"/> N (replaced) <input type="radio"/>	DUPLICATE: Y <input checked="" type="radio"/> N <input type="radio"/>
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SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	Final pH/Temp			
SEE COC									

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units Temperature: ± 3% Specific Conductance: ± 3% Dissolved Oxygen: (10% for values greater than 0.5 mg/L, if three dissolved oxygen values are less than 0.5 mg/L, consider the values as stabilized) Turbidity: (10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized) Oxidation/Reduction Potential: ± 10 millivolts

APPENDIX E-3
SECOND HALF 2025
ALTERNATE SOURCE DEMONSTRATION



Alternate Source Demonstration

2nd Half 2025 Sampling Event

**Entergy White Bluff Plant
Coal Ash Disposal Landfill
Redfield, Jefferson County, Arkansas**

December 2025

*Prepared For
Entergy Arkansas, LLC
White Bluff Plant
1100 White Bluff Road
Redfield, Arkansas 72132*

Wenbo Xie

Wenbo Xie, P.E.
Senior Project Engineer

Emma Gaines

Emma Gaines, P.G.
Project Manager

Executive Summary

Entergy Arkansas, LLC (EAL) performed the most recent semiannual detection monitoring sampling (2nd Half 2025) in September 2025 for Cells 1 through 4 of the coal ash disposal landfill (CADL) pursuant to the *Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule*, 40 CFR Part 257 (CCR Rule). Cells 1 through 4 of the CADL constitute the coal combustion residuals (CCR) Unit per the CCR Rule. Per 40 CFR 257.94, the samples were analyzed for the Appendix III detection monitoring parameters. Upon receipt of the laboratory analytical results, statistical analysis was performed.

In accordance with the statistical analyses, the following 11 statistically significant increases (SSI) above background concentrations were identified in three monitoring wells in Stratum I and one monitoring wells in Stratum III, based on either increasing trends at 98% confidence levels using Sen's Slope test and/or intrawell prediction limits statistical analyses:

- Calcium, sulfate and TDS (MW-106S);
- Boron (MW-110S);
- Boron, calcium, sulfate, and TDS (MW-111S);
- Boron, calcium, and TDS (MW-112D).

The information provided in this report serves as EAL's alternate source demonstration (ASD) prepared in accordance with 40 CFR 257.94(e)(2) and successfully demonstrates that the SSIs are not due to a release from the CCR Unit to groundwater, but are due to the following:

- Natural groundwater geochemistry conditions such as pH, electrical conductivity (EC), oxidation-reduction potential (ORP) and the naturally occurrence of sulfide minerals;
- Natural variation in groundwater quality;
- Releases from historic fill or portions of the CADL closed before the effective date of the CCR Rule (October 19, 2015); and/or
- Surface water that has come into contact with on-site CCR and has migrated into the subsurface.

Therefore, based on the information provided in this ASD report, EAL will continue to conduct semiannual detection monitoring for Appendix III constituents in accordance with 40 CFR 257.94 at the certified groundwater monitoring well system (Certified Monitoring Well Network) for the CCR Unit and will continue to implement improvements to stormwater management practices at the CADL.

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Section 1

Introduction

1.1 Background

Entergy Arkansas, LLC (EAL) operates the Entergy White Bluff Plant (Plant), a coal-fired power plant, to generate electricity. The Plant is located at 1100 White Bluff Road in Redfield, Jefferson County, Arkansas as shown on Figure 1. Coal combustion residuals (CCR) are produced as part of the electrical generation operations. The Plant has been generating and disposing of CCR in a portion of the on-site coal ash disposal landfill (CADL) since it began operations in 1981. The CADL is a Class 3N non-commercial industrial landfill and operates under Arkansas Division of Environmental Quality (ADEQ) Solid Waste Permit No. 0199-S3N-R3.

The ADEQ-permitted CADL consists of approximately 153-acres at the Plant and encompasses the following three areas:

- Approximately 50-acre portion of the CADL historically used for CCR disposal from 1981 until prior to the effective date of the CCR Rule (October 19, 2015). CCR was placed into ravines. This historic fill area was covered with soil and vegetated.
- Cells 1 through 4, which are the current cells used for CCR disposal and were constructed on top of, and adjacent to, the above-noted closed CCR disposal areas prior to the effective date of the CCR Rule. Cells 1 through 4 encompass approximately 30 acres and were constructed as follows:
 - Cells 1, 2, and 3 were constructed with an 18-inch thick compacted clay bottom liner;
 - Cell 4 was constructed with a two-foot thick compacted clay bottom liner and a leachate collection system; and
- Approximately 100-acre portion of the CADL that is currently undeveloped and may be used for CCR and/or non-CCR disposal.

In addition to the current 153-acre permitted landfill, there is an approximately 25-acre area to the immediate west of Cells 1 through 4 where during the initial period of operation of the Plant, ash was placed pursuant to the permits issued at that time. This historic fill area is covered with soil and vegetated.

Cells 1 through 4 accept CCR for disposal in accordance with the federal *Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule* (CCR Rule), effective October 19, 2015, and subsequent Final Rules promulgated by the United States Environmental Protection Agency (USEPA). Cells 1 through 4 comprise the CCR management

unit (CCR Unit) per the CCR Rule and are the focus of this ASD. The approximate limits of Cells 1 through 4, the former disposal areas, and the undeveloped, future disposal areas within the ADEQ-permitted footprint of the CADL are shown in Figure 2.

Historical CCR management by EAL has consisted of the following activities:

- Beneficial use in local construction projects;
- Beneficial use as roadbed material at the CADL; and
- Placement into the CADL.

1.1.1 Groundwater Monitoring and Statistical Analysis

In accordance with 40 CFR 257.90 through 257.94, EAL installed a groundwater monitoring system for Cells 1 through 4 and has collected samples from the Certified Monitoring Well Network for laboratory analysis for CCR constituents and performed statistical analysis of the collected samples. EAL installed a Certified Monitoring Well Network for the CCR Unit in accordance with 40 CFR 257.90 and 257.91. The Certified Monitoring Well Network consists of 23 wells installed into two stratigraphic units as follows:

- Eight wells are installed into an upper silty and clayey sand unit (Stratum I), which are designated as “S” monitoring wells; and
- Fifteen wells are installed into a lower silty and clayey sand and clay unit (Stratum III), which are designated as “D” monitoring wells.

Pursuant to 40 CFR 257.91(f), EAL obtained certification by a qualified Arkansas-registered professional engineer (P.E.) stating that the Certified Monitoring Well Network has been designed and constructed to meet the requirements of 40 CFR 257.91 (see Groundwater Monitoring System Certification, TRC, February 26, 2018) of the CCR Rule (TRC 2018b).

As discussed above, Stratum I and Stratum III are currently being monitored pursuant to the CCR Rule. A groundwater sampling and analysis program including selection of statistical procedures to evaluate groundwater data was prepared per the CCR Rule (see Groundwater Sampling and Analysis Plan (FTN, 2017b)). Eight quarterly background CCR detection monitoring events were performed from October 2015 through June 2017 in accordance with 40 CFR 257.93(d) and 257.94(b). The eight quarterly detection monitoring background samples were analyzed for Appendix III to Part 257 – Constituents for Detection Monitoring and for Appendix IV to Part 257 – Constituents for Assessment Monitoring.

Following completion of quarterly background detection monitoring in June 2017, EAL implemented semiannual detection monitoring per 40 CFR 257.94(b) for the CCR Unit. The first semiannual detection monitoring event was performed in August 2017 (2nd Half 2017). Subsequent detection monitoring events, with associated verification sampling when appropriate, have been performed on a semiannual basis since August 2017. EAL performed the most recent semiannual detection monitoring event (2nd Half 2025) in September 2025. Per the CCR Rule, the semiannual detection monitoring event samples were analyzed for Appendix III constituents.

After completion of each semiannual detection monitoring event, the Appendix III laboratory analytical data were statistically evaluated to identify potential SSIs for Appendix III constituents above background levels. In accordance with 40 CFR 257.93(f)(6), EAL obtained certification by a qualified Arkansas-registered P.E. stating that the selected statistical method is appropriate for evaluating the groundwater monitoring data for the CCR Unit (see Statistical Methods Certification, TRC, October 16, 2017).

Pursuant to 40 CFR 257.93(h), statistical analysis of the laboratory analytical data was performed to identify potential SSIs for the 2nd Half 2025 semiannual detection monitoring event. A total of 11 SSIs were identified for four Appendix III constituents: boron, calcium, sulfate, and TDS. SSIs were identified in three Stratum I and one Stratum III monitoring wells.

1.2 Purpose

Pursuant to 40 CFR 257.94(e)(2), EAL may demonstrate that a source other than the CCR Unit caused the SSIs identified or that the SSIs resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. The purpose of this report is to provide written documentation of the successful ASD for the SSIs identified for the 2nd Half 2025 semiannual detection monitoring event, pursuant to 40 CFR 257.94(e)(2) of the CCR Rule.

Section 2

Hydrogeology and Geochemistry

2.1 Site Hydrogeology

Historical subsurface investigations have identified the following three stratigraphic horizons of the Jackson Group (Kresse, et. al., 2014) and their associated hydrogeology for the CCR Unit and the CADL:

- **Stratum 1. Interbedded Clay, Silt, and Sand.**
Stratum 1 ranges from approximately 10 to 55-feet thick and consists of interbedded silty sand (SM), clayey sand (SC), silts (ML and MH), and clay (CL and CH). Occasional deposits of carbonaceous material are present throughout Stratum 1. Based on the results of in-situ slug tests, hydraulic conductivity values range from 1.3×10^{-3} to 9.15×10^{-8} cm/sec;
- **Stratum 2. Clay.**
Stratum 2 ranges from approximately 10 to 55-feet thick and consists of a very stiff clay (CH) with occasional silt and/or very fine-grained sand laminations. Occasional deposits of carbonaceous mater are present throughout Stratum 2. Based on the results of in-situ slug tests, hydraulic conductivity values range from 7.10×10^{-8} ;
- **Stratum 3. Clayey and Silty Sand.**
Stratum 3 ranges from approximately 5 to 20-feet thick and consists primarily of clayey sand (SC) and/or silty sand (SM). A poorly graded, fine-grained sand (SM) was identified in one piezometer. The upper limits of Stratum 3 were encountered at elevations of 263 to 289-feet NGVD (depths ranging from 19 to 97-feet bgs). Based on results of in-situ slug tests, hydraulic conductivity was determined to be spatially variable and ranged from 2.80×10^{-7} to 9.80×10^{-11} cm/sec; and
- **Underlying Clay.**
A clay unit underlies Stratum 3 and is described as a very dark grey clay that is highly laminated with light grey silt and very fined-grained sand. Based on results of an in-situ slug test, the vertical hydraulic conductivity was 3.7×10^{-8} cm/sec.

It was concluded that Stratum 1 was not laterally continuous across the approximately 153-acre landfill. The estimated calculated seepage velocities in Stratums 1 and 3 were as follows:

- Stratum 1: 1-1.59 feet/year; and
- Stratum 3: 0.0067 to 41.37 feet/year.

While Stratum I and Stratum III have been monitored per the CCR Rule since October 2015, it is unclear whether Stratum I and Stratum III are aquifers that are capable of providing sustainable well yields consistent with USEPA aquifer use criteria (e.g., 0.1 gallons per minute). This uncertainty is based on the following evidence:

- Stratum I is present to the west of the CADL and only present within the western portion of the ADEQ-permitted boundaries of the CADL, approximately corresponding to the boundaries of the closed portions of the CADL. The CCR Unit and Stratum I are not continuous to the east across the entire footprint of the CADL;
- In-situ hydraulic conductivities are low to very low for both Stratum I and Stratum III, indicating that sustainable well yields may not be obtainable from Stratum I and Stratum III at volumes that meet the minimum USEPA well use criteria (e.g., 0.1 gallons per minute); and
- During the quarterly and semiannual detection monitoring events performed from October 2015 through September 2025, which have been performed using the low-flow purge and sample methodology, the sampling teams have consistently documented that turbidity values are often greater than 10 Nephelometric Turbidity Units (NTU). Furthermore, wells have been pumped dry during sampling for both Stratum I and Stratum III, indicating that neither sustainable well yields nor useable drinking water are associated with Stratum I and Stratum III.

To evaluate this uncertainty, EAL began performing hydrogeologic investigations during 2019 and 2020, continuing through 2021 to evaluate both the stratigraphy and hydrogeology beneath the CCR Unit and to identify the aquifer(s) making up the uppermost aquifer system at the CCR Unit and CADL and the appropriateness of the current Certified Monitoring Well Network.

2.2 General Groundwater Quality

Regionally, groundwater quality in the Jackson Group consists of a sodium- and calcium-sulfate water type, with generally poor water quality (FTN 2014, Kresse et. al 2014). Reported water quality concentrations for select secondary drinking water contaminants compared to USEPA secondary maximum contaminant levels (MCLs) are provided in the table below.

Jackson Group Groundwater Water Quality

Constituent	Concentration Range		USEPA Secondary MCL
	Low	High	
Iron (mg/L)	0.05	19	0.3
pH (s.u.)	2.9	8.0	6.5 - 8.5
Sulfate (mg/L)	0.6	3,080	250
TDS (mg/L)	11	5,330	500

As noted in the table above, the natural range of groundwater quality within the Jackson Group, which includes both Stratum I and Stratum III, exceeds the secondary drinking water MCLs established by the USEPA for drinking water or, in the case of pH, is less than its secondary MCL. Finally, the results of historical groundwater monitoring at the Plant conducted from 1991 through 1996 showed that normal indicator parameters were masked by naturally elevated concentrations of the monitored constituents (FTN 2014, TRC 2018a).

2.3 Groundwater Geochemistry

Understanding the geochemistry of groundwater is essential to examining the groundwater monitoring data, explaining the relationships between the characteristics, and analyzing natural as well as anthropogenic impacts on groundwater systems. Source apart, geochemical processes play an important role in controlling the chemical composition of groundwater, including carbonate equilibrium, oxidation-reduction reactions and adsorption-desorption processes. Based on the site geological conditions, several groundwater parameters are discussed as follows, including boron, fluoride, sulfate, calcium, TDS and pH.

2.3.1 Boron in Groundwater

Boron is normally considered as a minor constituent in groundwater as it is generally present in low concentrations (Palmucci & Rusi, 2014). Source apart, the primary origin of boron in groundwater is the process of sorption and desorption to the mineral surfaces including rocks and soils (Ravenscroft & McArthur, 2004). The regulatory guideline values of boron in drinking water are given at 0.5 mg/L by WHO and 0.9 mg/L by USEPA in human consumption for long-term exposure (WHO, 2008; USEPA, 2008). Boron is often cited as a contamination tracer and usually occurs as a non-ionized form as H_3BO_3 in soils at $pH < 8.5$, but above this pH, it exists as an anion, $B(OH)_4^-$ (Upadhyaya et al., 2014).

The factors that may influence the boron concentration in groundwater include weathering, human activity, evaporative concentration, ion-exchange, electrical conductivity (EC), and pH. Ravenscroft & McArthur (2004) studied the mechanism of regional boron enrichment in groundwater and the results indicated that the main process that caused high boron enrichment in groundwater was the flushing by fresh groundwater other than geological setting, climate or age. The desorption of Boron from mineral surfaces could be affected by pH, ionic strength, salinity and HCO_3^-/CO_3^{2-} . Decreasing of pH will increase the dissolution of boron from the mineral surfaces. Boron adsorption favors high pH and boron desorption favors low pH on rocks, soils and organic matters (Hollis et al., 1988; Keren & Communar, 2009; Tabelin et al., 2014).

A few more research studies confirmed that the presence of boron in groundwater depends on the EC (salinity), such that it increases with increasing EC. Halim et al. (2010) reported that the

increasing of Cl⁻ concentration contributes to increase in EC value since a strong linear correlation (R² = 0.88) between EC and Cl⁻ was observed. Palmucci & Rusi (2014) observed a clear correlation between the high concentrations of boron and the chloride-sodium facies, which are characterized by high saline content, negative redox potential, and low value of the SO₄²⁻/Cl⁻ ratio. Rodriguez-Espinosa et al. (2020) found that the Boron concentration in groundwater was related to the SO₄²⁻ and age affect.

Regarding to the Boron concentration level on the sites, the main source of Boron is more natural than anthropogenic. Therefore, the detected increasing of Boron concentration is likely due to the geochemistry condition changes, such as pH, ion exchanges, EC and salinity.

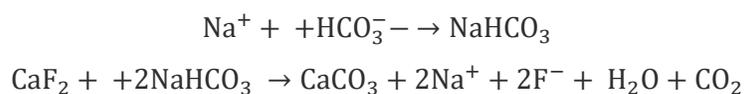
2.3.2 Fluoride in Groundwater

The common natural source of fluoride in groundwater is the dissolution of natural fluoride-bearing mineral, such as fluorspar, fluorapatite, amphiboles, hornblende, tremolite and biotite (Luo et al., 2018). The natural concentration of fluoride in groundwater depends on the geological, chemical and physical characteristics of the aquifer, the porosity and acidity of the soil and rocks, the surrounding temperature, the action of other chemical elements, depth of the aquifer and intensity of weathering (Brindha & Elango, 2011). Due to the concentration range of this site, geochemical process is the main factor controlling fluoride in groundwater.

Ion exchange, evaporation, adsorption-desorption, ion competition, mixing, salinization and anthropogenic pollution are geochemical processes that can take place and cause the occurrence of fluoride in groundwater (Luo et al., 2018). Main factors that might cause the increase of fluoride concentration in groundwater include alkaline pH, high concentration of sodium and bicarbonate, and low concentration of calcium.

Alkaline pH can increase the fluoride dissolution from mineral surfaces into groundwater. Saxena & Ahmed (2001) observed that alkaline conditions with pH ranging between 7.6 and 8.6 are favorable for dissolution of fluorite mineral from the host rocks.

Sodium bicarbonate type waters are typical of high fluoride waters. Many research studies have demonstrated positive correlations between fluoride and both bicarbonate and sodium as well as an inverse relation between fluoride and calcium. (Mondal et al., 2014; Guo et al., 2012; Chen et al., 2020). The chemical reactions for the dissolution of fluoride in the presence of high bicarbonate and sodium, and low calcium content is described as follows (Kimambo et al., 2019):



Luo et al. (2018) reported that cation exchange can increase the fluoride concentration when increasing the Na/Ca molar ratio via ion complexation, and salt effect can further increase the fluoride dissolution from mineral surfaces.

In addition, evaporation is another potential reason to increase the fluoride concentration in shallow groundwater. Evaporation could directly remove water from shallow aquifers and elevate the fluoride concentration. Evaporation could increase ion concentrations, leading to the precipitation of some major minerals, reducing the calcium concentration, and favoring the dissolution of fluoride. Anthropogenic sources may also increase the fluoride in groundwater, such as pesticide and fertilizer use, and industrial waste discharge.

2.3.3 Sulfate in Groundwater

Sulfate is ubiquitous in groundwater, with both natural and anthropogenic sources. There are many potential sources of sulfate including mineral dissolution, atmospheric deposition, and other anthropogenic sources (mining, fertilizer, synthetic detergents, industrial wastewater etc.) (Miao et al., 2012). As water moves through soil and rock formations that contain sulfate minerals, some of the sulfate dissolves into the groundwater. Minerals that contain sulfate include magnesium sulfate (Epsom salt), sodium sulfate (Glauber's salt), and calcium sulfate (gypsum). Gypsum is an important contributor to the high levels of sulphate in many aquifers of the world. Higher levels of sulfate in groundwater are common in the western part of the United States (MDH, 2008).

Sulfate is mobile in soil and inputs to soil will impact groundwater eventually. Many research studies indicated that atmospheric deposition, dissolution of gypsum, oxidation of sulfide mineral and anthropogenic inputs will contribute to sulfate. Based on the geological condition of the site, atmospheric deposition and anthropogenic activities could be the main factors (Einsiedl & Mayer, 2005; Pu et al., 2012).

2.3.4 Calcium in Groundwater

Calcium is one of the most important ionic constituents in groundwater (Razowska-jaworek, 2014). Water-rock interaction occurs when water meets rocks or minerals, limestone, marble, calcite, dolomite, gypsum, fluorite and apatite. Natural dissolution of carbonate rocks and minerals is the primary source of calcium in groundwater (Jiang et al., 2009). Calcium is an important determinant of water hardness (Ca^{2+}), while magnesium is the other hardness determinant. The most common shallow groundwater type is Ca-HCO_3 dominated and Ca(Mg)-HCO_3 dominated.

A literature review indicates the major factors that may influence the calcium concentration in groundwater include rock weathering, pH, electrical conductivity and anthropogenic activities (mining, concrete material dissolution, fertilizer etc.) (Hájek et al., 2021; Schot & Wassen, 1993; Shi et al., 2018). Based on the geological condition of the site, pH, electrical conductivity and anthropogenic activities could be the potential reasons for the calcium SSI.

2.3.5 TDS in Groundwater

Total dissolved solids represent the combined total of inorganic and organic substances contained in the groundwater, and it can be a general indicator of water quality. These solids are primarily minerals, salts, and organic matters, which may originate from sources such as weathering of minerals, urban runoff, sewage, effluent discharges, agricultural, decaying organisms, and other human activities (de-icing roads, water softer use). Common salts that contribute to TDS are sodium, chloride, calcium, magnesium, potassium, sulfates, and bicarbonates (Olumuyiwa I. Ojo, 2012).

TDS levels in groundwater is usually higher than surface water due to the longer contact time with the underlying rocks and sediments. Since many minerals are water soluble, high concentrations can accumulate over time through the constantly reoccurring process of precipitation and evaporation.

TDS is related to other water quality parameters like hardness, which may occur if the high TDS content is due to the presence of carbonates. A few research studies simulated the relationship between TDS and other groundwater parameters such as EC and salinity, using different models. Due to the complicated geological conditions, the observation was not consistent at different study sites (Atekwana et al., 2004; Banadkooki et al., 2020; Poursaeid et al., 2020).

2.3.6 pH in Groundwater

Groundwater pH is an important aspect to consider in the monitoring and management of CCR landfill sites, as changes in pH can affect the quality of groundwater and the potential for release of contaminants. The potential reasons for pH changes in groundwater are as following:

- Changes in water flow patterns. Changes in the flow patterns of groundwater can cause the mixing of different water sources with varying pH levels, resulting in an overall increase in the pH of the groundwater at the site.
- Drainage from adjacent areas. Groundwater from adjacent areas with higher pH levels may be flowing into the landfill site and raising the overall pH of the groundwater at the site.
- Changes in geochemistry condition. Geochemistry can play a role in affecting the pH of groundwater at a landfill site, such as mineral dissolution, pH buffering capacity, redox

reactions, and groundwater-rock interactions (Edmunds & Smedley, 1996; Wilkin & DiGiulio, 2010).

- 1) Mineral dissolution. Minerals present in the surrounding soil can dissolve and release basic or acidic compounds into the groundwater, affecting the pH, e.g., the dissolution of calcium carbonate can increase the pH of the groundwater by releasing carbonate ions, the dissolution and oxidation of pyrite can decrease the pH of groundwater by releasing hydrogen ions.
- 2) pH buffering capacity. The presence of minerals with a high buffering capacity in the surrounding soil can help to regulate the pH of the groundwater, preventing drastic changes in response to other factors. For example, the presence of minerals like calcite and dolomite can buffer the groundwater pH, helping to maintain a relatively stable pH even in the presence of acidic compounds.
- 3) Redox reactions. The oxidation-reduction reactions that occur in the surrounding soil can impact the pH of the groundwater. The oxidation of iron-sulfide minerals can result in the release of sulfuric acid, which can lower the pH of groundwater. The oxidation of reduced sulfur species to sulfate, which can increase the pH of groundwater (Jacks, 2017).
- 4) Groundwater-rock interactions. The interaction between groundwater and the rocks and minerals in the surrounding soil can affect the pH of the groundwater. For example, groundwater can dissolve or release basic or acidic compounds from the minerals in the rock, affecting the pH.

Section 3

Alternate Source Demonstration

Pursuant to 40 CFR 257.94(e)(2), EAL may demonstrate that a source other than the CCR Unit caused the SSI or that the SSI resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. As discussed previously, the 2nd Half 2025 semiannual detection monitoring event was performed in September 2025. Statistical analysis of the 2nd Half 2025 semiannual detection monitoring data was performed pursuant to 40 CFR 257.93(f) and (g) and in accordance with the Statistical Methods Certification (TRC 2017b) and the Statistical Analysis Plan (FTN 2017a). Based on either increasing trends at 98% confidence levels using Sen's Slope test and/or intrawell prediction limits statistical analyses, the following 11 SSIs were identified and summarized in Table 1:

- Calcium, sulfate and TDS (MW-106S);
- Boron (MW-110S);
- Boron, calcium, sulfate, and TDS (MW-111S);
- Boron, calcium, and TDS (MW-112D).

Other Appendix III constituent concentrations were within their trends at 98% confidence levels using Sen's slope test and/or intrawell prediction limits in the CCR Rule groundwater monitoring system wells.

A discussion for each of the individual SSIs identified for the Stratum I and III wells and associated evidence demonstrating that the 11 SSIs were not caused by a release from the CCR Unit is provided in the subsections below.

Table 1 SSIs – September 2025 Semiannual Detection Monitoring Event

Stratum	Well	Analyte	Value (mg/L)	Intrawell Prediction Limit (mg/L)	SI by Sen's Slope test
I	106S	Calcium	34.3	23.81	Y
	106S	Sulfate	807	603.5	Y
	106S	TDS	1,230	827.1	Y
	110S	Boron	2.15	1.586	Y
	111S	Boron	6.5	4.495	Y
	111S	Calcium	80.3	36.76	Y
	111S	Sulfate	721	397.5	Y
	111S	TDS	1,150	541	Y
III	112D	Boron	0.277	0.2521	Y
	112D	Calcium	42.8	22.46	Y
	112D	TDS	331	204.9	Y

3.1 Calcium at MW-106S

The calcium SSI identified at MW-106S is a result of the acidic geochemistry condition in groundwater, potential impact of CCR disposed at the CADL prior to October 19, 2015, and potential infiltration of surface water impacted by on-site CCR into the subsurface in the area of MW-106S. The following evidence supports this determination:

- Calcium was detected in MW-106S at a concentration of 34.3 mg/L in the September 2025 sample, which exceeded the intrawell prediction limit of 23.8 mg/L. Compared to the value of 38.7 mg/L in the April 2025 sample, the calcium concentration decreased approximately 11%. The Mann-Kendal statistic of 233 exceeded the critical value of 101 indicating a significant increasing trend at the 98% confidence level. As discussed in Section 2.3, pH and EC could affect calcium concentrations in groundwater. Low pH values of 3.8-4.0 were detected in the past few years, which indicates the groundwater in this area is acidic and it was related to pre-CCR Rule disposal source or natural geochemistry conditions. The acidic groundwater condition favors the dissolution of calcium from soil and mineral surfaces to water phase. The significant increasing trend of calcium from 16 mg/L in 2015 to 34.3 mg/L in 2025 could be a result of the acidic geochemistry condition. The increasing cation and anion concentrations will also lead to the increasing EC, which will affect other metals dissolution.
- Calcium concentrations in Stratum I of this site have varied from 0.755 to 118 mg/L among all monitoring wells during CCR detection monitoring. The calcium concentration of 34.3 mg/L measured at MW-106S during the 2nd Half 2025 semiannual detection monitoring event stayed in the low-middle concentration range. Therefore, the calcium concentration measured at MW-106S is within the range of natural variation in groundwater quality.
- Based on review of potentiometric surface mapping, locations of closed portions of the CADL underlying the CCR Unit, and the CCR Unit relative to MW-106S, it appears that MW-106S may monitor groundwater associated with the underlying pre-CCR Rule closed portions of the CADL rather than the CCR Unit; therefore, concentrations measured in MW-106S are likely more reflective of pre-CCR Rule disposal rather than of the CCR Unit.
- Surface water that has come into contact with on-site CCR at the CCR Unit has migrated from the perimeter drainage swale for the CCR Unit due to periodic build-up of sediment within the perimeter surface water swale. When this build-up occurs, surface water flows out of the swale and over the adjoining access road and then to the area of MW-106S. This drainage swale carries surface water runoff from closed portions of the CADL as well as from the CCR Unit. This surface water ultimately migrates from the MW-106S area via surface water swales within the ADEQ-permitted CADL footprint, with ultimate discharge into the site surge pond as per EAL's NPDES permit. Based on the close proximity of this surface water to MW-106S, it appears likely that surface water infiltration may have impacted the MW-106S monitoring results.

3.2 Sulfate at MW-106S

The sulfate SSI identified at MW-106S is a result of natural geochemistry condition in soil and groundwater, potential impact of CCR disposed at the CADL prior to October 19, 2015, and potential infiltration of surface water impacted by on-site CCR into the subsurface in the area of MW-106S. The following evidence supports this determination:

- Sulfate was detected in MW-106S at a concentration of 807 mg/L in the September 2025 sample, which exceeded the intrawell prediction limit of 604 mg/L. Compared to the value of 813 mg/L in the April 2025 sample, the sulfate concentrations are consistent. The Mann-Kendal statistic of 240 exceeded the critical value of 101 indicating a significant increasing trend at the 98% confidence level. The increasing trend of sulfate was consistent with TDS. The elevated sulfate concentration in the past four years could be caused by the acidic geochemistry condition discussed above or an anthropogenic source since sulfate is mobile in soils and can get into groundwater via surface water infiltration. Another potential reason is the natural occurrence of sulfide minerals in the soil, such as pyrite. The oxidation of sulfide minerals will slowly release sulfate and hydrogen ion into groundwater, which will lead to the increasing of sulfate and decreasing of pH.
- Surface water that has come into contact with on-site CCR at the CCR Unit has migrated from the perimeter drainage swale for the CCR Unit due to periodic build-up of sediment within the perimeter surface water swale. When this build-up occurs, surface water flows out of the swale and over the adjoining access road and then to the area of MW-106S. This drainage swale carries surface water runoff from closed portions of the CADL as well as from the CCR Unit. This surface water ultimately migrates from the MW-106S area via surface water swales within the ADEQ-permitted CADL footprint, with ultimate discharge into the site surge pond as per EAL's NPDES permit. Based on the close proximity of this surface water to MW-106S, it appears likely that surface water infiltration may have impacted the MW-106S monitoring results.
- Based on review of potentiometric surface mapping and locations of closed portions of the CADL, and the CCR Unit relative to MW-106S, MW-106S may monitor groundwater associated with the pre-CCR Rule closed portions of the CADL rather than the CCR unit; therefore, concentrations measured in MW-106S may be more reflective of pre-CCR Rule disposal rather than of the CCR Unit.

3.3 TDS at MW-106S

The TDS SSI identified at MW-106S is a result of the acidic groundwater geochemistry condition, sodium sulfate source, potential impact of CCR disposed at the CADL prior to October 19, 2015, and potential infiltration of surface water impacted by on-site CCR into the subsurface in the area of MW-106S. The following evidence supports this determination:

- TDS was detected in MW-106S at a concentration of 1,230 mg/L in the September 2025 sample, which exceeded the intrawell prediction limit of 827 mg/L. The Mann-Kendal statistic of 237 exceeded the critical value of 101 indicating a significant increasing trend at the 98% confidence level. Compared to the TDS value of 1,260 mg/L in the April 2025 sample, 1,200 mg/L in the November 2024 sample, and 1,120 mg/L in the May 2024 sample, the TDS concentrations are stable. As discussed in Section 2.2, the Jackson Group groundwater is sodium- and calcium-sulfate water type. Sodium could be another main contribution to the TDS exceedance with calcium and sulfate. High sodium concentration can also cause the fluoride exceedance. The acidic groundwater could be one of the potential reasons. An alternate source containing sodium sulfate should also be considered, which can be mineral dissolution, surface water flux or atmospheric deposition.
- Based on review of potentiometric surface mapping, locations of closed portions of the CADL, and the CCR Unit relative to MW-106S, MW-106S may monitor groundwater associated with the pre-CCR Rule closed portions of the CADL rather than the CCR Unit. Therefore, concentrations measured in MW-106S may be more reflective of pre-CCR Rule disposal rather than of the CCR Unit.
- Surface water that has come into contact with on-site CCR at the CCR Unit has migrated from the perimeter drainage swale for the CCR Unit due to periodic build-up of sediment within the perimeter surface water swale. When this build-up occurs, surface water flows out of the swale and over the adjoining access road and then to the area of MW-106S. This drainage swale carries surface water runoff from closed portions of the CADL as well as from the CCR Unit. This surface water ultimately migrates from the MW-106S area via surface water swales within the ADEQ-permitted CADL footprint, with ultimate discharge into the site surge pond as per EAL's NPDES permit. Based on the close proximity of this surface water to MW-106S, it appears likely that surface water infiltration may be impacting the MW-106S monitoring results.

3.4 Boron at MW-110S

The boron SSI identified at MW-110S is a result of acidic groundwater geochemistry conditions and potential impact of CCR disposed at the CADL prior to October 19, 2015. The following evidence supports this determination:

- Boron was detected in MW-110S at a concentration of 2.15 mg/L in the September 2025 sample, which exceeded the intrawell prediction limit of 1.586 mg/L. Compared to the value of 2.47 mg/L in the April 2025 sample, the boron concentration decreased by 13%. The Mann-Kendal statistic of 233 exceeded the critical value of 101 indicating a significant increasing trend at the 98% confidence level. As discussed in Section 2.3, the main factors that may influence boron concentration in groundwater are pH and EC. Decreasing of pH will increase the dissolution of boron from the mineral surfaces. Boron in groundwater will increase with the increasing of EC. The historical data review shows the relatively low salts concentrations in MW-110S area, which indicates EC is not the factor causing the boron increasing trend.

Low pH values of 4.86 and 4.17 were detected in the September 2025 and April 2025, respectively. The acidic groundwater condition favors the boron dissolution from soil and mineral surface. Based on the consistent boron levels in groundwater, the significant increasing trend of boron is more likely relative to the acidic geochemistry condition other than a contamination source.

- Based on review of potentiometric surface mapping, locations of historic fill, locations of closed portions of the CADL underlying the CCR Unit, and the CCR Unit relative to MW-110S, it appears that MW-110S may monitor groundwater associated with the underlying pre-CCR Rule closed portions of the CADL rather than the CCR Unit; therefore, concentrations measured in MW-110S may be more reflective of pre-CCR Rule disposal rather than of the CCR Unit.

3.5 Boron at MW-111S

The boron SSI identified at MW-111S is a result of natural groundwater geochemistry conditions with low pH and high EC, potential impact of CCR disposed at the CADL prior to October 19, 2015, and potential infiltration of surface water impacted by on-site CCR into the subsurface in the area of MW-111S. The following evidence supports this determination:

- Boron was detected in MW-111S at a concentration of 6.5 mg/L in the September 2025 sample, which exceeded the intrawell prediction limit of 4.495 mg/L. Compared to the value of 6.95 mg/L in the April 2025 sample, the boron concentration decreased by 6%. The Mann-Kendal statistic of 245 exceeded the critical value of 101 indicating a significant increasing trend at the 98% confidence level. As discussed in Section 2.3, the main factors that may influence boron concentration in groundwater are pH and EC. Decreasing of pH will increase the dissolution of boron from the mineral surfaces. Boron in groundwater will increase with the increasing of EC. A low pH value of 3.50 was detected in the September 2025 sample and the pH of groundwater in the area of MW-111S stayed in a steady range of 3.5 to 4.5 in the past five years. The acidic groundwater condition favors the boron dissolution from soil and mineral surface. The increasing TDS and sulfate in MW-111S demonstrates that the groundwater in this area has relatively high EC, which will cause the increasing of boron concentration in groundwater. Based on the consistent boron levels, the significant increasing trend of boron is more likely relative to the geochemistry conditions with low pH and high EC other than a contamination source.
- Based on review of potentiometric surface mapping and locations of closed portions of the CADL, and the CCR Unit relative to MW-111S, MW-111S may monitor groundwater associated with the pre-CCR Rule closed portions of the CADL rather than the CCR Unit. Therefore, concentrations measured in MW-111S may be more reflective of pre-CCR Rule disposal rather than of the CCR Unit.
- Surface water that has come into contact with on-site CCR at the CCR Unit has migrated from the perimeter drainage swale for the CCR Unit due to periodic build-up of sediment within

the perimeter surface water swale. When this build-up occurs, surface water flows out of the swale and over the adjoining access road and then to the area of MW-111S. This drainage swale carries surface water runoff from closed portions of the CADL as well as from the CCR Unit. This surface water ultimately migrates from the MW-111S area via surface water swales within the ADEQ-permitted CADL footprint, with ultimate discharge into the site surge pond as per EAL's NPDES permit. Based on the close proximity of this surface water to MW-111S, it appears likely that surface water infiltration may be impacting the MW-111S monitoring results.

3.6 Calcium at MW-111S

The calcium SSI identified at MW-111S is a result of natural groundwater geochemistry conditions with low pH and high EC, potential impact of CCR disposed at the CADL prior to October 19, 2015, and potential infiltration of surface water impacted by on-site CCR into the subsurface in the area of MW-111S. The following evidence supports this determination:

- Calcium was detected in MW-111S at a concentration of 80.3 mg/L in the September 2025 sample, which exceeded the intrawell prediction limit of 36.8 mg/L. Normality analysis of the calcium data set at MW-111S was non-normal requiring trend analysis of the data set to determine a potential significance increase. The Mann-Kendal statistic of 223 exceeded the critical value of 101 indicating a significant increasing trend at the 98% confidence level. As discussed in Section 2.3, pH and EC could affect calcium concentrations in groundwater. A low pH value of 3.50 was detected in the September 2025 and the pH of groundwater in the area of MW-111S stayed in a steady range of 3.5 to 4.5 in the past five years. The acidic condition favors the dissolution of calcium from soil and mineral surfaces to water phase. The relatively high EC in groundwater discussed above can also increase the calcium concentration. The significant increasing trend of calcium could be a result of the natural geochemistry conditions with low pH and high EC.
- Based on review of potentiometric surface mapping, locations of closed portions of the CADL, and the CCR Unit relative to MW-111S, MW-111S may monitor groundwater associated with the underlying pre-CCR Rule closed portions of the CADL rather than the CCR Unit. Therefore, concentrations measured in MW-111S may be more reflective of pre-CCR Rule disposal rather than of the CCR Unit.
- Surface water that has come into contact with on-site CCR at the CCR Unit has migrated from the perimeter drainage swale for the CCR Unit due to periodic build-up of sediment within the perimeter surface water swale. When this build-up occurs, surface water flows out of the swale and over the adjoining access road and then to the area of MW-111S. This drainage swale carries surface water runoff from closed portions of the CADL as well as from the CCR Unit. This surface water ultimately migrates from the MW-111S area via surface water swales within the ADEQ-permitted CADL footprint, with ultimate discharge into the site surge pond as per EAL's NPDES permit. Based on the close proximity of this surface water

to MW-111S, it appears likely that surface water infiltration may have impacted the MW-111S monitoring results.

3.7 Sulfate at MW-111S

The sulfate SSI identified at MW-111S is a result of natural groundwater geochemistry condition of low pH and potential oxidation of sulfide minerals, potential impact of CCR disposed at the CADL prior to October 19, 2015, and potential infiltration of surface water impacted by on-site CCR into the subsurface in the area of MW-111S. The following evidence supports this determination:

- Sulfate was detected in MW-111S at a concentration of 721 mg/L in the September 2025 sample, which exceeded the intrawell prediction limit of 398 mg/L. Compared to the value of 775 mg/L in the April 2025 sample, the sulfate concentrations are consistent. The Mann-Kendal statistic of 212 exceeded the critical value of 101 indicating a significant increasing trend at the 98% confidence level. The sulfate increasing was consistent with the TDS increasing, which indicated that more salts were dissolved into groundwater. It could be caused by the acidic geochemistry condition discussed above or an anthropogenic source since sulfate is soluble in soils and can get into groundwater via surface water infiltration. Another potential reason is the naturally occurrence of sulfide minerals in the soil, such as pyrite. The oxidation of sulfide minerals will slowly release sulfate and hydrogen ion into groundwater, which will lead to the increasing of sulfate and decreasing of pH.
- Based on review of potentiometric surface mapping and locations of closed portions of the CADL, and the CCR Unit relative to MW-111S, MW-111S may monitor groundwater associated with the pre-CCR Rule closed portions of the CADL rather than the CCR Unit; therefore, concentrations measured in MW-111S may be more reflective of pre-CCR Rule disposal rather than of the CCR Unit.
- Surface water that has come into contact with on-site CCR at the CCR Unit has migrated from the perimeter drainage swale for the CCR Unit due to periodic build-up of sediment within the perimeter surface water swale. When this build-up occurs, surface water flows out of the swale and over the adjoining access road and then to the area of MW-111S. This drainage swale carries surface water runoff from closed portions of the CADL as well as from the CCR Unit. This surface water ultimately migrates from the MW-111S area via surface water swales within the ADEQ-permitted CADL footprint, with ultimate discharge into the site surge pond as per EAL's NPDES permit. Based on the close proximity of this surface water to MW-111S, it appears likely that surface water infiltration may have impacted the MW-111S monitoring results.

3.8 TDS at MW-111S

The TDS SSI identified at MW-111S is a result of the acidic groundwater geochemistry conditions with natural occurrence of sulfide minerals, sodium sulfate source, the potential impact of CCR disposed at the CADL prior to October 19, 2015 and potential infiltration of surface water impacted by on-site CCR into the subsurface in the area of MW-111S. The following evidence supports this determination:

- TDS was detected in MW-111S at a concentration of 1,150 mg/L in the September 2025 sample, which exceeded the intrawell prediction limit of 541 mg/L. Compared to the value of 1,200 mg/L in the April 2025 sample, the TDS concentrations are consistent. The Mann-Kendal statistic of 242 exceeded the critical value of 101 indicating a significant increasing trend at the 98% confidence level. As discussed in Section 2.2, the Jackson Group groundwater is sodium- and calcium-sulfate water type. Sodium could be another main contribution to the TDS exceedance with the increasing of calcium and sulfate. High sodium concentration can also cause the fluoride exceedance. The acidic groundwater could be one of the potential reasons. An alternate source containing sodium sulfate should also be considered, which can be mineral dissolution, surface water flux or atmospheric deposition.
- Based on review of potentiometric surface mapping, locations of closed portions of the CADL, and the CCR Unit relative to MW-111S, MW-111S may monitor groundwater associated with the pre-CCR Rule closed portions of the CADL rather than the CCR Unit. Therefore, concentrations measured in MW-111S may be more reflective of pre-CCR Rule disposal rather than of the Unit.
- Surface water that has come into contact with on-site CCR at the CCR Unit has migrated from the perimeter drainage swale for the CCR Unit due to periodic build-up of sediment within the perimeter surface water swale. When this build-up occurs, surface water flows out of the swale and over the adjoining access road and then to the area of MW-111S. This drainage swale carries surface water runoff from closed portions of the CADL as well as from the CCR Unit. This surface water ultimately migrates from the MW-111S area via surface water swales within the ADEQ-permitted CADL footprint, with ultimate discharge into the site surge pond as per EAL's NPDES permit. Based on the close proximity of this surface water to MW-111S, it appears likely that surface water infiltration may have impacted the MW-111S monitoring results.

3.9 Boron at MW-112D

The boron SSI identified at MW-112D is a result of natural variation in groundwater quality and potential impact of CCR disposed at the CADL prior to October 19, 2015. The following evidence supports this determination:

- Boron was detected in MW-112D at a concentration of 0.277 mg/L in the September 2025 sample, which was consistent with 0.291 mg/L in the April 2025 sample. This concentration

exceeds the intrawell prediction limit of 0.252 mg/L. The Mann-Kendal statistic of 261 exceeded the critical value of 106 indicating a significant increasing trend at the 98% confidence level. Boron concentrations measured at MW-118D (background well for Stratum III) have ranged from 0.272 to 0.355 mg/L. Therefore, the boron exceedance at MW-112D is within the range of variation in background groundwater quality and is not a potential environmental concern.

- Based on review of potentiometric surface mapping, locations of closed portions of the CADL, and the CCR Unit relative to MW-112D, MW-112D is located immediately adjacent (approximately 25 feet) to historic fill, but approximately 950 feet from the CCR Unit. Therefore, the concentrations of boron measured in MW-112D may be more reflective of pre-CCR Rule disposal rather than of the CCR Unit.
- Groundwater flow velocities are estimated to be approximately <1 ft/year to 10 ft/year (TRC 2018a). Since, MW-112D is located approximately 950 feet from the CCR unit, any release from the CCR Unit would be detected in Stratum III at MW-112D within approximately 95 years, which is significantly longer than the CCR Unit has been in operation. Therefore, the concentration of boron at MW-112D likely represents either potential pre-CCR Rule migration from historic fill or background groundwater quality for Stratum III.

3.10 Calcium at MW-112D

The calcium SSI identified at MW-112D is a result of natural variation in groundwater quality and potential impact of CCR disposed at the CADL prior to October 19, 2015. The following evidence supports this determination:

- Calcium was detected in MW-112D at a concentration of 42.8 mg/L in the September 2025 sample, which was consistent with 43.2 mg/L in the April 2025 sample. This concentration exceeds the intrawell prediction limit of 22.5 mg/L. The Mann-Kendal statistic of 314 exceeded the critical value of 106 indicating a significant increasing trend at the 98% confidence level. The relatively low TDS indicated that EC in groundwater is not a factor to the calcium exceedance. Calcium concentrations measured at MW-118D (background well for Stratum III) have ranged from 68.4 to 83.2 mg/L. Therefore, the calcium exceedance at MW-112D is within the range of variation in background groundwater quality and is not a potential environmental concern.
- Based on review of potentiometric surface mapping, locations of historic fill, locations of closed portions of the CADL, and the CCR Unit relative to MW-112D, MW-112D is located immediately adjacent (approximately 25 feet) to historic fill, but approximately 950 feet from the CCR Unit. Therefore, the concentrations of calcium measured in MW-112D may be more reflective of pre-CCR Rule disposal rather than of the CCR Unit.
- As discussed previously, groundwater flow velocities are estimated to be approximately <1 ft/year to 10 ft/year (TRC 2018a). Since, MW-112D is located approximately 950 feet from the

CCR Unit, any release from the CCR Unit would be detected in Stratum III at MW-112D within approximately 95 years, which is significantly longer than the CCR Unit has been in operation. Therefore, the concentration of calcium at MW-112D likely represents either potential pre-CCR Rule migration from historic fill or background groundwater quality for Stratum III.

3.11 TDS at MW-112D

The TDS SSI identified at MW-112D is a result of natural variation in groundwater quality and potential impact of CCR disposed at the CADL prior to October 19, 2015. The following evidence supports this determination:

- TDS was detected in MW-112D at a concentration of 331 mg/L in the September 2025 sample, which exceeded the intrawell prediction limit of 205 mg/L. Compared to the value of 326 mg/L in the April 2025 sample, the TDS concentrations are consistent. The Mann-Kendal statistic of 295 exceeded the critical value of 106 indicating a significant increasing trend at the 98% confidence level. TDS concentrations measured at MW-118D (background well for Stratum III) have ranged from 415 to 502 mg/L. A review of groundwater parameters in Stratum III indicates that sulfate is a great contributor to TDS, but the sulfate concentration at MW-112D is very low (5.83 mg/L). Therefore, the TDS exceedance at MW-112D is within the range of variation in background groundwater quality and is not a potential environmental concern.
- Based on review of potentiometric surface mapping, locations of historic fill, locations of closed portions of the CADL, and the CCR Unit relative to MW-112D, MW-112D is located immediately adjacent (approximately 25 feet) to historic fill, but approximately 950 feet from the CCR Unit. Therefore, the concentrations of TDS measured in MW-112D may be more reflective of pre-CCR Rule disposal rather than of the CCR Unit.
- As discussed previously, groundwater flow velocities are estimated to be approximately <1 ft/year to 10 ft/year (TRC 2018a). Since, MW-112D is located approximately 950 feet from the CCR unit, any release from the CCR Unit would be detected in Stratum III at MW-112D within approximately 95 years, which is significantly longer than the CCR Unit has been in operation. Therefore, the concentration of TDS at MW-112D likely represents either potential pre-CCR Rule migration from the historic fill or background groundwater quality for Stratum III.

Section 4

Conclusions

The information provided in this report serves as the ASD prepared in accordance with 40 CFR 257.94(e)(2) of the CCR Rule. Statistical evaluation identified 11 potential SSIs in three monitoring wells in Stratum I and one monitoring well in Stratum III. This ASD has demonstrated the following lines of reasoning that support alternative sources for the identified SSIs:

- Historical data indicated acidic groundwater geochemistry conditions in MW-106S, and MW-111S. The 8 SSIs identified in Stratum I are related to the natural groundwater geochemistry conditions, such as low pH, high electrical conductivity, potential presence of sulfide minerals in soils and relatively high oxidation-reduction potential.
- The 3 SSIs identified in Stratum III wells MW-112D are mostly within the natural variation in groundwater quality compared to MW-118D, which likely represents background natural groundwater quality of Stratum III due to its location to CCR Unit and groundwater flow velocities.
- Releases from historic fill or portions of the CADL closed before the effective date of the CCR Rule (October 19, 2015); and/or
- Surface water that has come into contact with on-site CCR and has migrated into the subsurface.

Therefore, the SSIs determined based on statistical analysis of the 2nd Half 2025 semiannual detection monitoring event performed in September 2025 are not due to a release from the CCR Unit to Stratum I and III of the Jackson Group. Based on the information provided in this ASD report, EAL will continue to conduct semiannual detection monitoring in accordance with 40 CFR 257.94 at the Certified Monitoring Well Network for the CCR Unit.

Section 5 Certification

I hereby certify that the alternative source demonstration presented within this document for the Entergy White Bluff Plant Coal Ash Disposal Landfill CCR Unit has been prepared to meet the requirements of Title 40 CFR §257.94(e) 2 of the Federal CCR Rule. This document is accurate and has been prepared in accordance with good engineering practices, including the consideration of applicable industry standards, and with the requirements of Title 40 CFR §257.94(e) 2.

Name: Wenbo Xie P.E.

Expiration Date: 12/20/2026

Company: TRC Environmental Corporation

Date: 12/20/2025



Wenbo Xie

(SEAL)

Section 6

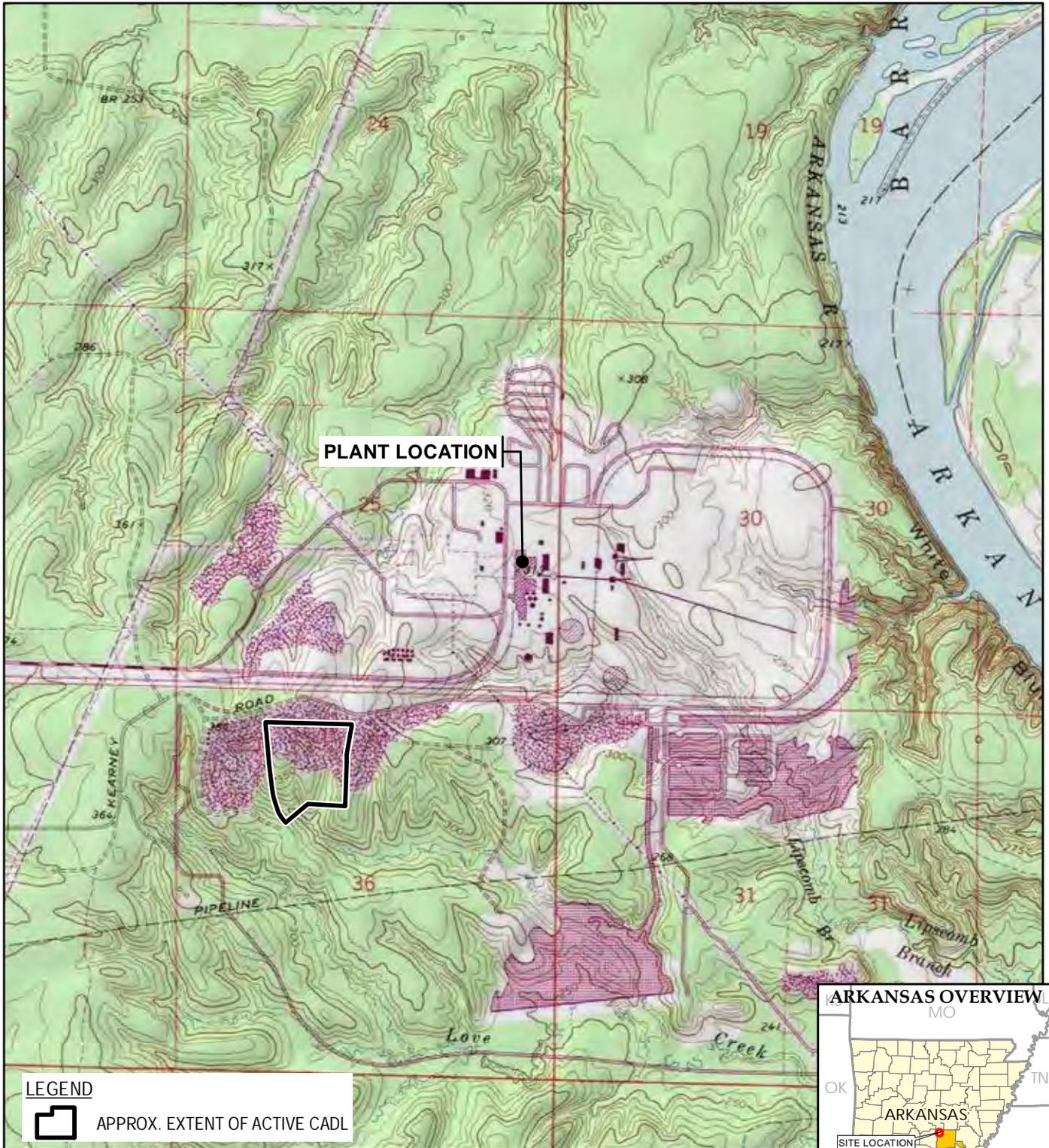
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BASE MAP FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE SERIES.



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TRC - GIS

PROJECT: **ENERGY WHITE BLUFF PLANT
1100 WHITE BLUFF ROAD
REDFIELD, ARKANSAS**

TITLE: **ENERGY WHITE BLUFF
PLANT LOCATION MAP**

DRAWN BY:	D. STITCHER
CHECKED BY:	W. XIE
APPROVED BY:	E. GAINES
DATE:	NOVEMBER 2025
PROJ. NO.:	635879
FILE:	341458-001slm_20251120.mxd

FIGURE 1

Item: NAD 1983 StatePlane Arkansas South FIPS 50302 Feet Map Rotation: 0
 -- Saved By: DSTITCHER on 11/11/2025, 09:56:37 AM. File Path: T:\aragis\proj1\PROJECTS\ENTERG\635879_Groundwater_Contour_Maps\0-APRX\November_2025_Groundwater_Contour_Maps.aprx. Layout Name: Figure 1 Well Location Map



- LEGEND**
- STRATUM I MW
 - STRATUM III BACKGROUND WELL
 - STRATUM III MW
 - STRATUM III PIEZOMETER
 - APPROX. EXTENT OF CLOSED CADL
 - APPROX. EXTENT OF ACTIVE CADL

BASE MAP: ESRI "WORLD IMAGERY" ONLINE SERVICE LAYER.
 (AERIAL DATE: 10/21/2021)
 DATA SOURCES: TRC



1:4,800
 1" = 400'
 0 400 800 FEET

PROJECT: ENTERGY WHITE BLUFF PLANT 1100 WHITE BLUFF ROAD REDFIELD, ARKANSAS	
TITLE: CADL EXTENT AND CCR GROUNDWATER MONITORING LOCATIONS	
DRAWN BY: D. STITCHER	PROJ. NO.: 635879
CHECKED BY: W. XIE	FIGURE 1
APPROVED BY: E. GAINES	
DATE: NOVEMBER 2025	
700 HIGHLANDER BLVD. SUITE 210 ARLINGTON, TX 76015 T: (817) 522-1000	
FILE: November_2025_Groundwater_Contour_Maps.aprx	

APPENDIX 1

Historical Data

Well	Date	Boron (mg/L)	Calcium (mg/L)	Chloride (mg/L)	TDS (mg/L)	Fluoride (mg/L)	pH (s.u.)	Sulfate (mg/L)
MW-101D	3/13/2017	0.129(J)	20.4	6.93	248	0.122	6.7	n/a
	4/3/2017	0.0885(J)	18.6	7.75	246	0.0955	6.3	n/a
	4/25/2017	0.112(J)	16.7	7.35	217	0.101(J)	6.2	n/a
	5/16/2017	0.092(J)	17.5	6.98	228	0.129	6.3	n/a
	6/5/2017	0.142(J)	28.3	7.19	278	0.101	6.6	n/a
	6/27/2017	0.102(J)	23.3	7	1170	0.119	6.3	n/a
	7/18/2017	0.143(BJ)	38	7.02	286	0.104	6.5	n/a
	8/8/2017	0.131(J)	29.5(B)	7.05	283	0.123	6.1	n/a
	8/29/2017	0.128(J)	29.1	6.79	243	0.109	6.6	n/a
	3/26/2018	0.121(J)	28.6	6.94	270	0.0707	6.5	n/a
	8/13/2018	0.0994(J)	38.3	6.42	337	0.0725(J)	6.5	n/a
	9/20/2018	n/a	n/a	n/a	n/a	n/a	4.7	n/a
	3/5/2019	0.111(J)	30.5	5.6	280	0.125	6.2	n/a
	8/28/2019	0.118(J)	43.9	6.15	316	0.0962	6.6	n/a
	11/19/2019	n/a	n/a	n/a	n/a	n/a	6.8	n/a
	3/26/2020	0.0621(J)	26.9	6.25	263	0.125	6.41	41
	12/9/2020	0.18(J)	56.8	6.28	384	<0.15*	6.93	80.6
	8/19/2021	0.184(J)	55.3	5.82	399	0.117(J)	7.09	85.3
	12/2/2021	<0.02	56.3	5.03	378	<0.064	7.44	75.6
	06/15/2022	<0.200	50.8	7.38	354	<0.150	7.75	77.4
	12/06/2022	0.206	54.3	6.3	397	<0.150	7.15	89.9
	06/08/2023	<0.200	48	5.99	349	<0.150	1.55	74
	11/17/2023	<0.200	56.9	5.85	297	<0.150	7.06	80.1
	05/20/2024	<0.200	45.3	5.66	316	<0.150	6.88	64.4
	11/22/2024	<0.200	56.3	6.39	382	<0.150	6.88	85.7
	04/29/2025	<0.200	57.5	5.28	380	<0.150	6.85	<5.00
	09/18/2025	<0.200	54.1	6.20	363	<0.150	6.00	81.4
MW-101S	10/20/2015	0.06(J)	17.5	9.62	220(B)	0.0521(J)	6.1	49
	1/25/2016	0.0717(J)	33.8	8.63	421	0.0929(J)	11	70.4
	4/12/2016	0.0781(J)	98.5	7.11	301	0.0474(J)	9.4	56
	7/11/2016	0.0792(BJ)	23.8	7.57	335(B)	0.0272(J)	6.2	51.3
	10/3/2016	0.0668(J)	15.7	7.43	195(B)	0.0255(J)	5.6	50.2
	1/20/2017	0.0872(J)	17.5	7.72	232(B)	0.0471(J)	6	54.7
	4/3/2017	0.0671(J)	46.1	7.28	399	0.0473(J)	6.8	49.7
	6/5/2017	0.0794(J)	34.3	7.66	289	0.0592(J)	6.4	49.2
	8/29/2017	0.0811(J)	14	7.21	197	<0.1	5.8	51
	3/26/2018	0.093(J)	46.1	6.24	312	0.0453(J)	6.9	43.5
	8/13/2018	0.0487(J)	14.1	7.06	217	<0.1	5.9	46.9
	3/5/2019	0.0819(J)	36.2	6.34	278	0.0798(J)	6.4	44.2

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	8/29/2019	0.0362(J)	14.5	7.81	213	0.0296(J)	5.9	51.6
	3/26/2020	0.0433(J)	36.3	7.45	261	0.105	6.09	44.4
	12/9/2020	0.0238(J)	14.8	7.52	200	<0.15*	5.69	48.7
	8/19/2021	0.0329(J)	15(O1)	7.53	228	0.077(J)	5.98	49.4
	12/1/2021	<0.02	14.3	7.29	207	<0.064	6.76	49
	06/15/2022	<0.200	21.8	8.52	234	<0.150	5.98	52.5
	12/07/2022	<0.200	15.9	7.65	217	<0.150	5.51	51.3
	06/08/2023	<0.200	15.4	7.5	208	<0.150	4.67	49.1
	11/17/2023	<0.200	15	7.38	194	<0.150	6.04	47.7
	05/20/2024	<0.200	17.7	7.06	206	<0.150	5.82	47.1
	11/20/2024	<0.200	15.4	7.02	204	<0.150	5.82	50.8
	04/29/2025	<0.200	19.5	6.47	219	<0.150	5.85	48.5
	09/18/2025	<0.200	15.1	7.49	212	<0.150	4.88	50.8
MW-102D	10/20/2015	0.227	72.8	11.6	451(B)	0.114	7.6	122
	1/25/2016	0.281	95.8	13.5	583	0.079(J)	8.7	168
	4/12/2016	0.302	98.9	13.2	598	0.059(J)	6.9	177
	7/11/2016	0.303(B)	97.7	19.5	610(B)	0.122	7.3	172
	10/3/2016	0.31	98.6	13	592(B)	0.0553(J)	6.8	170
	1/20/2017	0.332	94.6	12.4	625(B)	0.0672(J)	7.3	145
	4/3/2017	0.29	101	12	592	0.0671(J)	7.2	145
	6/5/2017	0.306	96.5	11.9	660	0.0777(J)	7.3	139
	8/29/2017	0.323	100	11.5	540	0.0936(J)	7.2	26.9
	3/26/2018	0.32	93.3	11.1	550	0.0472(J)	7.2	114
	8/13/2018	0.282	87.6	11	535	0.0349(J)	6.1	110
	3/5/2019	0.314	81	9.48	506	0.102	7	79.7
	8/28/2019	0.265	77.3	10.1	338	0.0864(J)	7.1	71.1
	3/26/2020	n/a	n/a	n/a	n/a	n/a	6.41	n/a
	4/1/2020	0.177	n/a	6.08	354	n/a	n/a	78.9
	4/6/2020	n/a	55.3	n/a	n/a	0.117(J)	n/a	n/a
	12/10/2020	0.28	76.1	8.52	445	0.102(J)	7.15	39.3
	8/19/2021	0.275	1	8.55	456	0.106(J)	n/a	47.2
	12/2/2021	0.27	73.8	8.25	456	<0.064	7.49	43.8
	06/14/2022	0.274	69.2	8.54	406	<0.150	8.17	33.8
	12/07/2022	0.26	127	n/a	428	<15.0	6.8	<500
	06/08/2023	0.277	66.9	8.28	487	<0.150	3.68	29.1
	11/17/2023	0.275	67.2	8.22	445	<0.150	7.47	25.7
	05/20/2024	0.301	65.7	7.64	386	<0.150	7.28	23.9
	11/19/2024	0.269	76.6	7.47	556	<0.150	7.28	25.3
	04/28/2025	0.269	64.9	7.18	397	<0.150	7.28	20.4
	09/16/2025	0.260	61.1	7.28	378	<0.150	7.16	22.0

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MW-102S	10/20/2015	0.0699(J)	9.72	8.56	190(B)	0.135	6	25.4
	1/25/2016	0.0671(J)	10.9	7.51	196	0.0913(J)	7.7	21.9
	4/12/2016	0.0675(J)	9.09	6.85	181	0.071(J)	5.5	18.1
	7/11/2016	0.0688(BJ)	7.15	6.92	182(B)	0.0695(J)	6.2	19.1
	10/3/2016	0.0659(J)	8.18	7.79	149(B)	0.067(J)	5.9	21.9
	1/20/2017	0.0795(J)	7.61	7.27	193(B)	0.0797(J)	5.8	19.8
	4/3/2017	0.054(J)	8.44	7.48	154	0.0391(J)	5.7	19.5
	6/5/2017	0.083(J)	8.06	7.14	192	0.0847(J)	5.9	19
	8/29/2017	0.0638(J)	8.12	6.91	173	0.0957(J)	5.9	20.1
	3/26/2018	0.0668(J)	8.68	7.1	179	0.0514(J)	5.7	18.7
	8/13/2018	0.0387(J)	9.01	7.36	194	0.037(J)	5.4	18.7
	3/6/2019	0.0721(J)	8.63	6.56	169	0.102	5	17.9
	8/28/2019	0.021(J)	8.05	7.32	142	0.0941(J)	5.6	21.2
	3/26/2020	0.0383(J)	9.06	7.25	172	0.0968(J)	5.6	19.5
	3/27/2020	0.0305(J)	8.74	6.55	173	0.117	6.44(T8)	16.6
	12/7/2020	0.026(J)	10.1	6.35	223	0.0768(J)	5.75	16.9
	8/19/2021	0.0315(J)	9.65	7.07	184	0.103(J)	n/a	20.3
	12/1/2021	<0.02	12.6	7.19	193	<0.064	6.55	24.2
	06/14/2022	<0.200	10.3	7	183	<0.150	6.06	19.1
	12/06/2022	<0.200	16.2	8.08	3860	<0.150	5.94	27.6
	06/08/2023	<0.200	12.5	7.54	198	<0.150	4.28	23.1
	11/16/2023	<0.200	14.4	7.75	204	0.663	6.02	25.2
	05/20/2024	<0.200	11.3	6.53	164	<0.150	5.73	19.7
	11/20/2024	<0.200	15.6	7.19	195	<0.150	5.73	27.5
	04/28/2025	<0.200	13.5	6.59	193	<0.150	6.25	22.9
09/16/2025	<0.200	14.1	7.66	202	<0.150	5.88	26.3	
MW-103D	10/21/2015	0.162(J)	46.3	19.9	321(B)	0.257	11	145
	1/25/2016	0.154(J)	79.9	21.9	408	0.247	12.2	156
	4/12/2016	0.192(J)	259	13.8	720	0.28	11.8	75.9
	7/11/2016	0.146(BJ)	256	9.22	775(B)	0.288	11.8	43
	10/3/2016	0.193(J)	140	13.5	396(B)	0.329	11.4	76
	1/20/2017	0.241	38.5	17.1	306(B)	0.413	10.9	113
	4/3/2017	0.203	50.6	17.7	325	0.286	8.8	125
	6/6/2017	0.234	38.6	18.1	325	0.282	9.2	125
	8/29/2017	0.213	32	17.9	312	0.254	8.6	25.9
	3/26/2018	0.23	42.2	17.5	367	0.232	8.3	135
	8/14/2018	0.205	41.4	16.5	376	0.188	7.3	122
	3/6/2019	0.261	37.2	14.5	380	0.247	7.8	115
	8/28/2019	0.214	41.1	13.5	387	0.22	7.8	115
	3/27/2020	n/a	n/a	n/a	n/a	n/a	7.63	n/a

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	4/2/2020	0.24	40.5	12	388	0.17	n/a	94.4
	12/10/2020	0.247	48	9.63	399	0.198	7.58	86.4
	8/19/2021	0.24	46.5	8.49	441	0.199	n/a	87.5
	12/1/2021	0.271	50.2	7.99	423	0.184	7.68	76.5
	06/13/2022	0.268	50.4	9.17	407	0.165	8.3	76.7
	12/08/2022	0.276	52.5	7.89	398	0.194	7.43	71.6
	06/07/2023	0.286	54.3	7.29	422	0.166	5.13	71.6
	11/15/2023	0.274	55.6	6.75	437	0.203	7.90	63.7
	05/22/2024	0.312	56.1	6.67	435	<0.150	7.57	64.3
	11/18/2024	0.218	42.9	6.17	435	0.217	7.57	98.3
	04/29/2025	0.283	69.2	6.16	497	0.152	7.16	<5.00
	09/15/2025	0.263	61.8	6.12	479	<0.150	8.15	72.5
MW-103S	11/2/2015	0.109(J)	7.36	4.99	282(B)	0.0527(J)	4.5	91.3
	1/25/2016	0.0435(J)	8.2	6.74	271	0.0605(J)	6.4	91.4
	4/14/2016	0.183(J)	0.956(J)	0.731(J)	224(B)	<0.1	5.2	11
	7/11/2016	0.102(BJ)	2.68	5.65	206(B)	0.0347(J)	4.8	75.2
	1/24/2017	0.0878(J)	4.25	6.09	115(B)	0.0536(J)	4.7	91.9
	4/3/2017	0.115(J)	4.53	5.11	231	0.0699(J)	4.7	90
	6/6/2017	0.174(J)	0.879(J)	5.74	162	0.0544(J)	5.1	47.4
	7/18/2017	0.0891(BJ)	2.57(B)	n/a	n/a	n/a	4.7	n/a
	8/30/2017	0.0904(J)	3.77	5.5	219	0.0367(J)	4.3	85.3
	3/27/2018	0.215	0.755(J)	3.93	109	0.0439(J)	5	33.6
	8/15/2018	0.145(J)	4.93	5.24	272	0.073	4.2	74.4
	3/6/2019	0.241	1.83	3.45	141	0.0943(J)	5.5	36.2
	8/28/2019	0.142(J)	1.52	5.43	202	0.0393(J)	5.2	68.5
	3/26/2020	0.186(J)	10.3	3.14	134	0.119	5.58	31.9
	12/1/2020	n/a	n/a	n/a	n/a	n/a	5.17	n/a
	12/2/2020	0.123(J)	3.99	4.82	229	0.0696(J)	5.36(T8)	68.3
	8/19/2021	0.152(J)	3.26	3.39(B)	127	0.0857(J)	n/a	27.6
	12/1/2021	<0.02	4.9	4.18(B)	187	<0.064	5.4	70.4
	06/13/2022	<0.200	3.96	4.62	122	<0.150	4.31	39.5
	12/06/2022	0.282	5.41	5.14	980	<0.150	4.73	79.4
	06/07/2023	<0.200	4.57	4.07	117	<0.150	4.56	37
	11/15/2023	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	05/22/2024	0.218	5.99	7.94	212	<0.150	5.02	50.7
	11/22/2024	0.608	10.7	7.59	221	<0.750	5.02	92.3
	04/22/2025	<0.200	4.7	5.75	151	<0.150	4.86	43.8
	09/15/2025	0.537	6.91	5.29	237	<0.150	5.69	85.1
MW-104D	10/20/2015	0.155(J)	21.1	7.2	136(B)	0.087(J)	7.5	15.1
	1/25/2016	0.21	31.2	8.41	203	0.0868(J)	8.4	15.9

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	4/13/2016	0.233	38.6	8.86	232	0.0834(J)	7.1	16.1
	7/11/2016	0.244(B)	40.1	8.82	260(B)	0.0514(J)	7.5	12.8
	10/3/2016	0.255	44	9.92	298(B)	0.0471(J)	7	19.8
	1/20/2017	0.265	44	9.71	270(B)	0.0633(J)	7.5	18.1
	4/3/2017	0.177(J)	36.3	9.06	207	0.0334(J)	7.1	1.42(J)
	6/6/2017	0.271	48.3	9.94	287	0.0717(J)	7.5	19
	8/29/2017	0.26	48.3	9.26	270	0.0845(J)	7.2	14.8
	3/26/2018	0.276	51.2	9.87	304	0.0928(J)	7.3	19.3
	8/13/2018	0.244	52	9.86	304	0.026(J)	6.8	18.2
	3/6/2019	0.255	50.6	9.9	305	0.0658(J)	7.2	19.3
	8/28/2019	0.216	52.7	10.3	320	0.0562(J)	7.5	21.1
	3/27/2020	n/a	n/a	n/a	n/a	n/a	7.2	n/a
	4/6/2020	0.219	50	10.1	310	0.0736(J)	n/a	18.1
	12/11/2020	0.223	55.7	9.43	319	0.099(J)	7.17	14
	8/19/2021	0.231	53.1	9.62	327	0.101(J)	n/a	10.4
	12/2/2021	0.235	55	9.79	324	<0.064	7.7	17.3
	06/15/2022	0.28	53.1	8.95	319	<0.150	6.97	29.7
	12/05/2022	0.277	52.1	7.46	331	<0.150	7.62	25.9
	06/07/2023	0.245	55.4	9.3	321	<0.150	6.19	20.1
	11/14/2023	0.241	52.6	9.25	333	0.202	7.61	17.5
	05/21/2024	0.26	56.7	10.1	334	<0.150	7.33	16.2
	11/19/2024	0.235	58.3	8.82	330	<0.150	7.33	23.1
	04/28/2025	0.239	56.7	8.42	334	<0.150	7.24	23.8
	09/16/2025	0.230	55.0	8.62	329	<0.150	7.22	23.7
MW-104S	10/20/2015	0.843	17.6	5.78	272(B)	0.0778	5.2	90.4
	1/25/2016	0.916	17	3.86	274	0.0293	5.9	88.2
	4/12/2016	0.936	17.4	4.27	286	0.0282	n/a	114
	7/12/2016	0.929(B)	16.4	4.41	320(B)	0.0266	8	87.1
	10/3/2016	0.966	19.8	4.37	301(B)	0.0393	5.3	90.1
	1/23/2017	1	18.2	4.17	333(B)	0.0672	5.4	84.4
	4/5/2017	0.822	19.8	4.32	353	0.0988	5.5	82.5
	6/7/2017	0.802	22.2	4.71	348	0.0885	5.6	86.1
	8/30/2017	0.839	28.1	3.69	338	<0.1	5.7	88.7
	3/27/2018	0.803	30.6	4.04	309	0.124	5.6	84.1
	8/15/2018	0.659	28.4	4.08	305	0.0337	4.9	81.5
	3/7/2019	0.795	26.8	3.92	278	0.0545	5.2	82.6
	8/29/2019	0.662	25.7	4.22	227	0.0398	5.4	86.7
	3/26/2020	0.853	20.7	3.95	269	0.0874(J)	5.14	74.6
	12/2/2020	0.727	20.3	3.86	250	<0.15*	5.3	76.2
	8/19/2021	0.828	17.7	4.17(B)	265	0.0716(J)	n/a	76.4
	12/2/2021	0.723	20.5	4.01(B)	259	<0.064	5.56	83.6

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	06/13/2022	0.863	15.5	4.92	248	<0.150	4.82	71.7
	12/08/2022	0.837	15.6	4.34	248	<0.150	4.9	79.6
	06/07/2023	0.782	16.3	4.58	233	<0.150	5	73.9
	11/14/2023	0.834	14.4	4.39	253	0.17	5.50	65.7
	05/21/2024	0.911	19	4.05	232	<0.150	5.19	64.5
	11/19/2024	0.743	15.9	3.95	228	<0.150	5.19	71.1
	04/28/2025	0.827	14.7	3.75	243	<0.150	5.07	68.2
	09/16/2025	0.762	14.8	4.39	234	<0.150	4.94	68.4
MW-105D	10/20/2015	0.211	27.2	6.92	206(B)	0.125	7.7	18.2
	1/25/2016	0.259	35.2	7.51	233	0.123	9.8	15.9
	4/12/2016	0.145(J)	21.9	6.58	229	0.0882(J)	6.6	10.7
	7/11/2016	0.275	40.5	7.39	256(B)	0.0739(J)	9.1	16.4
	10/3/2016	0.284	45.7	8.28	279(B)	0.072(J)	7.6	24
	1/20/2017	0.308	46.8	7.39	299(B)	<0.1	7.6	26.7
	4/4/2017	0.254	48.8	7.28	285	0.0473(J)	7.4	49.7
	6/6/2017	0.312	52.3	8.56	317	0.0856(J)	7.6	33.9
	8/29/2017	0.284	50.1	8.19	303	0.0982(J)	7.4	35
	3/26/2018	0.312	53.9	8.41	345	0.0982(J)	7.5	39.8
	8/13/2018	0.273	51.6	8.82	355	0.0208(J)	7.1	34.4
	3/6/2019	0.313	53.1	8.52	329	0.0793(J)	7.5	30.6
	8/28/2019	0.254	54.8	8.85	331	0.0772(J)	7.6	33.9
	3/27/2020	n/a	n/a	n/a	n/a	n/a	7.14	n/a
	4/6/2020	0.279	55.6	8.34	334	0.0752(J)	n/a	29
	12/9/2020	0.27	58.1	8.81	368	0.0805(J)	7.45	31.4
	8/19/2021	0.153(J)	33.2	6.71	237	0.104(J)	n/a	4.56(J)
	12/3/2021	0.267	58	8.36	348	<0.064	7.67	29.3
	06/14/2022	0.284	56.8	8.36	343	<0.150	8.61	28.7
	12/08/2022	0.28	57.2	8.99	353	<0.150	7.78	29.5
	06/06/2023	0.284	54.4	8.28	331	<0.150	5.11	26.3
	11/14/2023	0.273	53.7	8.94	332	0.31	7.71	27
	05/21/2024	0.293	59	8.17	339	<0.150	7.62	26.6
	11/19/2024	0.271	56.3	7.86	335	<0.150	7.62	29.8
	04/29/2025	0.277	57.8	7.7	358	<0.150	7.49	24.1
	09/19/2025	0.273	55.1	8.39	346	<0.150	6.96	28.7
MW-105S	10/20/2015	0.0822(J)	40.4	10.2	308(B)	0.104	6.1	57.6
	1/25/2016	0.227	109	9.85	382	0.319	n/a	53.3
	4/12/2016	0.112(J)	85.4	4.8	339	0.0994(J)	6.8	33.9
	7/12/2016	0.102(J)	56.3	4.42	333(B)	0.0606(J)	7	29.7
	10/4/2016	0.0809(J)	44.3	5.38	293(B)	0.0373(J)	6.1	30.8
	1/23/2017	0.157(J)	39.3	5.76	285(B)	0.1	6.9	45.4

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Entergy White Bluff Landfill CCR Database

	4/5/2017	0.208	33.1	8.95	330	0.213	10.9	70.7
	6/6/2017	0.123(J)	36.9	4.82	277	0.0926(J)	7.7	35.8
	8/30/2017	0.083(J)	33.1	4	236	<0.1	6	28.2
	3/28/2018	0.078(J)	19.7	3.76	199	0.0372(J)	6	26.3
	8/14/2018	0.0758(J)	17.5	5.2	242	0.0349(J)	5.4	29.8
	3/7/2019	0.734	36.3	10.2	447	0.214	6.1	97.1
	8/29/2019	0.701	49.8	10.5	399	0.0992(J)	6.3	114
	3/26/2020	0.263	24.9	4.99	238	0.107	5.98	44.5
	12/2/2020	0.0737(J)	22.2	4.18	228	0.0774(J)	6.24	33.6
	8/19/2021	0.0589(J)	15.1	4.44(B)	208	0.0935(J)	n/a	27.4
	12/3/2021	<0.02	17.5	5.04	205	<0.064	5.74	32.1
	06/14/2022	<0.200	14.6	3.95	179	<0.150	5.97	23.2
	12/06/2022	<0.200	15.3	5.25	97	<0.150	5.57	32
	06/07/2023	<0.200	13.7	4.07	173	<0.150	5.77	21.5
	11/14/2023	<0.200	16.3	4.83	207	0.171	6.02	28.3
	05/21/2024	<0.200	17.7	3.73	179	<0.150	6.07	21.6
	11/19/2024	<0.200	17.9	4.9	199	<0.150	6.1	33.4
	04/30/2025	<0.200	15.1	3.59	187	<0.150	5.9	21.1
	09/19/2025	<0.200	17.0	5.18	202	<0.150	5.5	30.8
MW-106D	10/21/2015	0.321	41.6	6.09	298(B)	0.079(J)	7.5	35
	1/25/2016	0.301	37.6	8.55	332	0.0919(J)	10.2	48.1
	4/12/2016	0.358	48.4	7.38	334	0.0869(J)	6.9	41.6
	7/11/2016	0.349	47.8	6.67	334(B)	0.06(J)	8.8	31.9
	10/3/2016	0.335	45.4	8.56	352(B)	0.064(J)	7.2	32.9
	1/20/2017	0.382	48.9	6.03	341(B)	<0.1	7.5	25.3
	4/3/2017	0.313	52.8	6.68	321	0.0675(J)	7.1	22.6
	6/6/2017	0.354	51.7	6.52	338	0.0824(J)	8.4	20.2
	8/29/2017	0.335	52.2	5.21	324	<0.1	7.4	19.4
	3/26/2018	0.366	52.7	5.62	318	0.101	7.3	19
	8/14/2018	0.313	51.6	5.6	329	0.0405(J)	6.9	19.4
	3/6/2019	0.333	51	5.48	329	0.0599(J)	7.4	18.9
	8/28/2019	0.293	53.2	5.67	345	0.0714(J)	7.5	22.7
	3/27/2020	n/a	n/a	n/a	n/a	n/a	7.29	n/a
	4/2/2020	0.301	53.2	5.55	343	0.106(J)	n/a	19.4
	12/12/2020	0.296	55.2	5.44	352	0.077(J)	7.46	13.3
	8/19/2021	0.296	52.1	4.85(B)	351	0.114(J)	n/a	13.1
	12/3/2021	0.307	56.4	5.85	356	<0.064	7.46	14.2
	06/14/2022	0.305	57.9	6.06	531	<0.150	8.49	13.2
	12/08/2022	0.304	56.7	5.92	329	<0.150	7.21	12.5
	06/07/2023	0.277	42.9	5.01	210	<0.150	6.75	10.3
	11/17/2023	0.249	37.1	<10.0	185	<1.50	9.99	<50.0

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	05/21/2024	0.243	36.9	4.74	184	<0.150	10.82	10.8
	11/20/2024	0.242	28.1	<10.0	184	<1.50	10.82	<50.0
	04/30/2025	0.307	52.2	4.9	356	<0.150	7.57	9.38
	09/17/2025	0.250	17.3	5.26	192	<0.150	9.12	12.2
MW-106S	10/21/2015	6.34	16	13.8	693(B)	0.348	4.3	350
	1/25/2016	7.5	16.6	10.5	629	0.344	4.5	385
	4/12/2016	6.93	16.8	8.98	605	0.483	4.6	462
	7/12/2016	6.06(B)	16.3	11.9	589(B)	0.333	5.9	375
	10/4/2016	6.38	16.3	13.8	654(B)	0.429	4.1	430
	1/24/2017	7.14	17.1	12.6	652(B)	0.429	4	434
	4/5/2017	7.19	20.4	9.9	699	0.434	4.3	427
	6/6/2017	7.36	18.9	9.64	691	0.382	4.5	478
	8/30/2017	7.45	17.8	10.2	674	0.336	4.1	368
	3/27/2018	7.07	20.4	11.1	688	0.481	4.2	456
	8/14/2018	6.52	25.5	12.6	738	0.541	3.6	479
	3/7/2019	6.52	24.2	9.57	675	0.449	4	440
	8/29/2019	6.54	31.2	11.8	816	0.626	4	545
	3/25/2020	5.86	31.6	9.01	769	0.519	4.16	497
	12/2/2020	6.61	33.5	10.3	899	0.687	4.02	615
	8/19/2021	6.39	32.5	10.6	980	0.683	4.13	640
	11/30/2021	7.43	40.2	11.1	1090	0.681	3.91	710
	06/14/2022	5.85	30	11	920	0.661	4.01	633
	12/06/2022	6.39	31.6	13.1	979	0.803	3.83	643
	06/07/2023	7.4	46.8	13.3	1200	0.728	4.02	808
	11/17/2023	6.91	40.5	12.6	1040	0.695	4.00	698
	05/21/2024	7.12	38	12.5	1120	0.901	3.96	752
	11/20/2024	6.84	41.7	11.9	1200	<1.50	4	802
	04/22/2025	8.53	38.7	11.4	1260	<0.750	4.03	813
	09/17/2025	7.91	34.3	13.6	1230	<1.50	3.4	807
MW-107D	10/21/2015	0.326	58.8	16.9	451(B)	0.0777(J)	7.3	162
	1/25/2016	0.205	16.5	8.85	243	0.074(J)	9.6	59.7
	4/12/2016	0.414	82	19.6	522	0.0733(J)	7.2	190
	7/11/2016	0.313	58.4	15.8	415(B)	0.0554(J)	8.6	109
	10/3/2016	0.389	83.8	19.5	521(B)	0.0636(J)	6.9	158
	1/20/2017	0.411	78.1	19	529(B)	<0.1	7.3	135
	4/3/2017	0.356	87.1	20.1	551	0.0544(J)	7.3	150
	6/6/2017	0.379	80.7	19.5	510	0.0682(J)	8.3	136
	8/29/2017	0.366	81.1	19.2	514	<0.1	7.3	155
	3/26/2018	0.376	85	20.1	536	0.093(J)	7.3	151
	8/13/2018	0.335	81.3	20.2	534	0.0306(J)	7.1	141

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	3/6/2019	0.366	79.8	19.8	506	0.069(J)	7.2	136
	8/28/2019	0.32	83.9	20.7	544	0.068(J)	7.5	159
	3/27/2020	n/a	n/a	n/a	n/a	n/a	7.17	n/a
	4/6/2020	0.321	82	17.6	493	0.0789(J)	n/a	115
	12/12/2020	0.32	81.2	20.2	530	0.0681(J)	7.34	113
	8/19/2021	0.275	61.2	16.3	483	0.12(J)	7.41	97.4
	12/3/2021	0.32	83.6	21	542	<0.064	7.28	132
	06/14/2022	0.324	85	20.3	383	<0.150	7.36	128
	12/06/2022	0.315	82.1	21.3	509	<0.150	7.13	129
	06/06/2023	0.329	82.8	20	470	<0.150	1.75	137
	11/16/2023	0.318	79	19.9	534	<0.150	8.01	125
	05/22/2024	0.315	77.9	19	512	<0.150	7.5	118
	11/22/2024	0.332	79.3	21.1	523	<0.150	7.5	128
	04/30/2025	0.317	80.2	20.1	532	<0.150	7.26	126
	09/19/2025	0.310	74.0	20.7	514	<0.150	6.89	113
MW-108D	10/21/2015	0.32	50.7	10.7	388(B)	0.13	7.4	77.2
	1/25/2016	0.349	50.4	9.77	409	0.0875(J)	9.8	71.2
	4/12/2016	0.364	65.8	11.4	449	0.0738(J)	7.3	96.4
	7/11/2016	0.363	67.9	11.2	477(B)	0.0459(J)	9.5	95.3
	10/3/2016	0.347	68.1	11	453(B)	0.0451(J)	6.9	89.7
	1/20/2017	0.394	66.4	10.2	482(B)	<0.1	7.1	87.1
	4/3/2017	0.269	53.5	10.7	379	0.0186(J)	7.3	44.4
	6/5/2017	0.375	77.4	13.3	571	0.0718(J)	7.2	95
	8/29/2017	0.364	82.1	13	506	<0.1	7.2	97.5
	3/26/2018	0.38	93.6	15.4	613	0.0967(J)	7.1	107
	8/14/2018	0.339	87.1	16.4	607	0.0569(J)	6.9	92.4
	3/5/2019	0.373	84.8	16.1	589	0.0785(J)	7.1	80.3
	8/28/2019	0.324	83.5	16.5	596	0.0721(J)	7.3	76.4
	3/27/2020	0.324	83	15.3	575	0.112	7.17	61.2
	12/4/2020	0.333	81.7	14.2	568	0.093(J)	8.17	95.2
	8/19/2021	0.337	76	13.1	545	0.109(J)	n/a	95.8
	12/1/2021	0.343	72.3	13.4	531	<0.064	7.93	70.9
	06/14/2022	0.339	72.1	13.5	501	<0.150	8.38	58.1
	12/05/2022	0.332	70.5	13.8	523	<0.150	7.63	52.5
	06/07/2023	0.352	68	12.7	469	<0.150	5.01	43.2
	11/16/2023	0.344	64.2	12.6	464	<0.150	7.74	38.6
	05/22/2024	0.336	66.4	12.2	481	<0.150	7.42	35.4
	11/20/2024	0.327	67.8	12	475	<0.150	7.42	34.9
	04/22/2025	0.349	65.4	12.6	472	0.151	7.2	33.1
	09/19/2025	0.334	66.1	12.5	490	<0.150	6.64	47.7

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MW-109D	3/13/2017	0.288	46.2	11.3	370	0.11	7.3	84
	4/3/2017	0.299	52	11.1	369	0.074(J)	7.3	87.4
	4/25/2017	0.315	46.1	11.1	390	0.0785(J)	7.2	77.1
	5/16/2017	0.307	47.9	10.6	397	0.13	6.5	78.9
	6/5/2017	0.332	49.4	10.8	383	0.0896(J)	7.3	79.5
	6/27/2017	0.321	46.1	10.5	392(B)	0.0997(BJ)	7	76.5
	7/18/2017	0.34(B)	52.4(B)	10.4	370	0.0876(J)	7.2	77.8
	8/7/2017	0.332	48.8	10.4	353	0.0784(J)	6.5	71.6
	8/28/2017	0.346	51.4	8.7	352	0.0513(J)	7.3	71.8
	3/27/2018	0.348	49.1	9.26	367	0.0867(J)	7.2	68.6
	8/14/2018	0.37	49.7	8.84	384	0.0711(J)	7.1	56.9
	3/5/2019	0.335	48.9	8.2	380	0.0863(J)	7.3	64
	8/28/2019	0.291	49.7	8.1	387	0.0823(J)	7.4	68
	3/27/2020	0.306	51.9	7.28	382	0.119	7.25	62.2
	12/11/2020	0.294	52.3	7.38	375	0.106(J)	7.23	39.9
	6/19/2021	0.313	48.4	6.82	397	0.122(J)	n/a	56.6
	12/1/2021	0.305	49.8	6.62	367	<0.064	8.14	53.5
	06/14/2022	0.312	49.9	6.91	559	<0.150	7.97	49.3
	12/05/2022	0.308	50	6.45	371	<0.150	7.71	49.6
	06/08/2023	0.321	47.4	7.47	372	<0.150	3.84	49.9
	11/16/2023	0.312	47.6	6.02	357	0.188	7.80	43.6
	05/22/2024	0.312	48.5	6.15	361	<0.150	7.43	44.9
	11/21/2024	0.305	50.2	6.04	365	<0.150	7.43	45.9
04/22/2025	0.319	49.2	<10.0	372	<1.50	7.23	<50.0	
09/17/2025	0.304	47.7	6.28	367	<0.150	7.11	43.8	
MW-110D	3/14/2017	0.344	42.9	5.84	301	0.129	7.5	50.7
	4/4/2017	0.298	44.8	6.51	327	0.107	7.6	48.5
	4/25/2017	0.302	40	6.74	332	0.0749(J)	7.6	38.9
	5/16/2017	0.294	42.3	6.38	318	0.11	7.5	34.3
	6/6/2017	0.33	42.7	6.73	330	0.0972(J)	7.3	34.7
	6/27/2017	0.304	40.2	6.26	351(B)	0.111	7.5	40.7
	7/18/2017	0.317(B)	45.3(B)	6.95	327	0.103	7.5	39.2
	8/8/2017	0.319	42.4	6.96	342	0.112	7.5	40.6
	8/29/2017	0.327	44	6.5	309	0.114	7.3	38.9
	3/26/2018	0.333	42.4	6.65	333	0.113	7.4	31.2
	8/14/2018	0.3	43.1	6.61	322	0.0709(J)	7.2	28.3
	3/6/2019	0.346	42.3	6.75	308	0.0952(J)	7.3	27.2
	8/27/2019	0.288	43.5	6.84	337	0.0895(J)	7.4	27
	3/25/2020	n/a	n/a	n/a	n/a	n/a	7.24	n/a
	4/8/2020	0.286	45.4	6.87	333	0.0806(J)	n/a	27.6
	12/8/2020	0.303	52.6	6.65	352	0.0698(J)	7.93	45.6

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	8/19/2021	0.312	46.6	6.33	358	0.103(J)	n/a	42.1
	12/1/2021	0.305	47	6.34	337	<0.064	7.94	41.3
	06/13/2022	0.306	47	7.5	332	<0.150	8.28	40.5
	12/05/2022	0.306	47.7	6.34	354	<0.150	7.71	38.9
	06/06/2023	0.322	44.7	6.63	346	<0.150	6.92	40.3
	11/16/2023	0.312	42.7	6.23	333	<0.150	8.21	38.8
	05/22/2024	0.309	46.4	6.35	352	<0.150	7.63	39.2
	11/18/2024	0.3	47.4	6.26	336	<0.150	7.63	40.4
	04/29/2025	0.311	48.8	7.04	359	<0.150	7.21	42.3
	09/15/2025	0.294	45.6	6.71	347	<0.150	8.01	39.5
MW-110S	1/25/2016	0.482	4.56	17.6	297	0.0812(J)	6.4	99.9
	4/12/2016	0.668	4.52	18.3	324	0.129	4.9	166
	7/12/2016	0.65(B)	3.93	13.2	343(B)	0.0519(J)	5.2	121
	10/5/2016	0.591	4.2	12.2	328(B)	0.041(J)	4.4	119
	1/24/2017	0.976	5.02	16	390(B)	0.225	4.8	141
	3/13/2017	1.01	5.15	12.9	375	0.146	4.8	139
	5/16/2017	0.879	3.89	12.1	333	0.156	4.5	140
	7/18/2017	0.88(B)	3.5(B)	12	342	0.119	4.2	174
	8/30/2017	0.92	4.5	9.16	333	<0.1	4.4	146
	3/27/2018	1.13	4.9	11.7	382	0.245	5	170
	8/15/2018	0.794	4.48	6.45	311	0.0304(J)	4	127
	3/6/2019	1.18	45.3	11.9	500	0.275	6.2	162
	8/27/2019	1.2	4.09	9.51	372	0.165	4.9	187
	3/27/2020	1.3	24.2	7.85	412	0.204	5.62	162
	12/2/2020	1.7	9.5	8.47	461	0.312	5.14	229
	8/19/2021	1.83	16.1	8.86	510	0.293	4.32	238
	11/30/2021	1.47	6.16	4.64(B)	337	<0.064	4.55	152
	06/13/2022	2.03	16.7	8.57	466	0.255	5.49	244
	12/06/2022	2.03	5.93	6.57	375	0.167	4.11	194
	06/07/2023	2.24	5.85	5.78	441	0.228	4.16	233
	11/15/2023	1.69	6.03	4.01	355	0.444	4.80	150
	05/22/2024	2.41	8.88	5.5	475	0.294	4.55	225
	11/18/2024	1.32	5.23	2.88	313	<0.150	4.55	149
	04/22/2025	2.47	10.5	5.91	483	0.228	4.17	241
	09/15/2025	2.15	6.08	3.70	368	<0.150	4.86	156
MW-111S	1/25/2016	3.43	26.4	6.72	436	0.15	6	219
	4/12/2016	3.54	29.5	6.72	435	0.189	4.8	299
	7/12/2016	3.52	27.3	6.4	474(B)	0.151	4.1	230
	10/3/2016	3.74	25.7	6.36	435(B)	0.158	3.9	247
	1/24/2017	4.04	29.3	4.71	458(B)	0.218	4	282

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J: analyte was detected below the RDL; value is an estimate.

O: value is a statistical outlier.

R: value was rejected due to suspected error; not used in statistics.

Entergy White Bluff Landfill CCR Database

	3/13/2017	3.81	30.6	4.78	485	0.175	4	238
	5/16/2017	3.64	29.7	5.03	466	0.203	4.1	241
	7/19/2017	3.72	30.7(B)	5.23	470	0.185	4	306
	8/30/2017	3.91	30.2	4.76	496	0.191	4.1	243
	3/27/2018	4.11	37.8	5.04	533	0.254	4.1	317
	8/14/2018	4.03	41	5.38	567	0.288	3.6	326
	3/7/2019	3.64	36.3	4.86	542	0.278	5.2	305
	8/29/2019	4.38	51.1	6.15	697	0.42	4	432
	3/25/2020	4.25	59	5.97	735	0.33	4.42	442
	12/2/2020	4.92	72.5	6.56	915	0.519	3.87	614
	8/19/2021	4.86	83.5	7.64	1030	0.604	4.32	649
	11/30/2021	5.82	110	7.93	1240	0.782	3.76	841
	06/14/2022	5.39	115	10.3	1230	0.748	4.05	804
	12/06/2022	6.26	112	11.3	1270	1.2	3.71	879
	06/07/2023	5.98	118	11.5	1270	0.85	3.98	854
	11/16/2023	6.67	117	12.1	1370	0.869	3.86	827
	05/20/2024	6.45	108	12.3	1270	0.957	4.1	756
	11/22/2024	7.1	101	<100	1280	<15.0	4.1	768
	04/22/2025	6.95	101	11.1	1200	<1.50	4.01	775
	09/17/2025	6.50	80.3	11.6	1150	<0.750	3.5	721
MW-112D	3/14/2017	0.203	9.86	2.68	108	0.136	7.2	9.04
	4/4/2017	0.158(J)	10.2	3.5	102	0.127	6.4	2.16(J)
	4/25/2017	0.177(J)	10.7	3.57	121	0.1	7	2.85(J)
	5/16/2017	0.161(J)	11	3.46	127	0.12	7.4	1.7(J)
	6/6/2017	0.189(J)	12.3	3.86	145	0.118	6.9	1.06(J)
	6/27/2017	0.185(J)	13.7	3.2	148(B)	0.097(J)	7.5	1.23(J)
	7/18/2017	0.19(BJ)	13.8(B)	3.69	137	0.101	7	1.09(J)
	8/8/2017	0.199(J)	16	3.85	147	0.0507(J)	6.5	0.757(J)
	8/29/2017	0.201	17	3.47	154	0.127	7	0.93(J)
	3/26/2018	0.239	24.5	4.12	190	0.113	7.1	0.675(J)
	5/30/2018	0.241(B)	24.4	n/a	202	n/a	7.5	n/a
	8/13/2018	0.275	29.2	4.27	203	0.0747(J)	6.8	<5
	3/6/2019	0.27	28.8	4.48	234	0.0936(J)	7.2	<5
	8/28/2019	0.248	30.8	4.63	227	0.086(J)	7.4	0.379(J)
	3/25/2020	n/a	n/a	n/a	n/a	n/a	7.38	n/a
	4/7/2020	0.246	32	4.85	243	0.079(J)	n/a	<0.594
	12/15/2020	0.261	35.4	4.39	226	0.0836(J)	6.83	4.57(J)
	8/19/2021	0.278	34.4	4.69(B)	292	0.117(J)	7.48	2.3(J)
	12/1/2021	0.27	35.4	5.14	275	<0.064	8.27	<0.594
	06/15/2022	0.278	37	6.49	270	<0.150	8.15	<5.00
	12/07/2022	0.278	39.3	5.8	302	<0.150	7.15	<5.00

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Entergy White Bluff Landfill CCR Database

	06/06/2023	0.287	39.5	6.05	308	<0.150	5.65	<5.00
	11/17/2023	0.286	41.1	<10.0	295	<1.50	7.57	<50.0
	05/23/2024	0.288	42.4	6.19	327	<0.150	7.48	<5.00
	11/22/2024	0.294	41.4	7.22	317	<0.150	7.49	5.08
	04/22/2025	0.291	43.2	6.43	326	<0.150	7.28	<5.00
	09/19/2025	0.277	42.8	6.90	331	<0.150	7.74	5.83
MW-113D	3/14/2017	0.504	197	13.2	1150	<0.1	6.8	610
	4/4/2017	0.461	178	13.2	1080	0.0527(J)	6.9	587
	4/25/2017	0.481	182	13.4	1140	<0.1	7	562
	5/16/2017	0.448	161	13.2	1100	0.0863(J)	6.8	608
	6/6/2017	0.463	148	13.5	1130	0.0512(J)	6.8	615
	6/27/2017	0.497	191	13.4	1130	0.0676(J)	6.7	694
	7/18/2017	0.441(B)	100(B)	13.7	1060	0.0507(J)	6.9	607
	8/8/2017	0.482	183	13.3	974	<0.1	6.8	589
	8/29/2017	0.494	179	13.3	1180	<0.1	6.9	601
	3/26/2018	0.534	180	13.4	1050	<0.1	6.6	628
	8/14/2018	0.471	172	13.3	1060	0.0226(J)	6.5	607
	3/6/2019	0.54	179	13.8	1160	0.0392(J)	6.8	659
	8/27/2019	0.469	194	14.6	1210	0.0281(J)	6.8	706
	3/25/2020	n/a	n/a	n/a	n/a	n/a	6.61	n/a
	4/7/2020	0.483	215	14.7	2450	<0.064	n/a	655
	12/11/2020	0.488	212	13.7	1250	0.0738(J)	6.77	680
	3/2/2021	n/a	n/a	14.1	n/a	n/a	n/a	n/a
	6/19/2021	0.488	200	13.8	1230	0.0734(J)	n/a	672
	11/30/2021	0.482	197	14.2	1210	<0.064	6.85	637
	06/14/2022	0.484	198	14.4	1170	<0.150	6.97	609
	12/06/2022	0.479	200	14.1	1190	<0.150	6.76	528
	06/08/2023	0.503	184	14.1	1160	<0.150	6.47	653
	11/15/2023	0.492	189	14.7	1150	<0.150	7.30	590
	05/23/2024	0.491	207	13.6	1090	<0.150	7.05	608
	11/21/2024	0.483	202	11.9	1170	<1.50	7.05	640
	04/30/2025	0.503	198	15.6	1200	0.323	6.85	736
	09/19/2025	0.493	191	13.3	1200	<0.750	6.11	583
MW-114D	3/14/2017	0.337	43.5	6.89	300	<0.1	7.5	32.8
	4/4/2017	0.284	42.5	7.53	273	0.0761(J)	7.5	29.4
	4/26/2017	0.272	39.7	7.91	277	0.0597(J)	7.3	26.3
	5/16/2017	0.264	42.5	7.73	280	0.0923(J)	7.6	21.7
	6/6/2017	0.26	43.3	8.15	270	0.0493(J)	7.2	22.2
	6/27/2017	0.263	40.5	8.97	282(B)	0.061(J)	7.6	23
	7/18/2017	0.276(B)	45.3(B)	8.16	268	0.0836(J)	7.3	14.3

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Entergy White Bluff Landfill CCR Database

	8/8/2017	0.275	44.6	7.93	284	0.094(J)	7.2	15.8
	8/29/2017	0.286	40.9	7.48	272	<0.1	7.4	21.8
	3/26/2018	0.264	42	7.76	278	0.1	7.4	12.8
	8/14/2018	0.231	46.6	7.79	282	0.0572(J)	6.5	9.17
	3/6/2019	0.274	44.8	8.02	282	0.0762(J)	7.5	11.8
	8/28/2019	0.248	50.1	7.71	278	0.109	7.5	8.81
	3/25/2020	n/a	n/a	n/a	n/a	n/a	7.43	n/a
	4/6/2020	0.256	48.4	8.32	278	0.0858(J)	n/a	17.4
	12/4/2020	0.283	56.8	7.87	361	<0.15*	7.97	36.2
	6/19/2021	0.284	51.7	7.49	353	0.0931(J)	7.45	37
	12/2/2021	0.276	53.4	7.71	331	<0.064	8	28.9
	06/15/2022	0.28	53.1	8.95	319	<0.150	8.7	29.7
	12/05/2022	0.277	52.1	7.46	331	<0.150	7.81	25.9
	06/08/2023	0.275	51.7	7.42	326	<0.150	7.11	29.6
	11/15/2023	0.278	50.4	7.25	315	<0.150	7.82	25.1
	05/23/2024	0.275	54.5	8.23	332	<0.150	7.43	35.5
	11/21/2024	0.27	54.5	7.17	321	<0.150	7.43	27.7
	04/22/2025	0.281	54.2	7.49	327	<0.150	7.36	27.1
	09/16/2025	0.258	51.4	7.54	322	<0.150	7.40	32.5
MW-115D	3/14/2017	0.337	38.1	5.86	339	0.154	7.4	71.8
	4/4/2017	0.303	36.2	5.84	365	0.18	7.5	57.6
	4/25/2017	0.304	35	6.08	372	0.152	7.6	45.5
	5/16/2017	0.305	35.9	5.5	362	0.194	7.6	30.7
	6/6/2017	0.318	34.7	6.1	363	0.139	7.5	24.8
	6/27/2017	0.311	35.6	5.37	377(B)	0.187	7.7	10.7
	7/18/2017	0.318(B)	39.5(B)	5.87	362	0.17	7.4	8.28
	8/8/2017	0.325	39.8	5.86	389	0.179	7.5	7.92
	8/29/2017	0.344	39	5.57	377	0.158	7.2	6.25
	3/27/2018	0.346	46.9	5.45	374	0.172	7.3	1.31(J)
	8/14/2018	0.272	45.4	5.15	368	0.113	6.4	1.76(J)
	3/5/2019	0.35	46.1	5.15	371	0.126	7.2	2.12(J)
	8/28/2019	0.294	48.2	4.84	362	0.144	7.4	2.98(J)
	3/25/2020	0.341	48.3	5.03	361	0.122	7.37	3.08(J)
	12/15/2020	0.334	47.5	4.56	355	0.115(J)	6.88	3.43(J)
	6/19/2021	0.336	44.3	4.65	367	0.131(J)	7.45	2.75(J)
	12/1/2021	0.338	45.6	4.53	343	<0.064	8.26	<0.594
	06/14/2022	0.336	43.6	4.95	342	<0.150	8.62	<5.00
	12/05/2022	0.327	43.9	4.44	351	<0.150	7.78	5.25
	06/08/2023	0.346	43.5	4.63	342	<0.150	7.26	<5.00
	11/16/2023	0.335	40.8	4.25	325	<0.150	7.86	<5.00
	05/23/2024	0.339	42.7	5	352	<0.150	7.57	5.44

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Entergy White Bluff Landfill CCR Database

	11/21/2024	0.329	44.8	4.2	333	<0.150	7.57	<5.00
	04/22/2025	0.343	43.7	4.53	334	0.161	7.12	<5.00
	09/17/2025	0.324	43.0	4.60	333	<0.150	7.44	<5.00
MW-118D	3/13/2017	0.343	68.4	8.39	415	<0.1	7	82.2
	4/3/2017	0.316	76.8	9.42	433	0.0541(J)	7.2	106
	4/25/2017	0.328	77.1	9.43	459	<0.1	7	111
	5/16/2017	0.335	73.1	9.78	463	0.0404(J)	7.2	117
	6/6/2017	0.333	75.3	9.4	455	0.0488(J)	7.4	122
	6/27/2017	0.323	69.3	8.92	423(B)	<0.1	6.7	44.9
	7/18/2017	0.0391(BJ)	0.0571(BJ)	9.36	431	0.0445(J)	7	110
	8/8/2017	0.344	74.8	9.59	484	0.0689(J)	6.9	118
	8/29/2017	0.355	79	9.32	439	0.0162(J)	7.3	107
	3/26/2018	0.327	79.3	9.11	456	<0.1	7.2	126
	8/14/2018	0.337	74.1	9.11	459	0.0296(J)	6.8	109
	3/6/2019	0.335	76.5	9.33	454	0.0434(J)	7	112
	8/28/2019	0.274	78.6	9.01	438	0.0853(J)	7.1	118
	4/6/2020	n/a	n/a	n/a	n/a	n/a	6.75	n/a
	4/8/2020	0.301	80.6	9.48	448	<0.064	n/a	129
	12/9/2020	0.285	83.2	9.61	572	0.128(J)	6.77	166
	6/19/2021	0.218	76.4	7.62	597	0.305	6.96	157
	12/2/2021	0.292	103	8.41	642	0.156	7.38	222
	06/15/2022	0.285	91.2	9.45	585	<0.150	7.77	168
	12/05/2022	0.277	88.6	8.27	557	<0.150	7.23	162
	06/06/2023	0.276	90.6	8.27	566	<0.150	5.4	162
	11/17/2023	0.291	91	8.23	504	<0.150	7.18	151
	05/23/2024	0.274	89	9.1	535	<0.150	6.75	156
	11/21/2024	0.274	86	8.17	502	<0.150	6.95	141
	04/22/2025	0.289	83.2	<10.0	502	<1.50	7.08	133
	09/16/2025	0.272	80.2	8.80	490	<0.150	6.69	113

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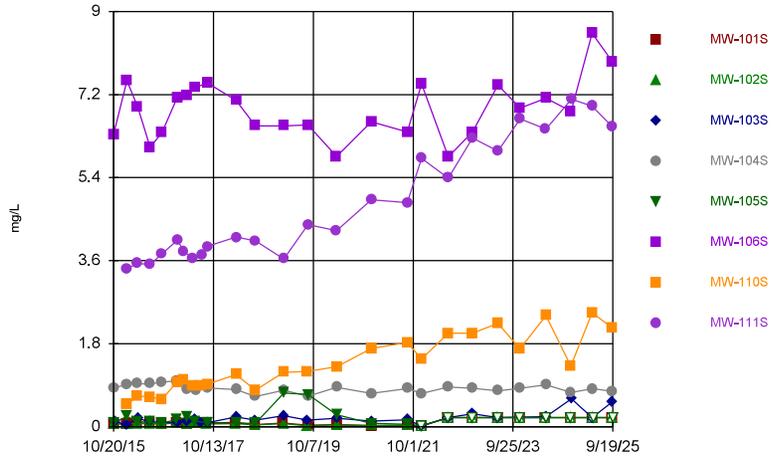
O: value is a statistical outlier.

R: value was rejected due to suspected error; not used in statistics.

APPENDIX 2

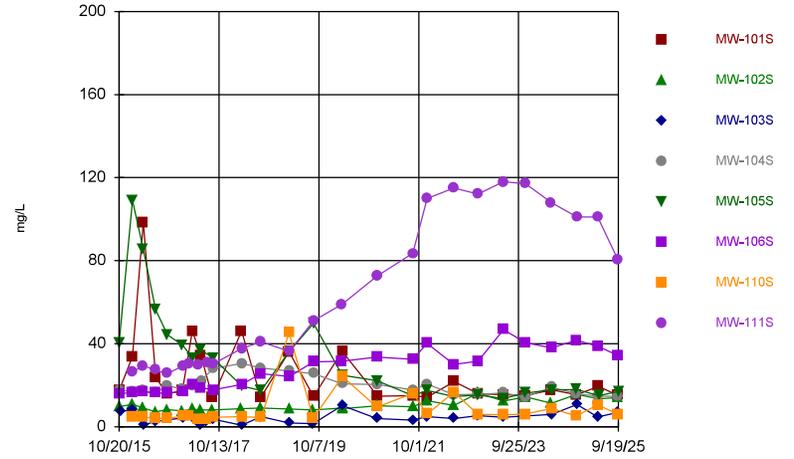
Time Series

Time Series



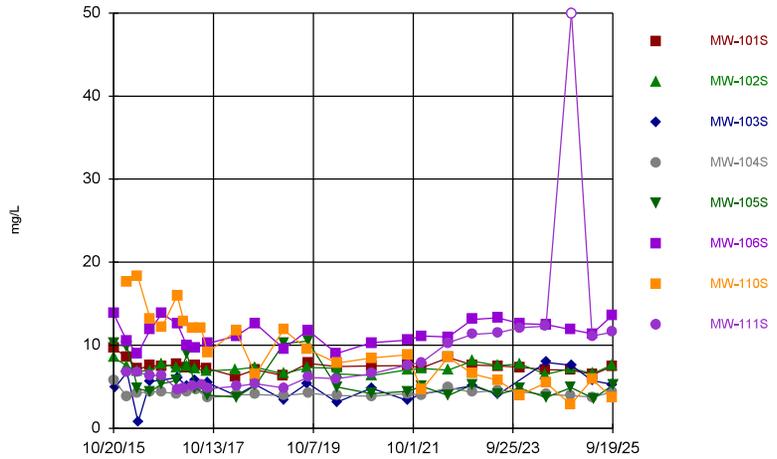
Constituent: Boron Analysis Run 11/20/2025 10:56 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Time Series



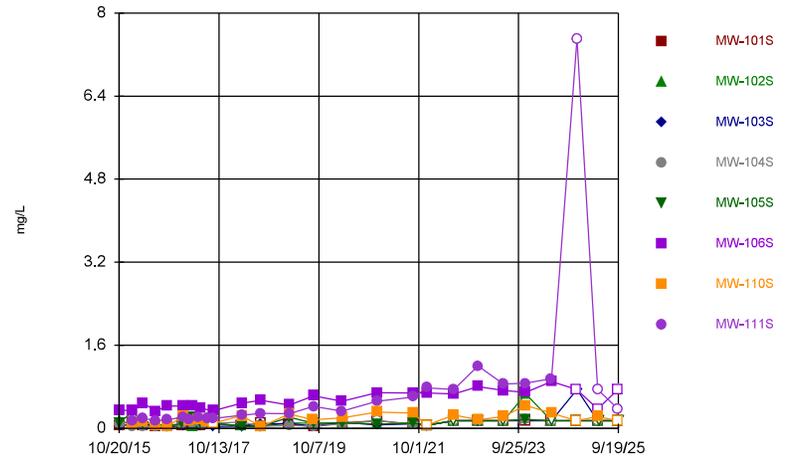
Constituent: Calcium Analysis Run 11/20/2025 10:56 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Time Series



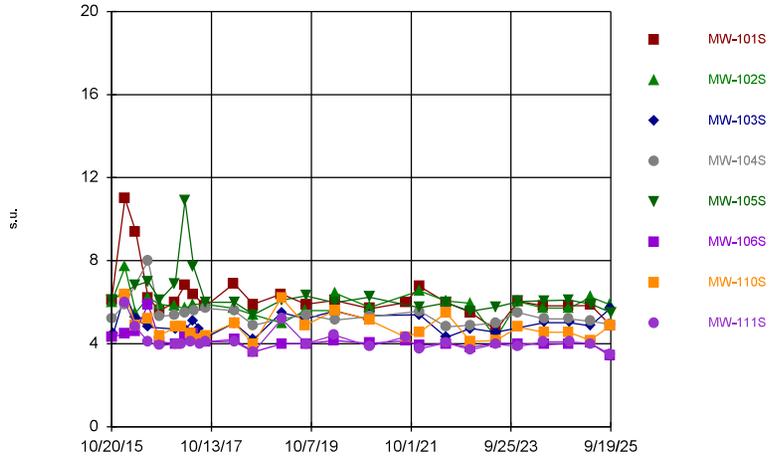
Constituent: Chloride Analysis Run 11/20/2025 10:56 AM
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Time Series



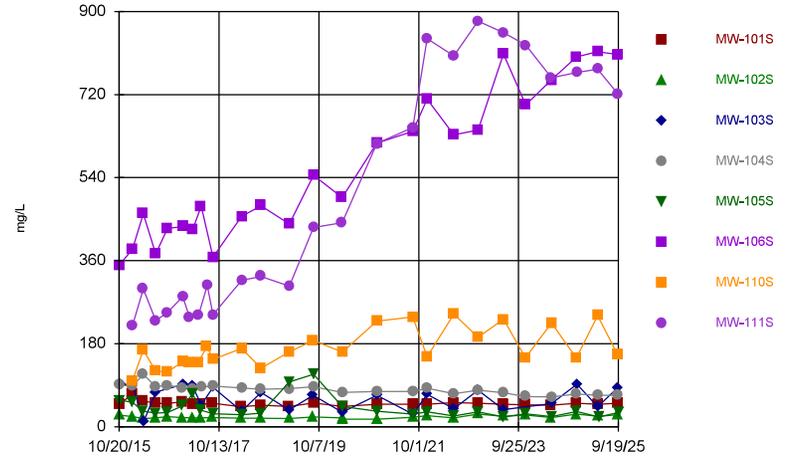
Constituent: Fluoride Analysis Run 11/20/2025 10:56 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Time Series



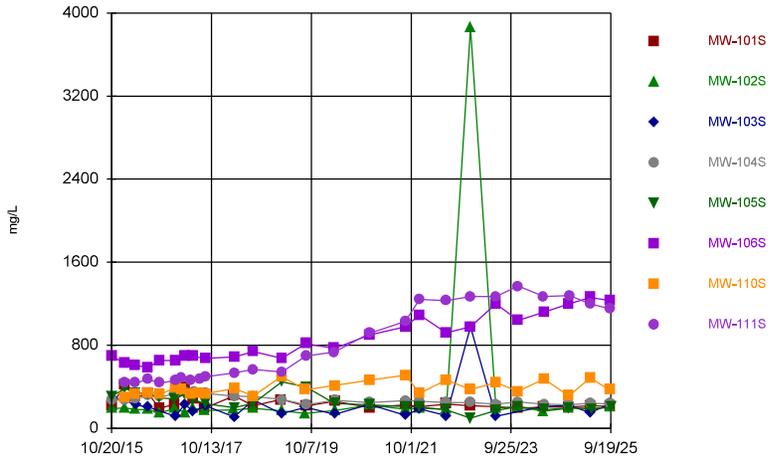
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White Bluff Plant Client: TRC Data: WBLF CCR Database

Time Series



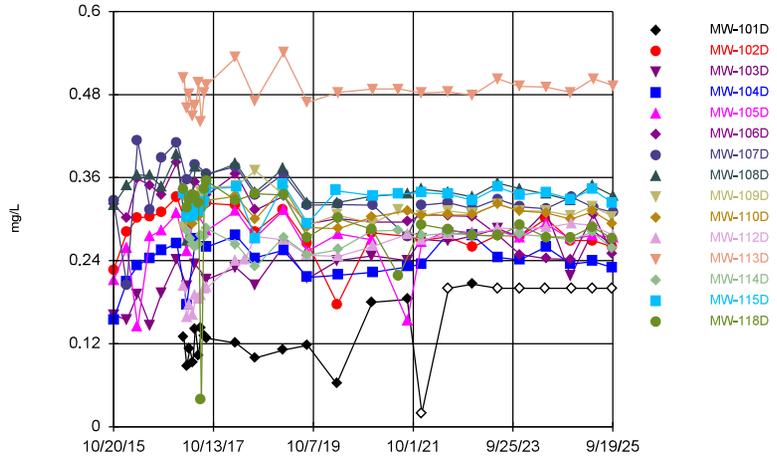
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Time Series



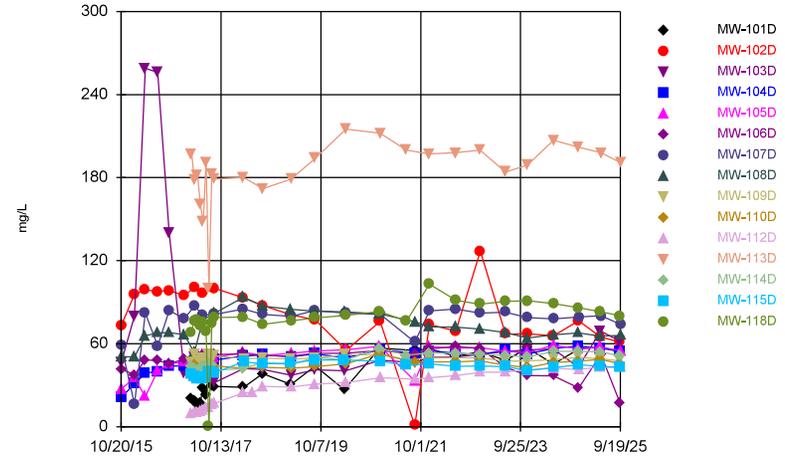
Constituent: TDS Analysis Run 11/20/2025 10:56 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Time Series



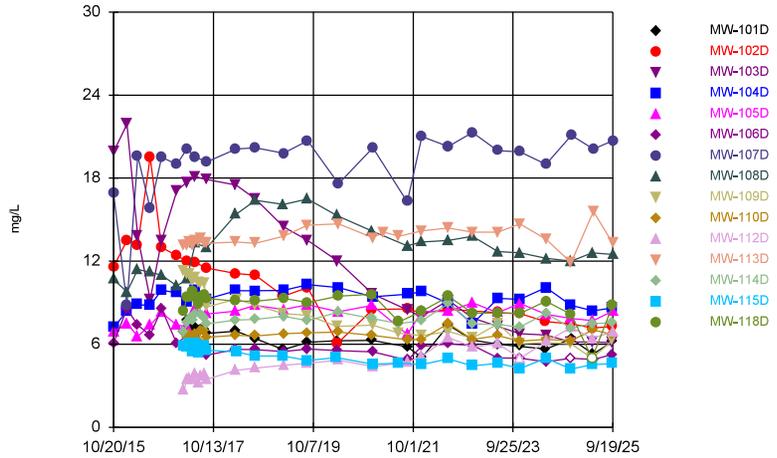
Constituent: Boron Analysis Run 11/20/2025 10:55 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Time Series



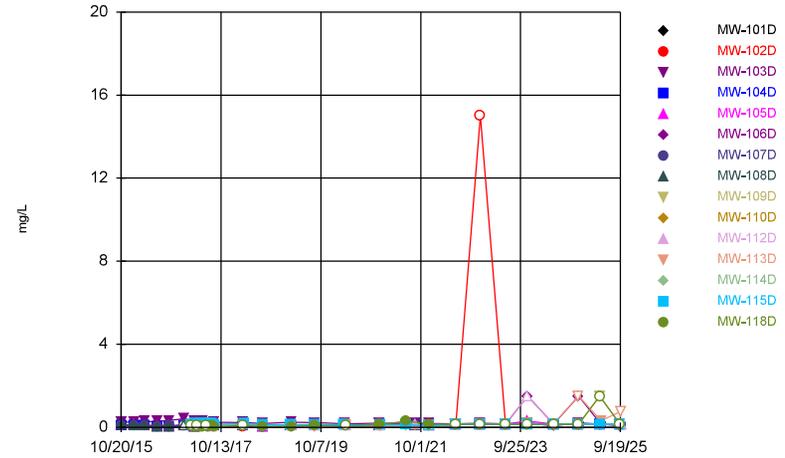
Constituent: Calcium Analysis Run 11/20/2025 10:55 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Time Series



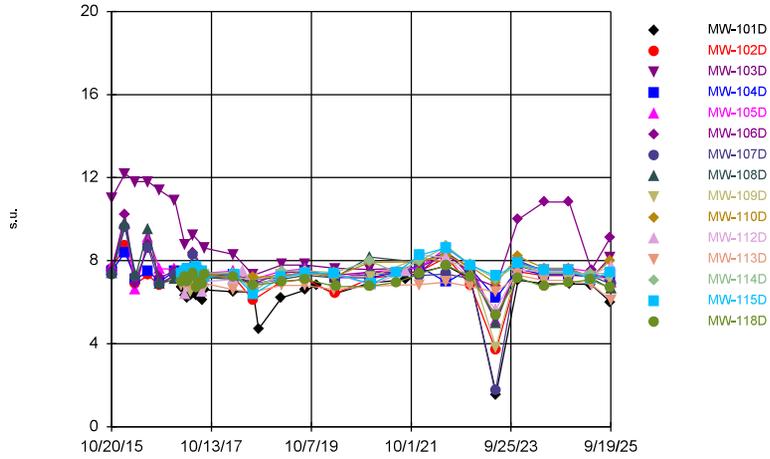
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White Bluff Plant Client: TRC Data: WBLF CCR Database

Time Series



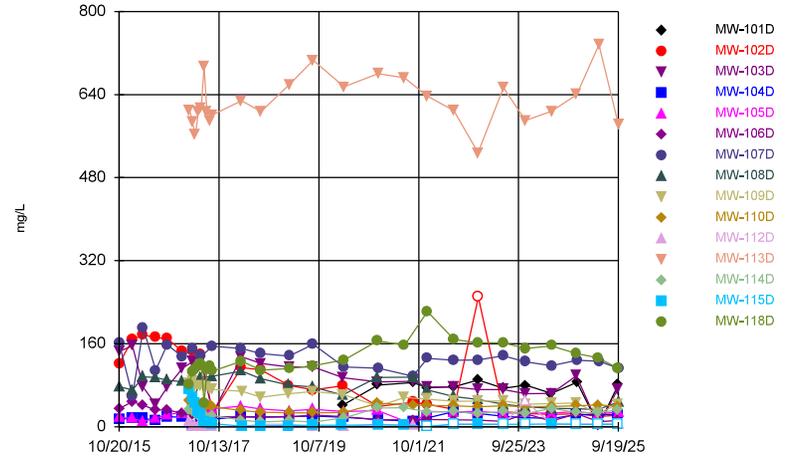
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White Bluff Plant Client: TRC Data: WBLF CCR Database

Time Series



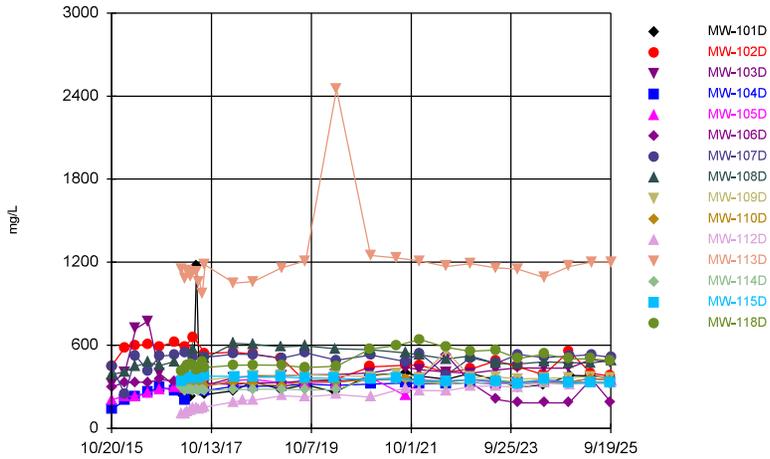
Constituent: pH Analysis Run 11/20/2025 10:55 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Time Series



Constituent: Sulfate Analysis Run 11/20/2025 10:55 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Time Series



Constituent: TDS Analysis Run 11/20/2025 10:55 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

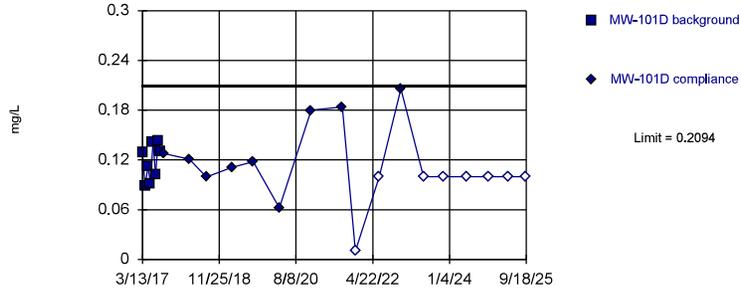
APPENDIX 3

Statistic Analysis - Prediction Limit Analysis

Within Limit

Prediction Limit

Intrawell Parametric



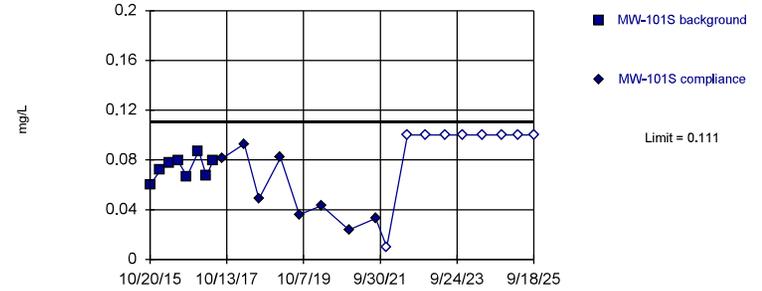
Background Data Summary: Mean=0.1174, Std. Dev.=0.0218, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9031, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 11/20/2025 10:57 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit

Intrawell Parametric



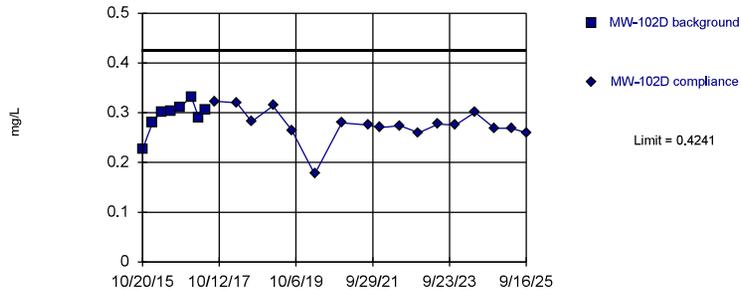
Background Data Summary: Mean=0.07369, Std. Dev.=0.008842, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9597, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 11/20/2025 10:57 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit

Intrawell Parametric



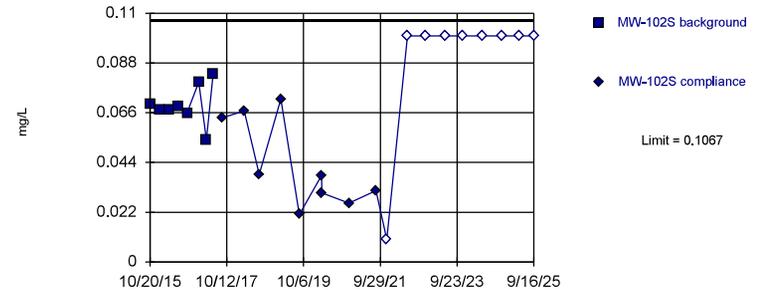
Background Data Summary: Mean=0.2939, Std. Dev.=0.03085, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.857, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 11/20/2025 10:57 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit

Intrawell Parametric

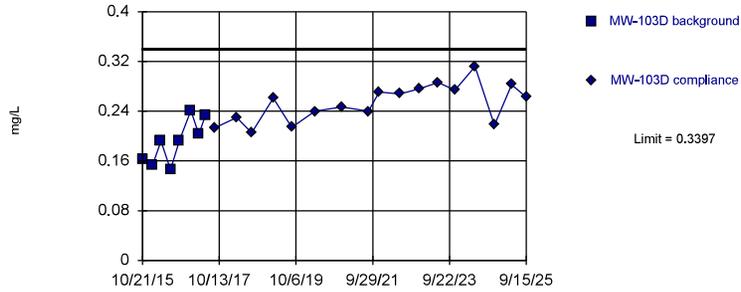


Background Data Summary: Mean=0.06946, Std. Dev.=0.008831, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9204, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 11/20/2025 10:57 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

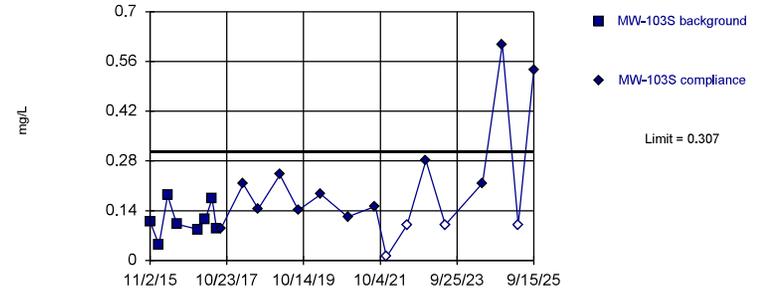


Background Data Summary: Mean=0.1906, Std. Dev.=0.03532, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9278, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 11/20/2025 10:57 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Exceeds Limit

Prediction Limit Intrawell Parametric

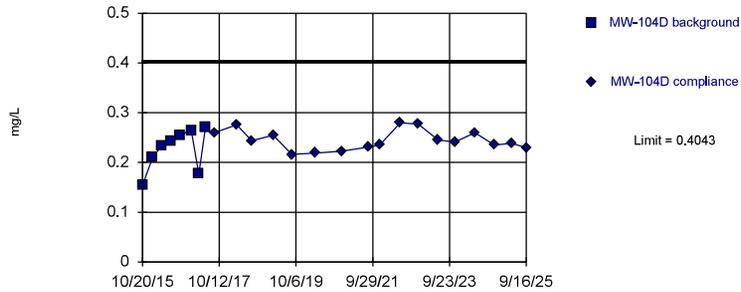


Background Data Summary: Mean=0.1129, Std. Dev.=0.04598, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9188, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 11/20/2025 10:57 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

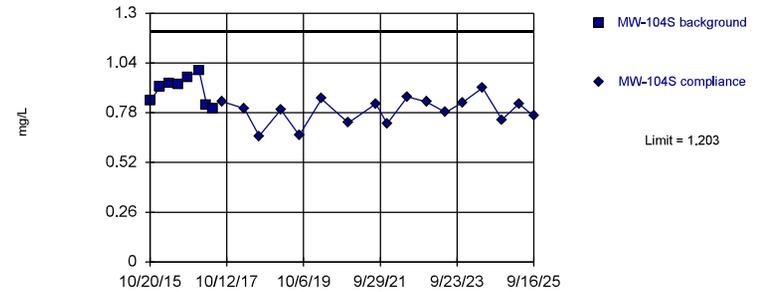


Background Data Summary: Mean=0.2263, Std. Dev.=0.04219, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9106, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 11/20/2025 10:57 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

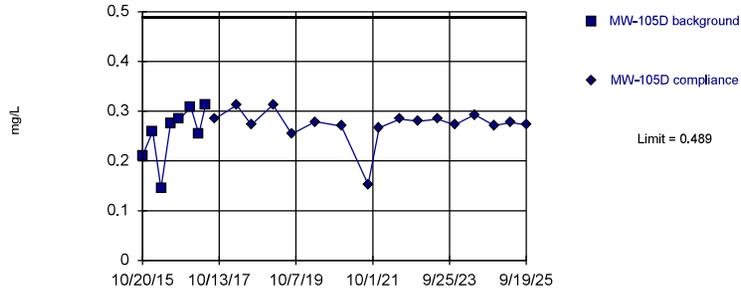


Background Data Summary: Mean=0.9018, Std. Dev.=0.07138, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9322, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 11/20/2025 10:57 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

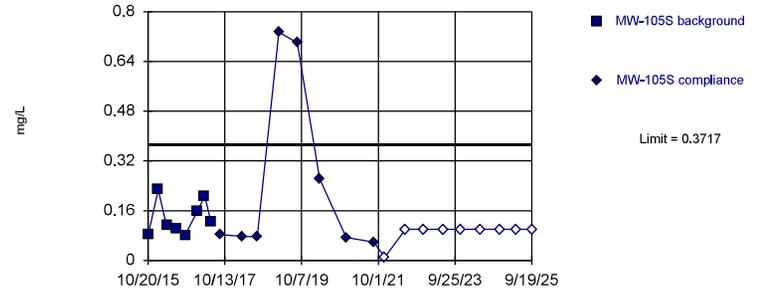


Background Data Summary: Mean=0.256, Std. Dev.=0.05522, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8908, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 11/20/2025 10:57 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

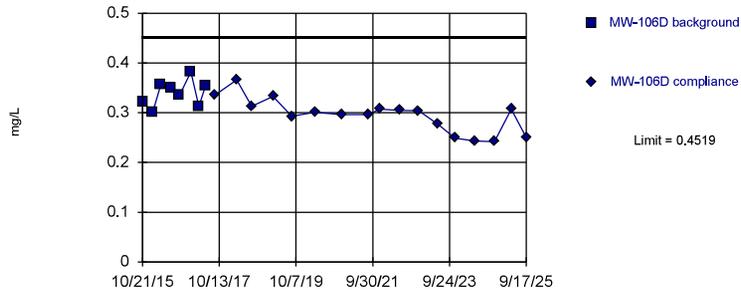


Background Data Summary: Mean=0.1365, Std. Dev.=0.05572, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8816, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 11/20/2025 10:57 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

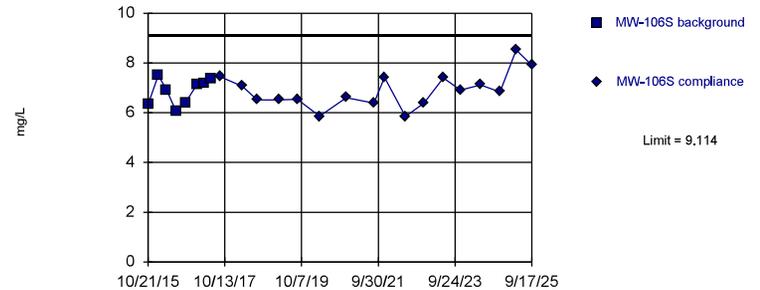


Background Data Summary: Mean=0.3391, Std. Dev.=0.02671, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9753, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 11/20/2025 10:57 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

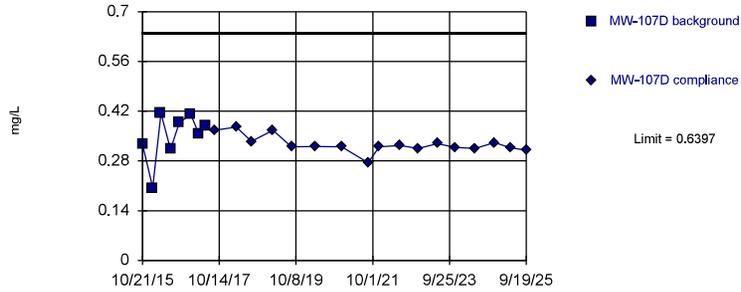


Background Data Summary: Mean=6.863, Std. Dev.=0.5335, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9108, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 11/20/2025 10:57 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

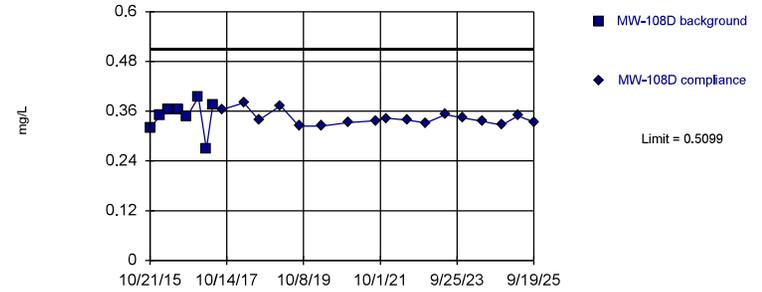


Background Data Summary: Mean=0.3491, Std. Dev.=0.06885, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8686, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 11/20/2025 10:57 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

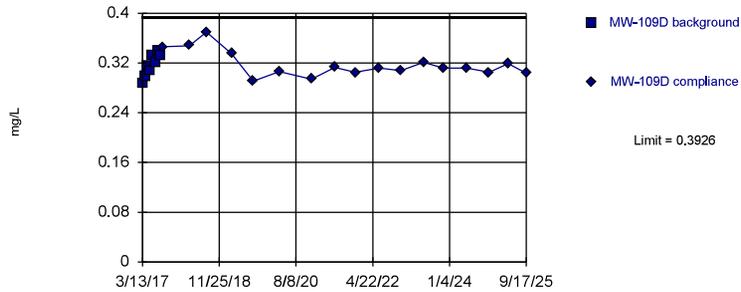


Background Data Summary: Mean=0.3476, Std. Dev.=0.03846, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9052, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 11/20/2025 10:57 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

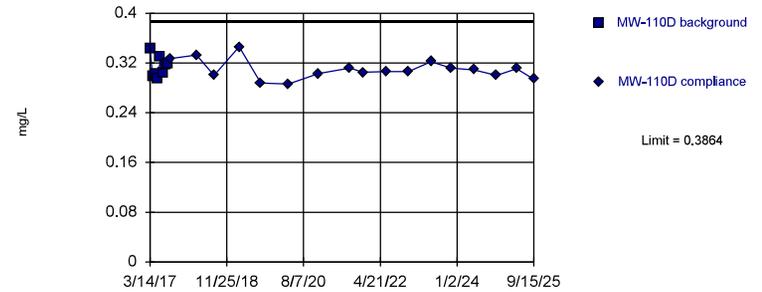


Background Data Summary: Mean=0.3168, Std. Dev.=0.01798, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9596, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 11/20/2025 10:57 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

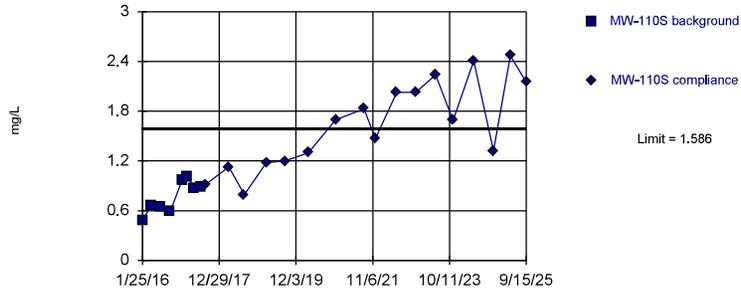


Background Data Summary: Mean=0.3135, Std. Dev.=0.01727, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9305, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 11/20/2025 10:57 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Exceeds Limit

Prediction Limit Intrawell Parametric

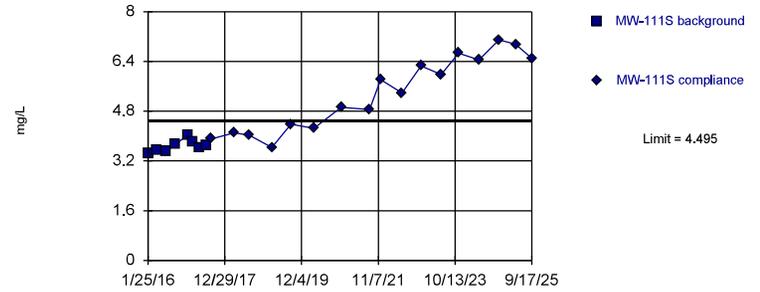


Background Data Summary: Mean=0.767, Std. Dev.=0.1941, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9226, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 11/20/2025 10:57 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Exceeds Limit

Prediction Limit Intrawell Parametric

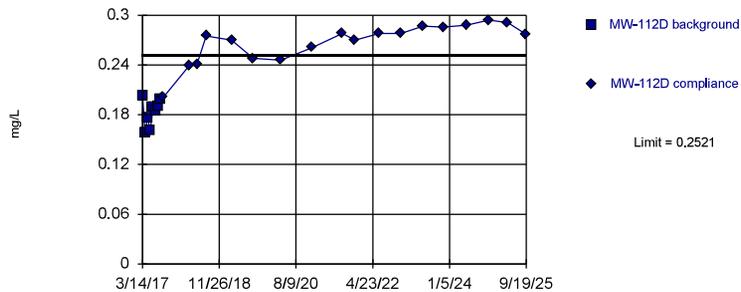


Background Data Summary: Mean=3.68, Std. Dev.=0.1931, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9589, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 11/20/2025 10:57 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Exceeds Limit

Prediction Limit Intrawell Parametric

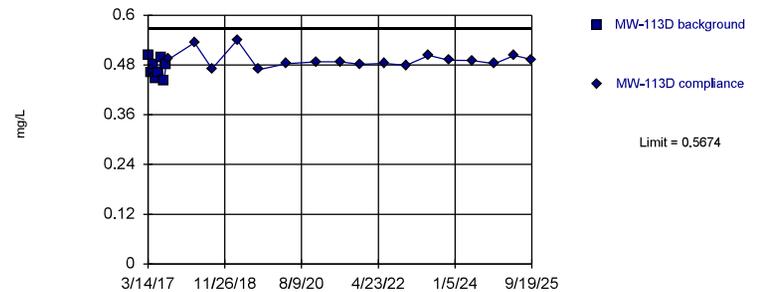


Background Data Summary: Mean=0.1828, Std. Dev.=0.01643, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9224, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 11/20/2025 10:57 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

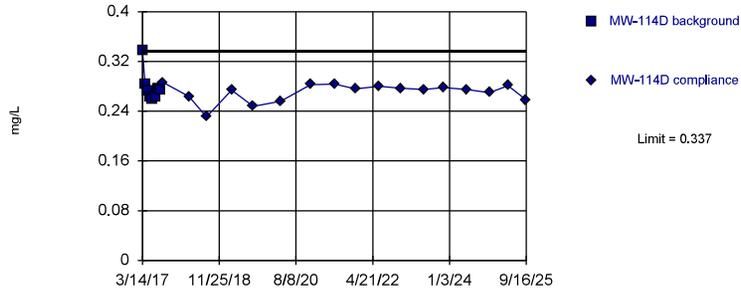


Background Data Summary: Mean=0.4721, Std. Dev.=0.02258, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9524, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 11/20/2025 10:57 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit
Intrawell Non-parametric

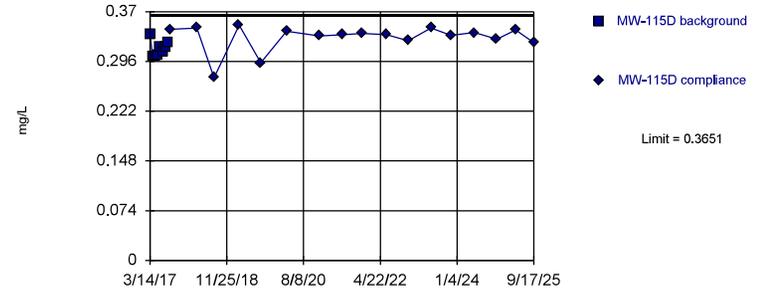


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 8 background values. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2). Seasonality was not detected with 95% confidence.

Constituent: Boron Analysis Run 11/20/2025 10:57 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit
Intrawell Parametric

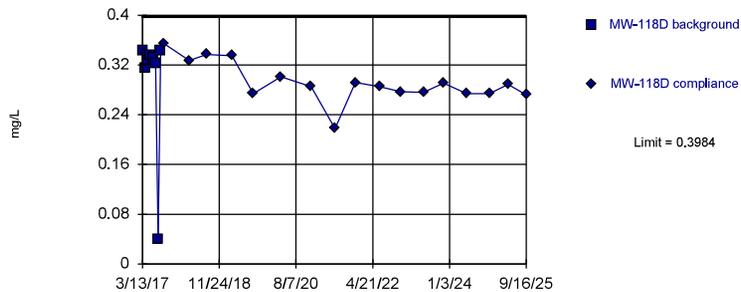


Background Data Summary: Mean=0.3151, Std. Dev.=0.01185, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9084, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 11/20/2025 10:57 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit
Intrawell Parametric

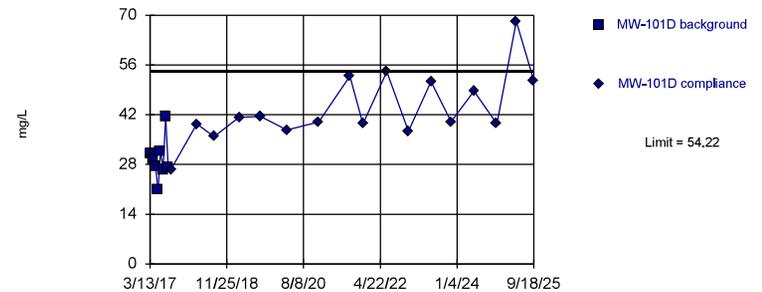


Background Data Summary (based on x⁵ transformation): Mean=0.003543, Std. Dev.=0.00154, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7631, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Boron Analysis Run 11/20/2025 10:57 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit
Intrawell Parametric

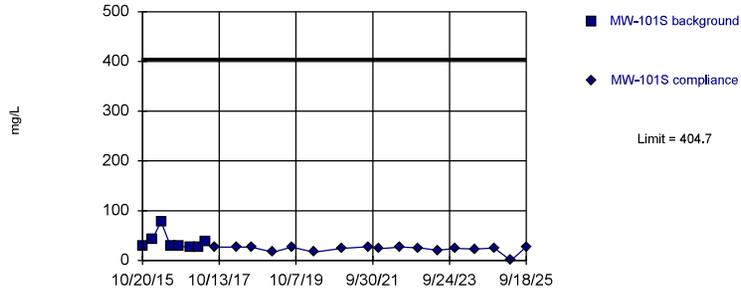


Background Data Summary: Mean=29.46, Std. Dev.=5.867, n=8. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9112, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Calcium Analysis Run 11/20/2025 10:57 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

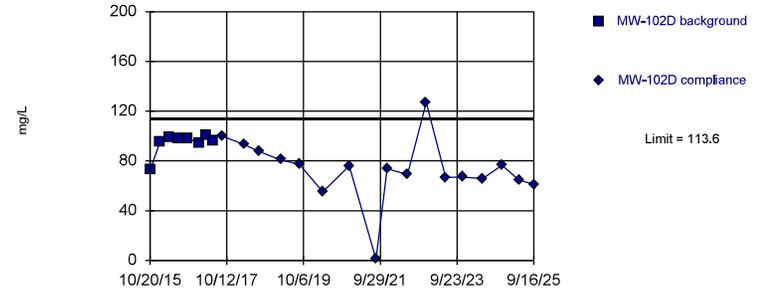


Background Data Summary (based on natural log transformation): Mean=3.391, Std. Dev.=0.6191, n=8. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7755, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Calcium Analysis Run 11/20/2025 10:57 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

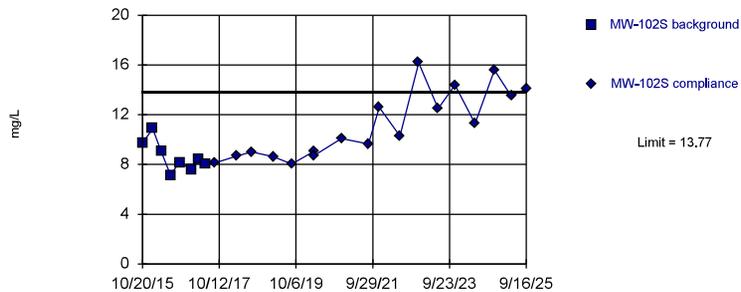


Background Data Summary (based on x*5 transformation): Mean=8.0e9, Std. Dev.=2.6e9, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7615, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Calcium Analysis Run 11/20/2025 10:57 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Exceeds Limit

Prediction Limit Intrawell Parametric

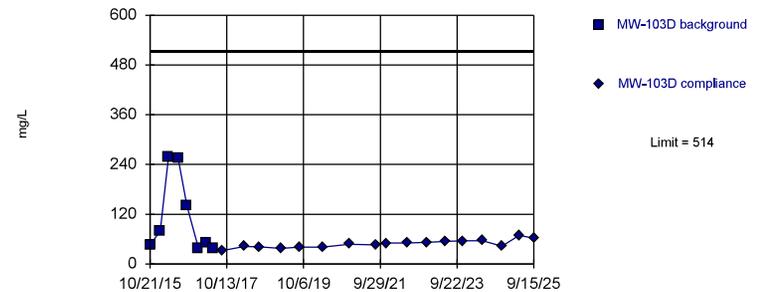


Background Data Summary: Mean=8.644, Std. Dev.=1.216, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9477, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Calcium Analysis Run 11/20/2025 10:57 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

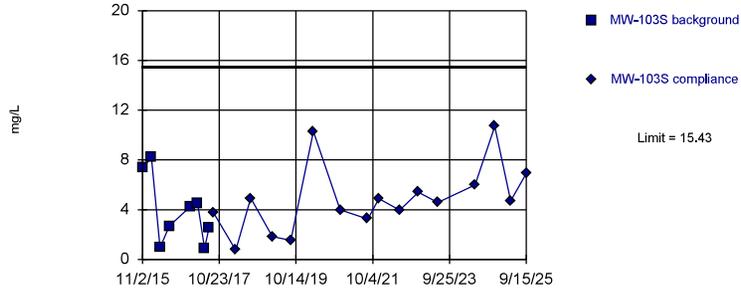


Background Data Summary: Mean=113.6, Std. Dev.=94.88, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7695, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Calcium Analysis Run 11/20/2025 10:57 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

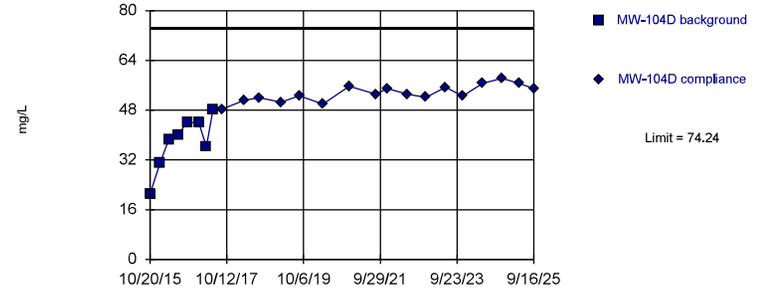


Background Data Summary: Mean=3.928, Std. Dev.=2.726, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9116, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Calcium Analysis Run 11/20/2025 10:57 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

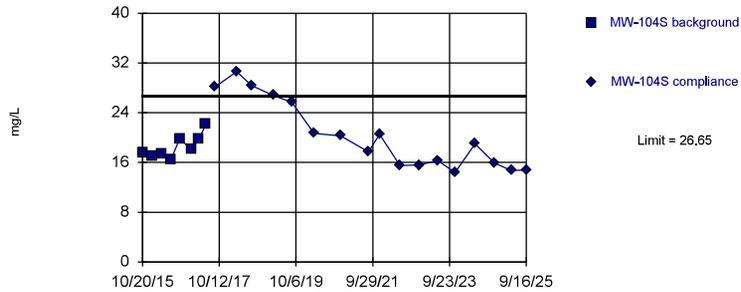


Background Data Summary: Mean=37.95, Std. Dev.=8.599, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9298, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Calcium Analysis Run 11/20/2025 10:58 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

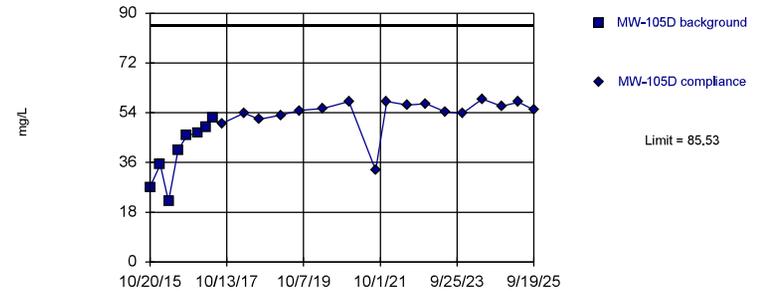


Background Data Summary: Mean=18.55, Std. Dev.=1.921, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9103, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Calcium Analysis Run 11/20/2025 10:58 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

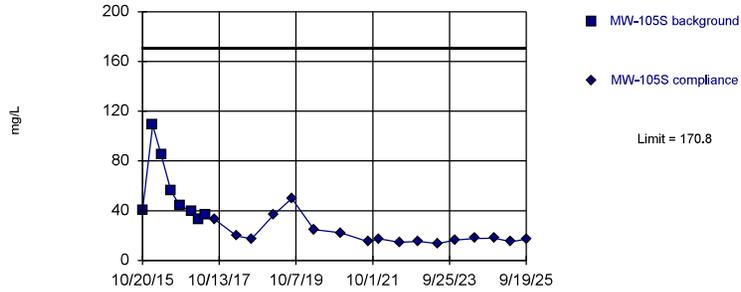


Background Data Summary: Mean=39.8, Std. Dev.=10.84, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9232, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Calcium Analysis Run 11/20/2025 10:58 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

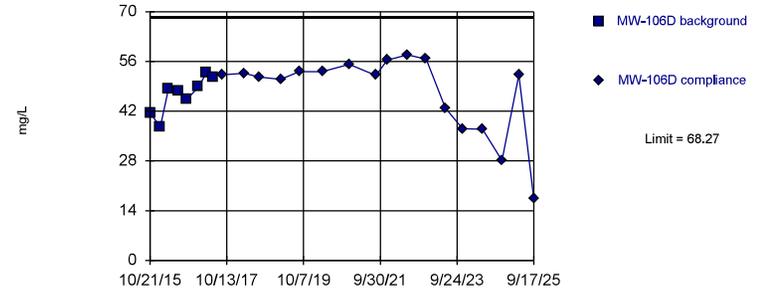


Background Data Summary: Mean=55.59, Std. Dev.=27.31, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.796, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Calcium Analysis Run 11/20/2025 10:58 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

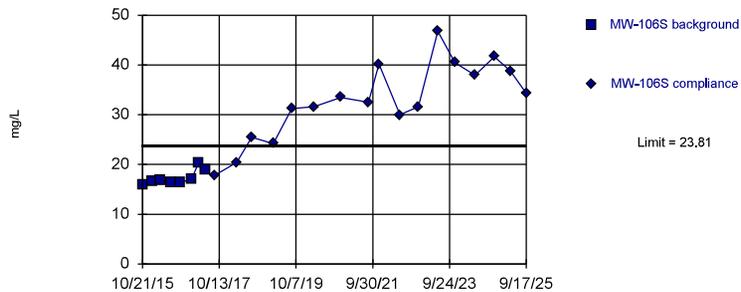


Background Data Summary: Mean=46.78, Std. Dev.=5.094, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.936, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Calcium Analysis Run 11/20/2025 10:58 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Exceeds Limit

Prediction Limit Intrawell Parametric

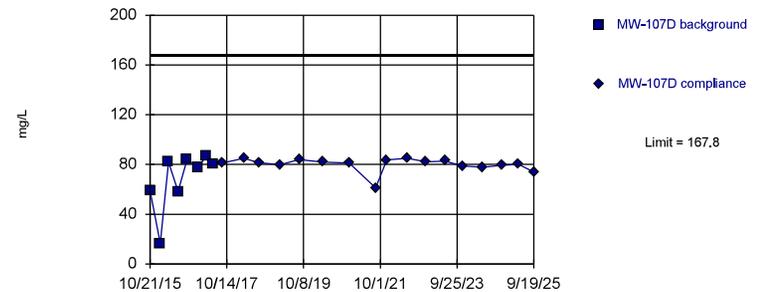


Background Data Summary: Mean=17.3, Std. Dev.=1.542, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7946, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Calcium Analysis Run 11/20/2025 10:58 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

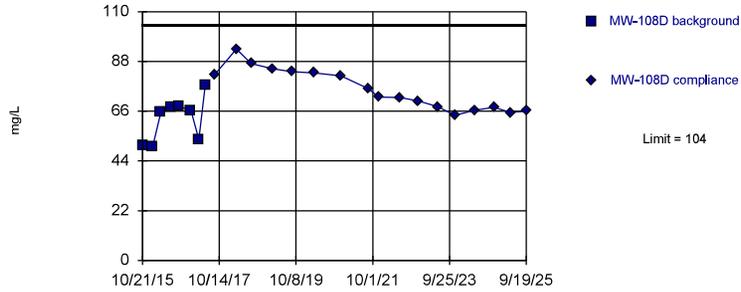


Background Data Summary: Mean=68.18, Std. Dev.=23.61, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7738, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Calcium Analysis Run 11/20/2025 10:58 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

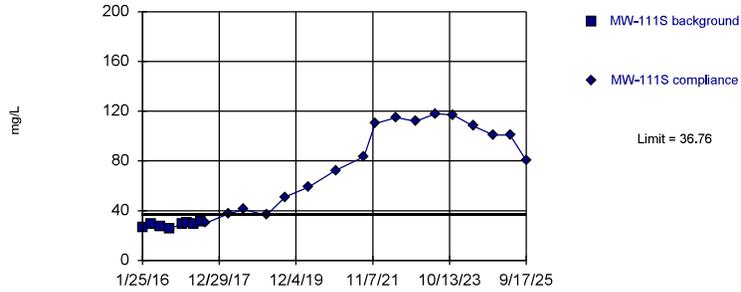
Within Limit

Prediction Limit Intrawell Parametric



Exceeds Limit

Prediction Limit Intrawell Parametric

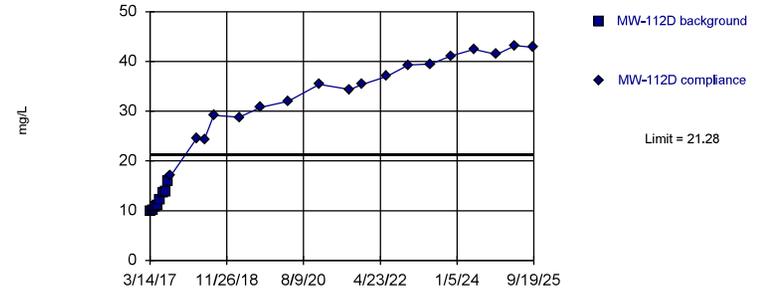


Background Data Summary: Mean=28.65, Std. Dev.=1.921, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8859, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Calcium Analysis Run 11/20/2025 10:58 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Exceeds Limit

Prediction Limit Intrawell Parametric

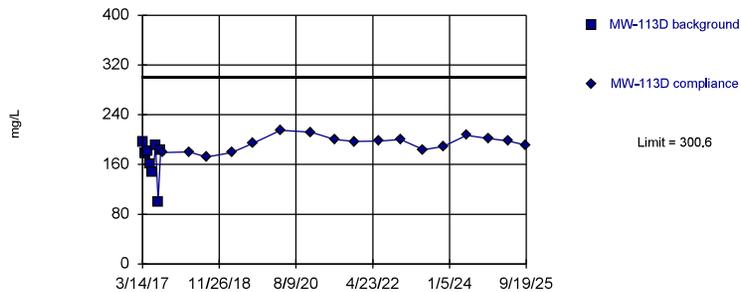


Background Data Summary: Mean=12.2, Std. Dev.=2.152, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9163, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Calcium Analysis Run 11/20/2025 10:58 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

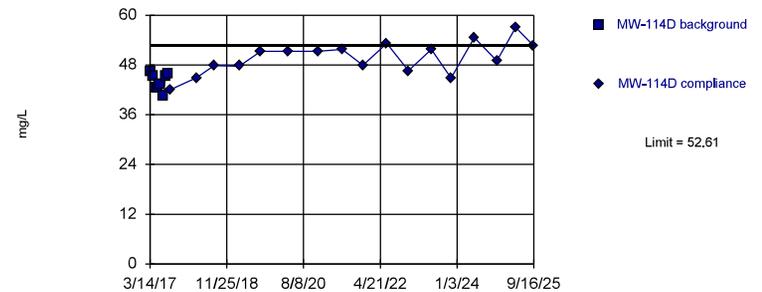


Background Data Summary: Mean=167.5, Std. Dev.=31.54, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8377, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Calcium Analysis Run 11/20/2025 10:58 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Exceeds Limit

Prediction Limit Intrawell Parametric

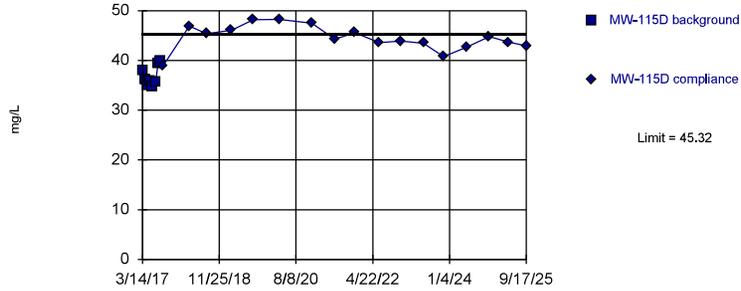


Background Data Summary: Mean=44.04, Std. Dev.=2.029, n=8. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9134, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Calcium Analysis Run 11/20/2025 10:58 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

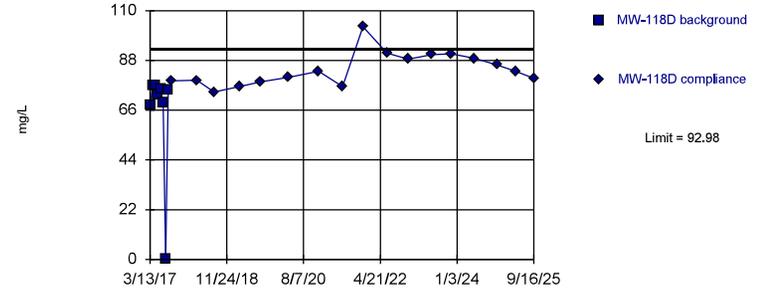


Background Data Summary: Mean=36.85, Std. Dev.=2.008, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8728, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Calcium Analysis Run 11/20/2025 10:58 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

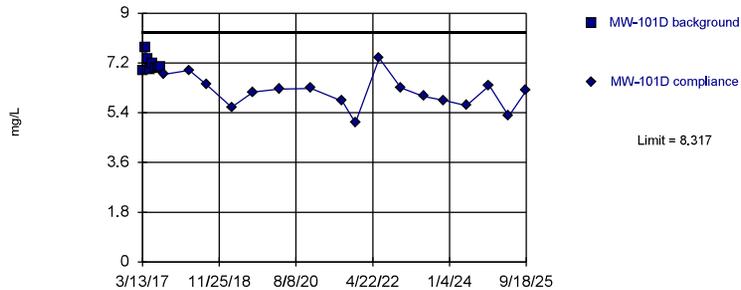


Background Data Summary (based on x^4 transformation): Mean=2.6e7, Std. Dev.=1.2e7, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7888, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Calcium Analysis Run 11/20/2025 10:58 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

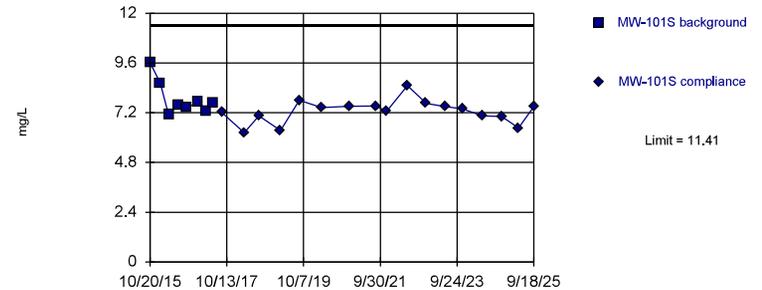


Background Data Summary: Mean=7.159, Std. Dev.=0.2746, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7961, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Chloride Analysis Run 11/20/2025 10:58 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

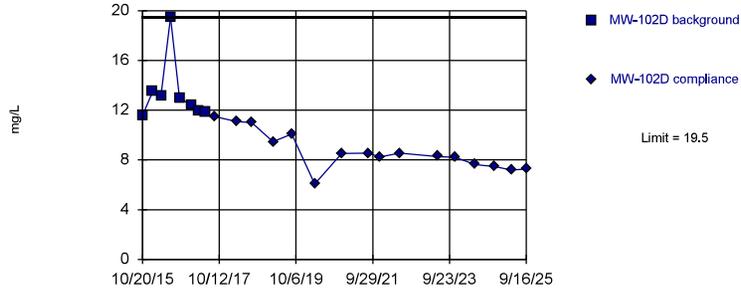


Background Data Summary: Mean=7.878, Std. Dev.=0.838, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8152, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Chloride Analysis Run 11/20/2025 10:58 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Non-parametric

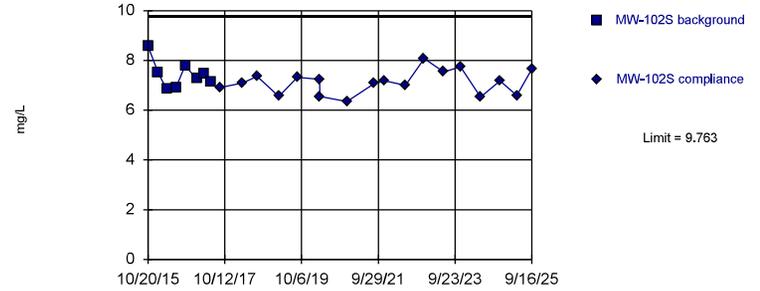


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 8 background values. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2). Seasonality was not detected with 95% confidence.

Constituent: Chloride Analysis Run 11/20/2025 10:58 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

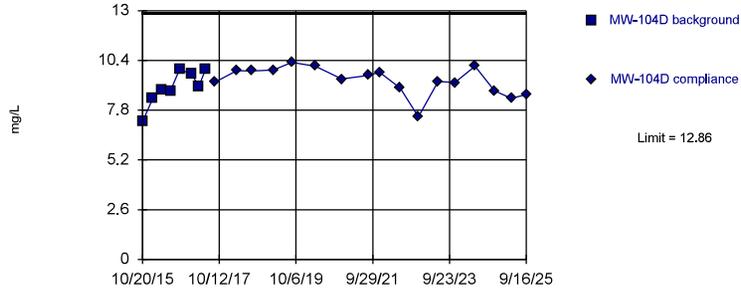
Within Limit

Prediction Limit Intrawell Parametric



Within Limit

Prediction Limit Intrawell Parametric

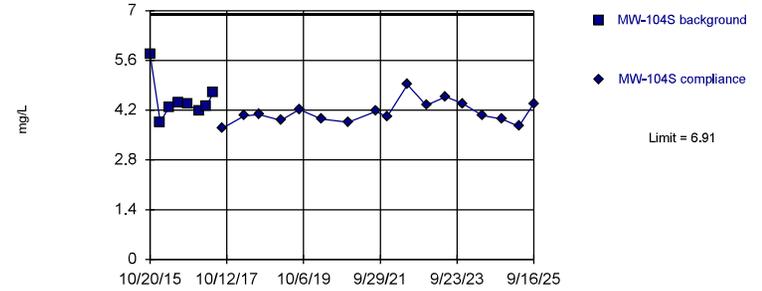


Background Data Summary: Mean=8.99, Std. Dev.=0.9163, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.902, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Chloride Analysis Run 11/20/2025 10:58 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

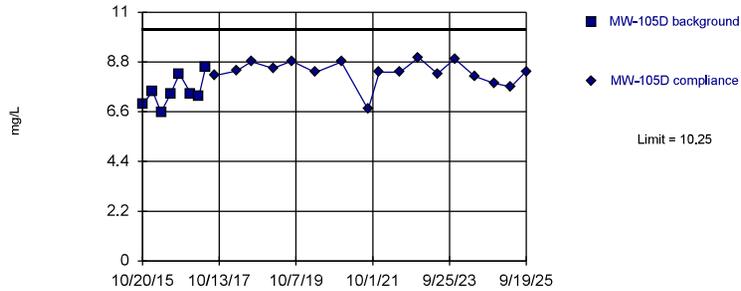


Background Data Summary: Mean=4.486, Std. Dev.=0.5744, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8008, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Chloride Analysis Run 11/20/2025 10:58 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

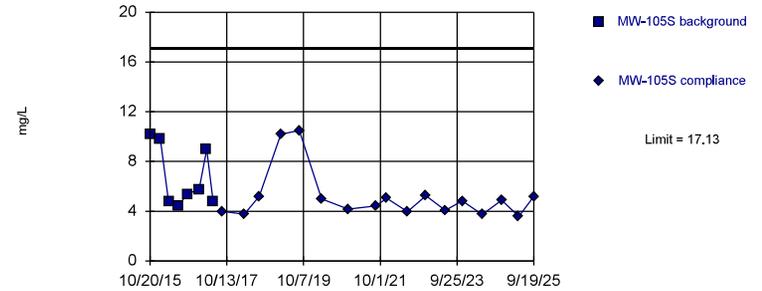


Background Data Summary: Mean=7.489, Std. Dev.=0.6532, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9324, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Chloride Analysis Run 11/20/2025 10:58 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

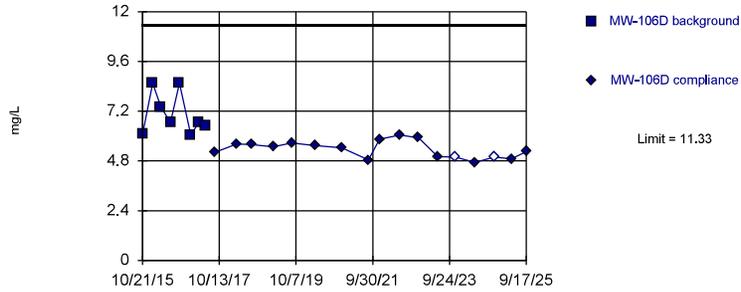


Background Data Summary: Mean=6.773, Std. Dev.=2.454, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8081, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Chloride Analysis Run 11/20/2025 10:58 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

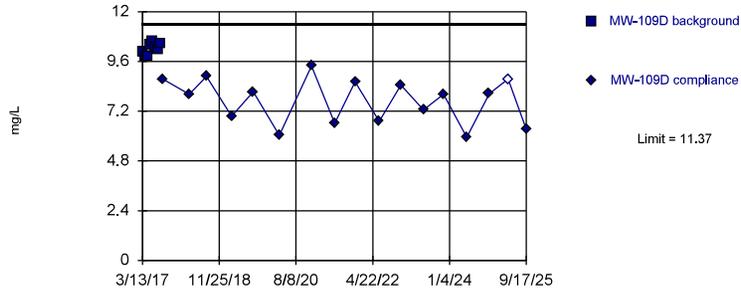
Within Limit

Prediction Limit Intrawell Parametric



Within Limit

Prediction Limit
Intrawell Parametric

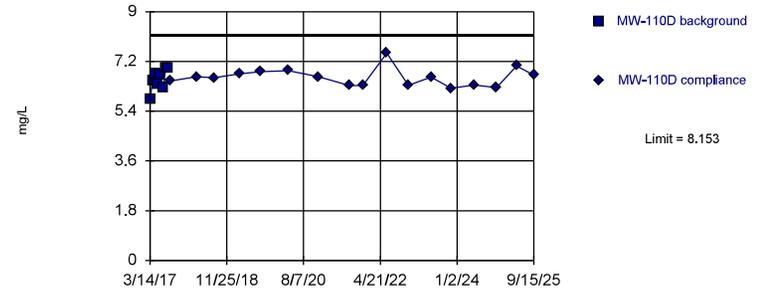


Background Data Summary: Mean=10.22, Std. Dev.=0.273, n=8. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.938, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Chloride Analysis Run 11/20/2025 10:58 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit
Intrawell Parametric

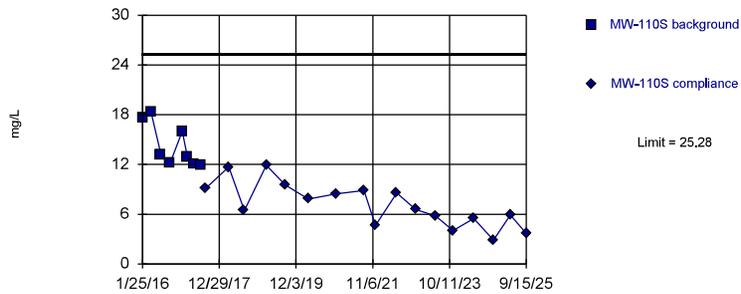


Background Data Summary: Mean=6.546, Std. Dev.=0.3808, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9292, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Chloride Analysis Run 11/20/2025 10:58 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit
Intrawell Parametric

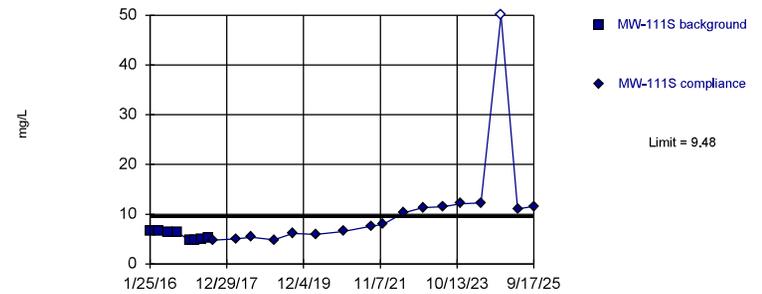


Background Data Summary: Mean=14.29, Std. Dev.=2.605, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8179, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Chloride Analysis Run 11/20/2025 10:58 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Exceeds Limit

Prediction Limit
Intrawell Parametric



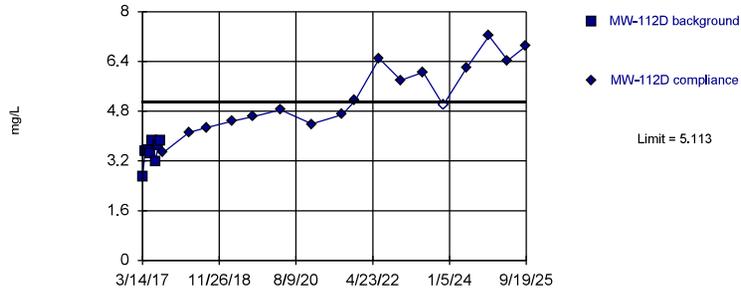
Background Data Summary: Mean=5.744, Std. Dev.=0.8854, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8287, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Chloride Analysis Run 11/20/2025 10:58 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Exceeds Limit

Prediction Limit

Intrawell Parametric



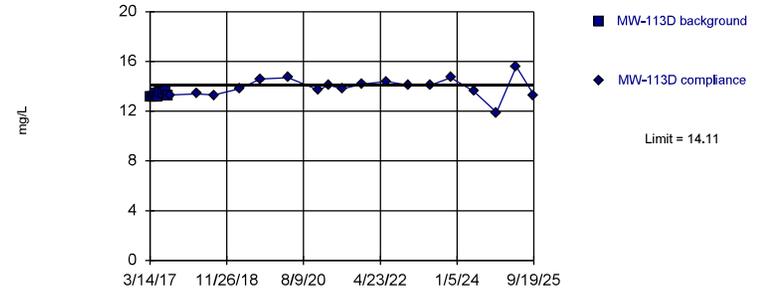
Background Data Summary: Mean=3.476, Std. Dev.=0.3878, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8825, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Chloride Analysis Run 11/20/2025 10:58 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit

Intrawell Parametric



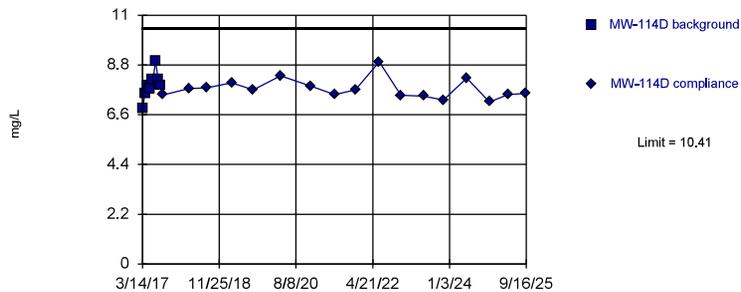
Background Data Summary: Mean=13.36, Std. Dev.=0.1768, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.877, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Chloride Analysis Run 11/20/2025 10:58 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit

Intrawell Parametric



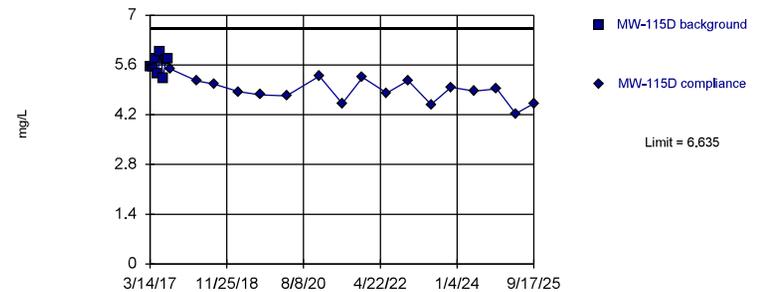
Background Data Summary: Mean=7.909, Std. Dev.=0.593, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9542, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Chloride Analysis Run 11/20/2025 10:58 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit

Intrawell Parametric



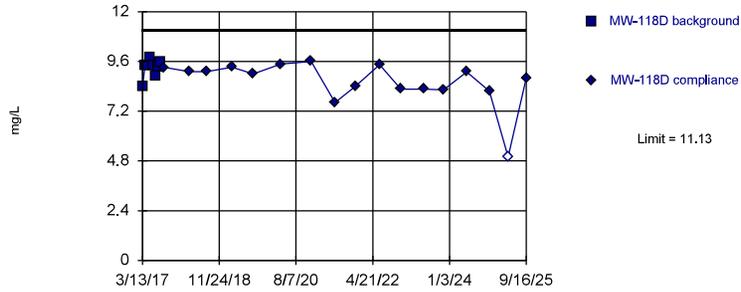
Background Data Summary: Mean=5.618, Std. Dev.=0.2411, n=8. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9603, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Chloride Analysis Run 11/20/2025 10:58 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit

Intrawell Parametric



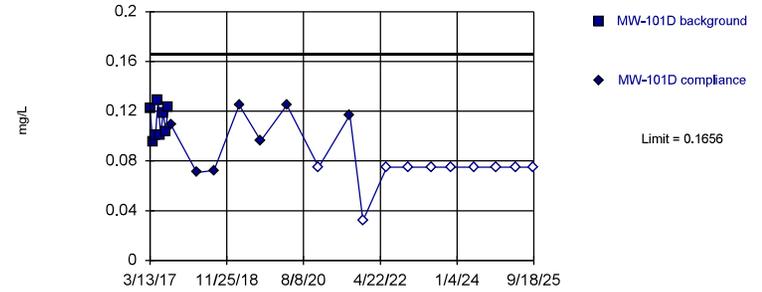
Background Data Summary: Mean=9.286, Std. Dev.=0.436, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.855, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Chloride Analysis Run 11/20/2025 10:59 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit

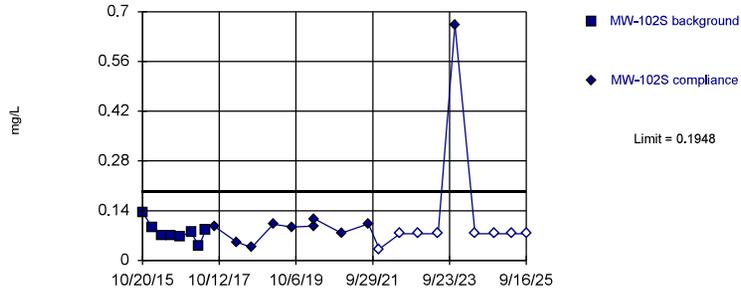
Intrawell Parametric



Within Limit

Prediction Limit

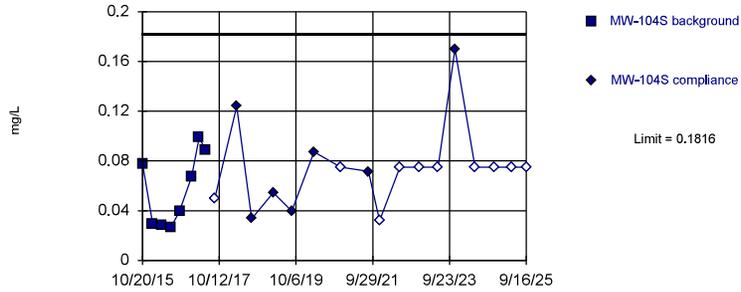
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Within Limit

Prediction Limit

Intrawell Parametric



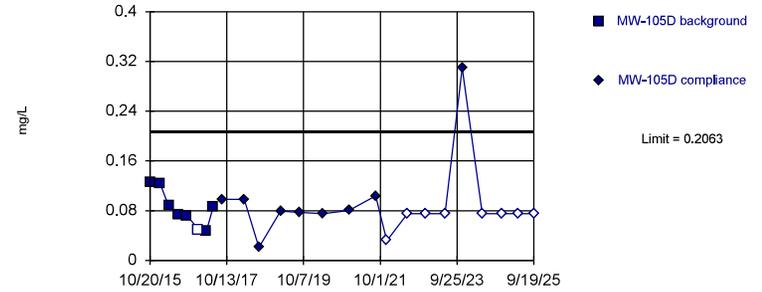
Background Data Summary: Mean=0.05696, Std. Dev.=0.02954, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8672, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Fluoride Analysis Run 11/20/2025 10:59 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit

Intrawell Parametric



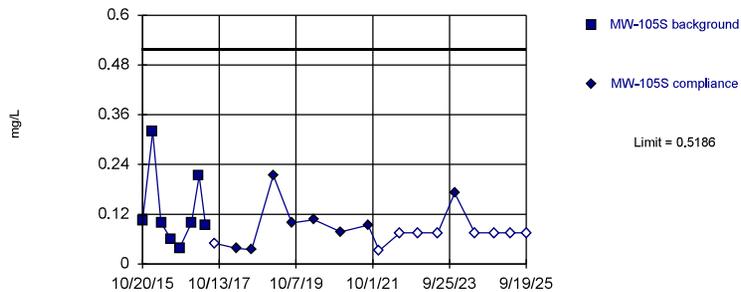
Background Data Summary: Mean=0.08313, Std. Dev.=0.02919, n=8, 12.5% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9082, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Fluoride Analysis Run 11/20/2025 10:59 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit

Intrawell Parametric



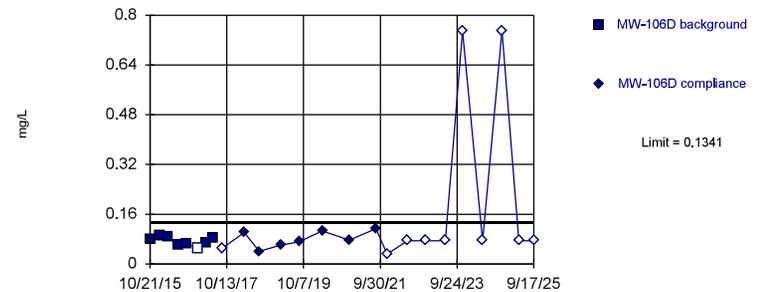
Background Data Summary: Mean=0.1282, Std. Dev.=0.09251, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8133, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Fluoride Analysis Run 11/20/2025 10:59 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit

Intrawell Parametric



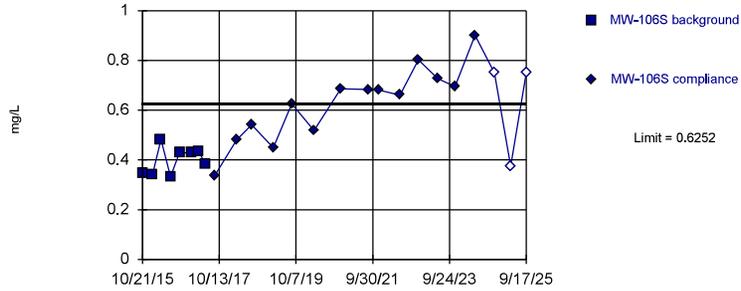
Background Data Summary: Mean=0.07271, Std. Dev.=0.01456, n=8, 12.5% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9592, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Fluoride Analysis Run 11/20/2025 10:59 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit

Intrawell Parametric



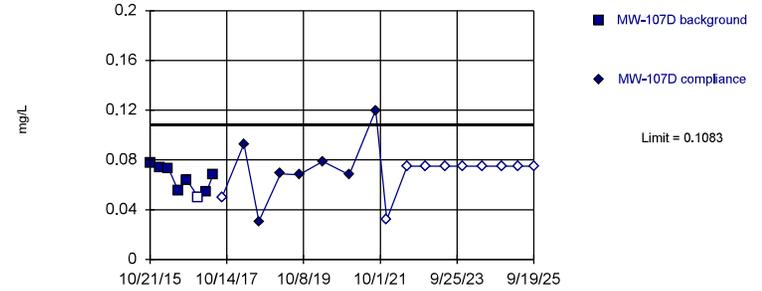
Background Data Summary: Mean=0.3978, Std. Dev.=0.0539, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9095, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Fluoride Analysis Run 11/20/2025 10:59 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit

Intrawell Parametric



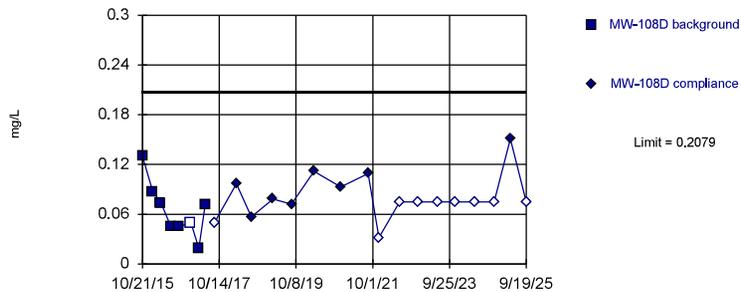
Background Data Summary: Mean=0.06458, Std. Dev.=0.01036, n=8, 12.5% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9235, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Fluoride Analysis Run 11/20/2025 10:59 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit

Intrawell Parametric



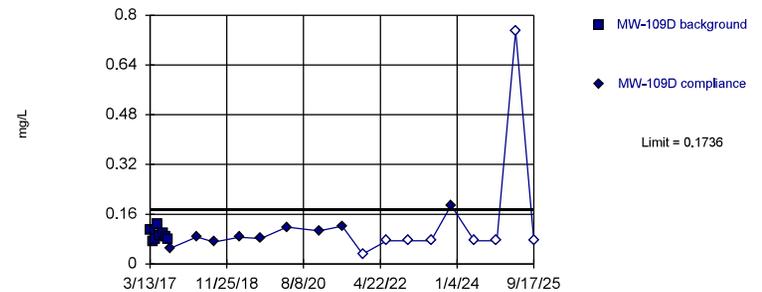
Background Data Summary: Mean=0.06534, Std. Dev.=0.03379, n=8, 12.5% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9452, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Fluoride Analysis Run 11/20/2025 10:59 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit

Intrawell Parametric



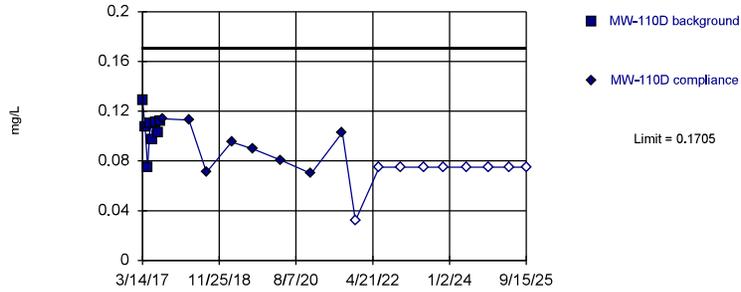
Background Data Summary: Mean=0.09348, Std. Dev.=0.019, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9006, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Fluoride Analysis Run 11/20/2025 10:59 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit

Intrawell Parametric



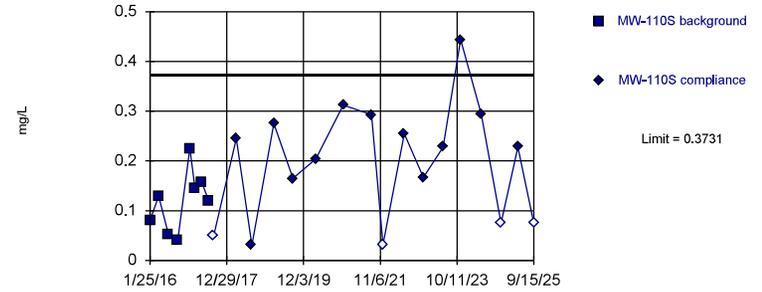
Background Data Summary: Mean=0.1055, Std. Dev.=0.01539, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9163, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Fluoride Analysis Run 11/20/2025 10:59 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit

Intrawell Parametric



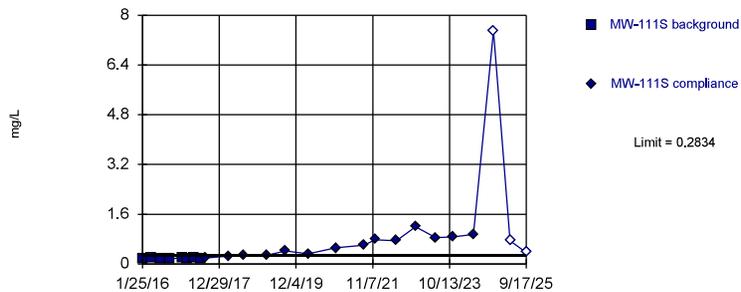
Background Data Summary: Mean=0.1186, Std. Dev.=0.06029, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9581, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Fluoride Analysis Run 11/20/2025 10:59 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit

Intrawell Parametric



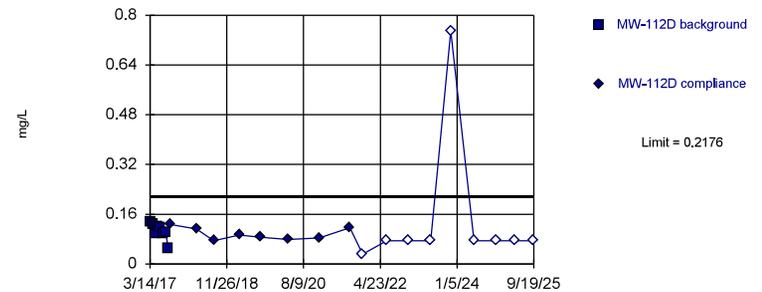
Background Data Summary: Mean=0.1786, Std. Dev.=0.02482, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9368, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Fluoride Analysis Run 11/20/2025 10:59 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit

Intrawell Parametric



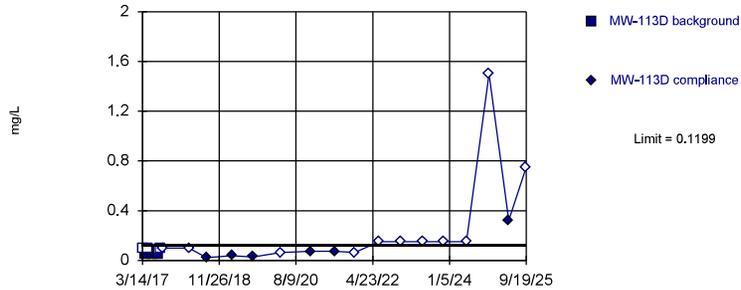
Background Data Summary: Mean=0.1062, Std. Dev.=0.02641, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8805, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Fluoride Analysis Run 11/20/2025 10:59 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit

Intrawell Parametric



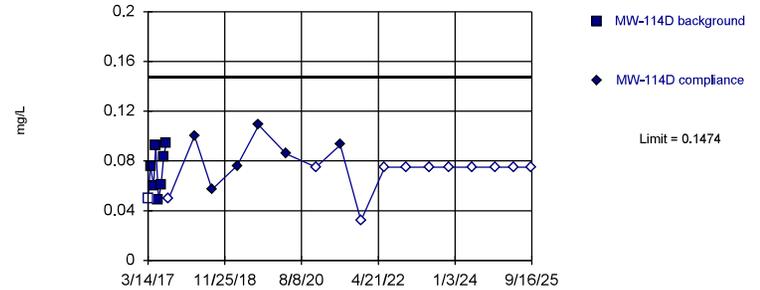
Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.0617, Std. Dev.=0.0138, n=8, 37.5% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8043, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Fluoride Analysis Run 11/20/2025 10:59 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit

Intrawell Parametric



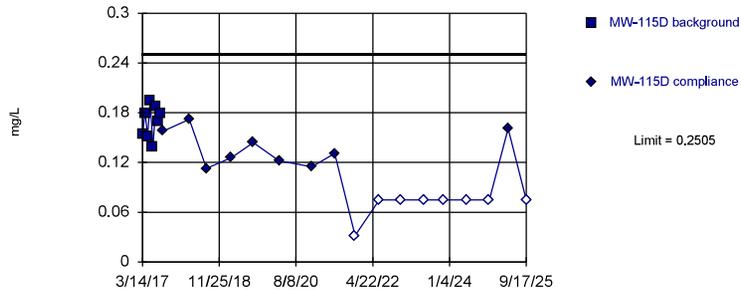
Background Data Summary: Mean=0.07075, Std. Dev.=0.01815, n=8, 12.5% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8955, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Fluoride Analysis Run 11/20/2025 10:59 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit

Intrawell Parametric



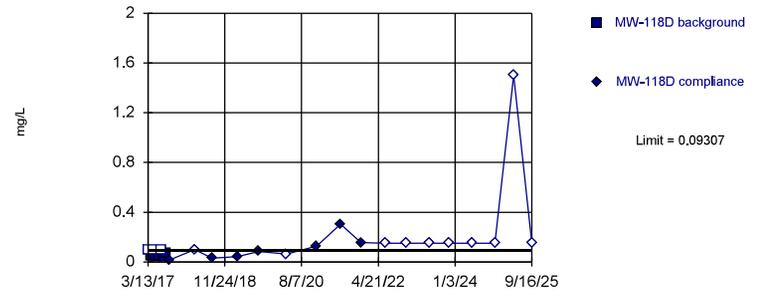
Background Data Summary: Mean=0.1694, Std. Dev.=0.01921, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9443, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Fluoride Analysis Run 11/20/2025 10:59 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit

Intrawell Parametric

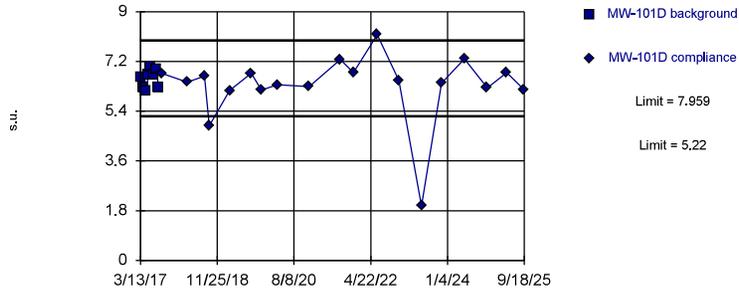


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.05134, Std. Dev.=0.009888, n=8, 37.5% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8152, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Fluoride Analysis Run 11/20/2025 10:59 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limits

Prediction Limit Intrawell Parametric

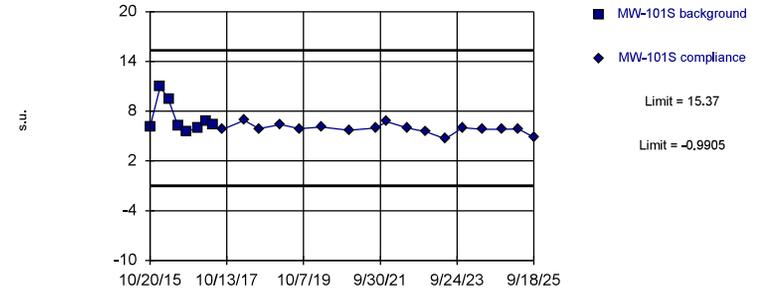


Background Data Summary: Mean=6.589, Std. Dev.=0.3245, n=8. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9088, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: pH Analysis Run 11/20/2025 10:59 AM
 White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limits

Prediction Limit Intrawell Parametric

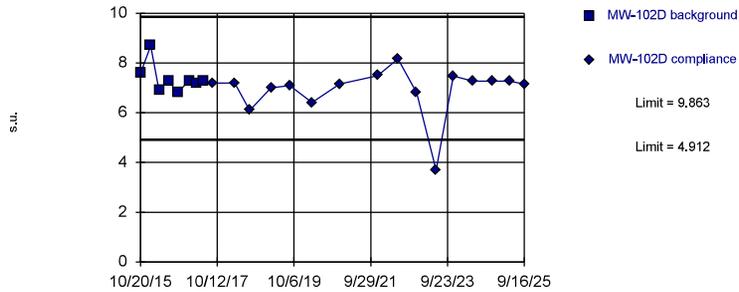


Background Data Summary: Mean=7.188, Std. Dev.=1.938, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7625, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: pH Analysis Run 11/20/2025 10:59 AM
 White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limits

Prediction Limit Intrawell Parametric

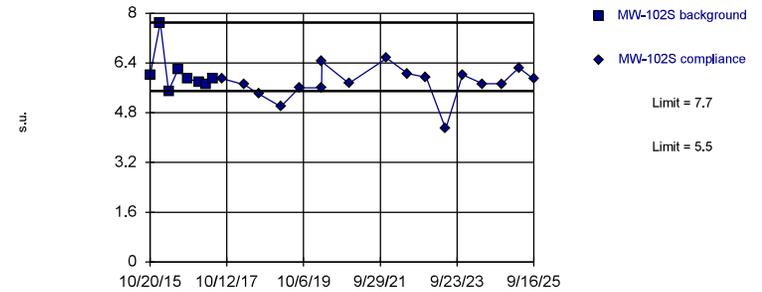


Background Data Summary: Mean=7.388, Std. Dev.=0.5866, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8007, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: pH Analysis Run 11/20/2025 10:59 AM
 White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limits

Prediction Limit Intrawell Non-parametric

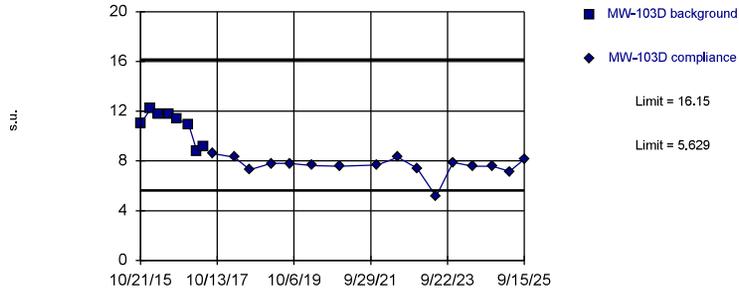


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 8 background values. Well-constituent pair annual alpha = 0.08484. Individual comparison alpha = 0.04288 (1 of 2). Seasonality was not detected with 95% confidence.

Constituent: pH Analysis Run 11/20/2025 10:59 AM
 White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limits

Prediction Limit Intrawell Parametric

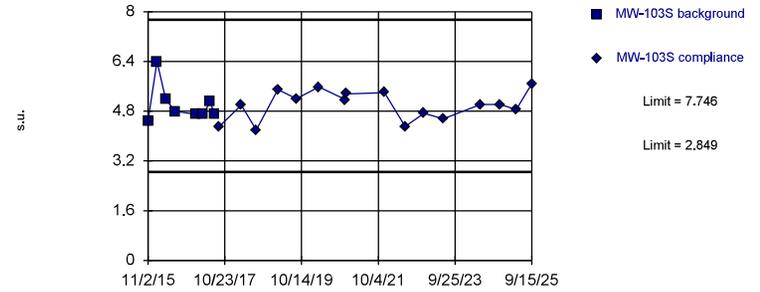


Background Data Summary: Mean=10.89, Std. Dev.=1.246, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8613, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: pH Analysis Run 11/20/2025 10:59 AM
 White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limits

Prediction Limit Intrawell Parametric

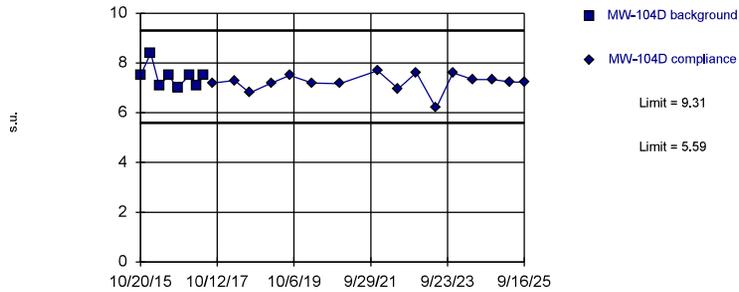


Background Data Summary (based on square root transformation): Mean=2.236, Std. Dev.=0.1298, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7626, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: pH Analysis Run 11/20/2025 10:59 AM
 White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limits

Prediction Limit Intrawell Parametric

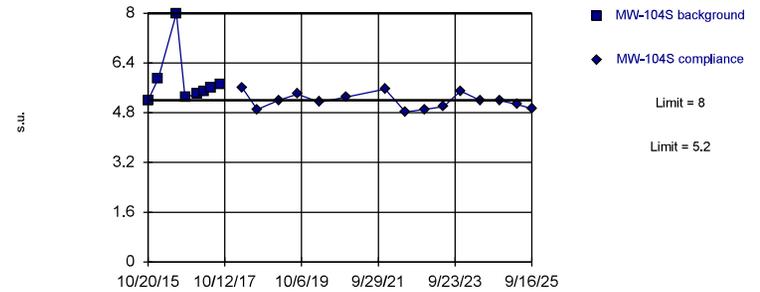


Background Data Summary: Mean=7.45, Std. Dev.=0.4408, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8007, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: pH Analysis Run 11/20/2025 10:59 AM
 White Bluff Plant Client: TRC Data: WBLF CCR Database

Exceeds Limits

Prediction Limit Intrawell Non-parametric

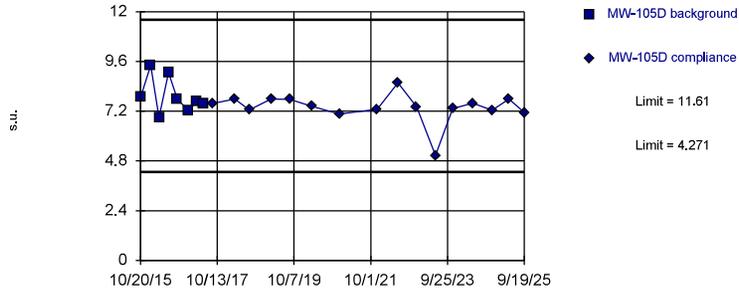


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 8 background values. Well-constituent pair annual alpha = 0.08484. Individual comparison alpha = 0.04288 (1 of 2). Seasonality was not detected with 95% confidence.

Constituent: pH Analysis Run 11/20/2025 10:59 AM
 White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limits

Prediction Limit
Intrawell Parametric

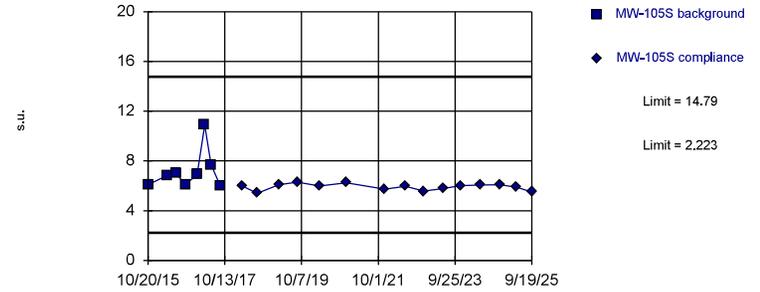


Background Data Summary: Mean=7.939, Std. Dev.=0.8692, n=8. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8895, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: pH Analysis Run 11/20/2025 10:59 AM
 White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limits

Prediction Limit
Intrawell Parametric

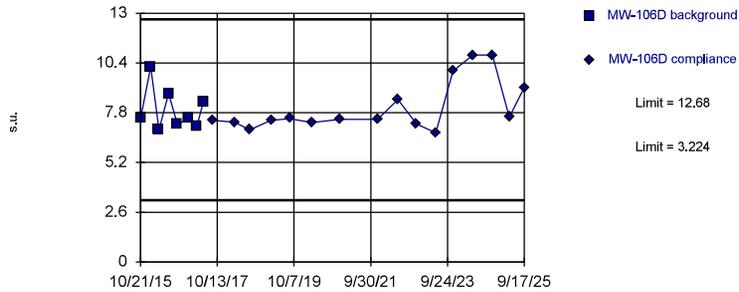


Background Data Summary (based on square root transformation): Mean=2.668, Std. Dev.=0.279, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7609, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: pH Analysis Run 11/20/2025 10:59 AM
 White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limits

Prediction Limit
Intrawell Parametric

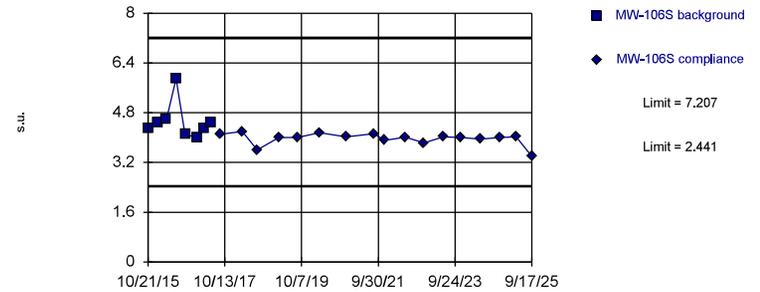


Background Data Summary: Mean=7.95, Std. Dev.=1.12, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8577, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: pH Analysis Run 11/20/2025 10:59 AM
 White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limits

Prediction Limit
Intrawell Parametric

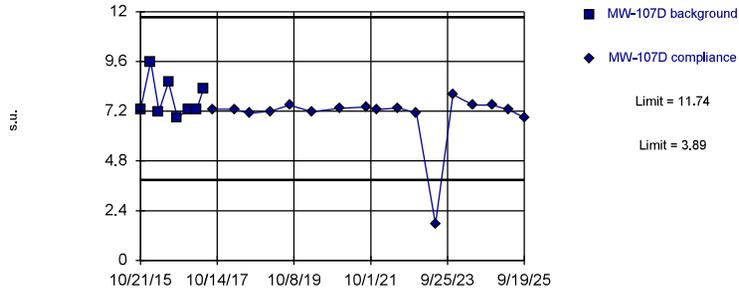


Background Data Summary (based on square root transformation): Mean=2.124, Std. Dev.=0.133, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7694, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: pH Analysis Run 11/20/2025 11:00 AM
 White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limits

Prediction Limit
Intrawell Parametric

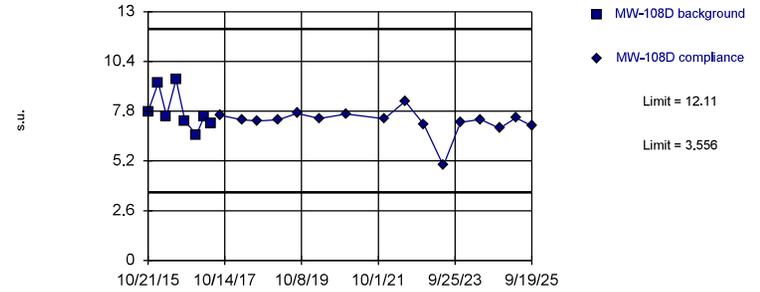


Background Data Summary: Mean=7.813, Std. Dev.=0.9296, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8379, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: pH Analysis Run 11/20/2025 11:00 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limits

Prediction Limit
Intrawell Parametric

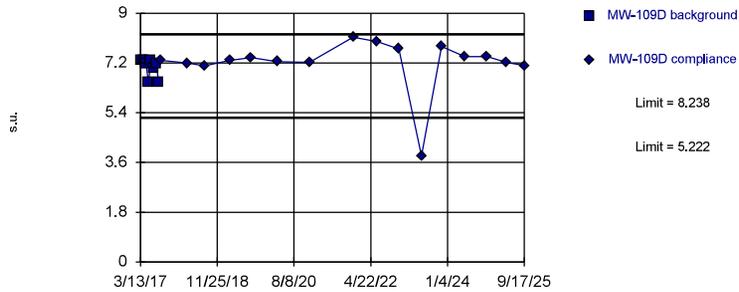


Background Data Summary: Mean=7.832, Std. Dev.=1.013, n=8. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8676, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: pH Analysis Run 11/20/2025 11:00 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limits

Prediction Limit
Intrawell Parametric

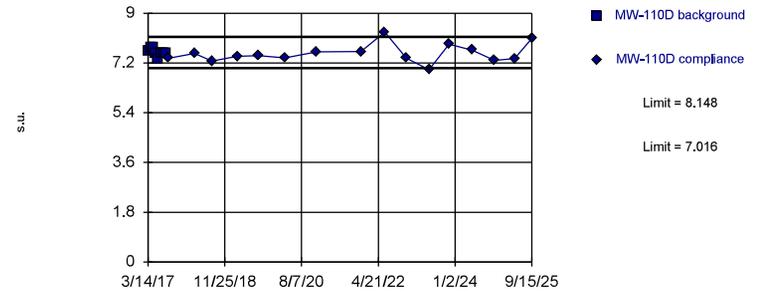


Background Data Summary (based on cube transformation): Mean=350.7, Std. Dev.=49.36, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7546, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: pH Analysis Run 11/20/2025 11:00 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limits

Prediction Limit
Intrawell Parametric

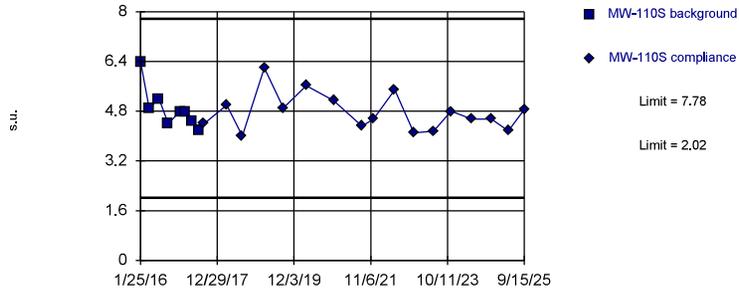


Background Data Summary: Mean=7.582, Std. Dev.=0.1341, n=8. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9035, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: pH Analysis Run 11/20/2025 11:00 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limits

Prediction Limit
Intrawell Parametric

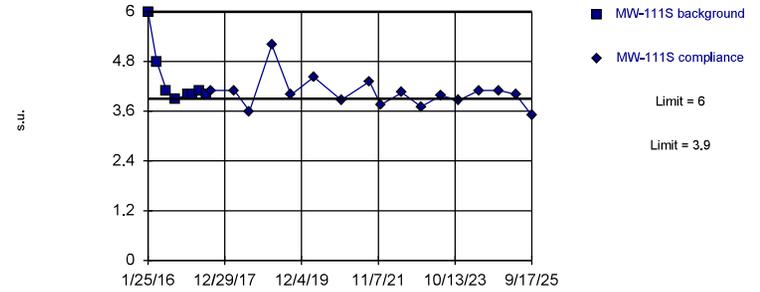


Background Data Summary: Mean=4.9, Std. Dev.=0.6824, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8395, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: pH Analysis Run 11/20/2025 11:00 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Exceeds Limits

Prediction Limit
Intrawell Non-parametric

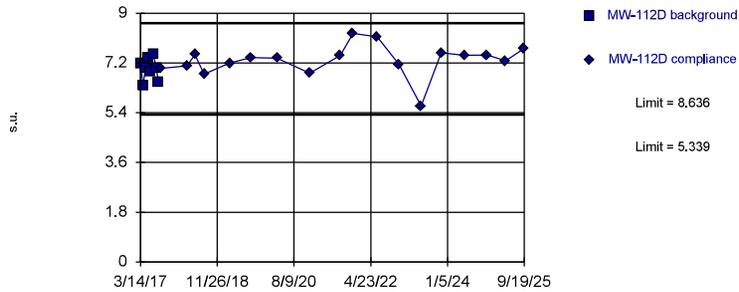


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 8 background values. Well-constituent pair annual alpha = 0.08484. Individual comparison alpha = 0.04288 (1 of 2). Seasonality was not detected with 95% confidence.

Constituent: pH Analysis Run 11/20/2025 11:00 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limits

Prediction Limit
Intrawell Parametric

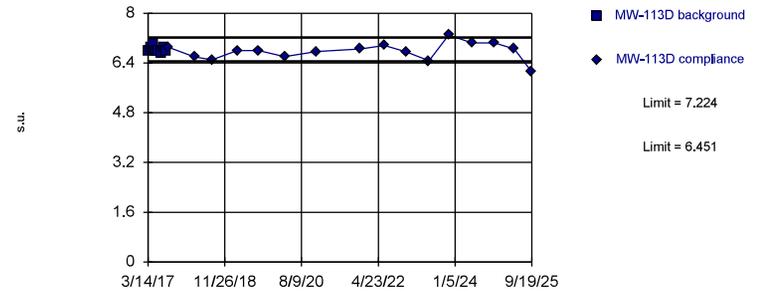


Background Data Summary: Mean=6.988, Std. Dev.=0.3907, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9409, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: pH Analysis Run 11/20/2025 11:00 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Exceeds Limits

Prediction Limit
Intrawell Parametric

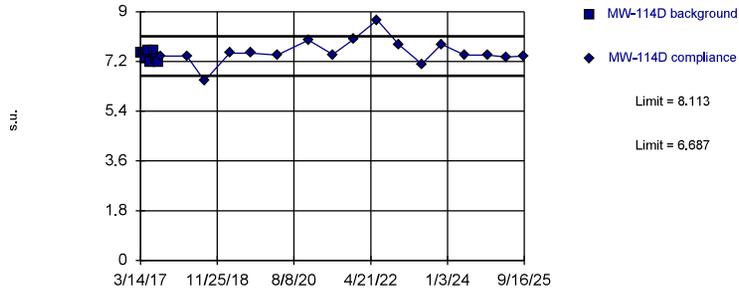


Background Data Summary: Mean=6.838, Std. Dev.=0.09161, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9054, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: pH Analysis Run 11/20/2025 11:00 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limits

Prediction Limit Intrawell Parametric

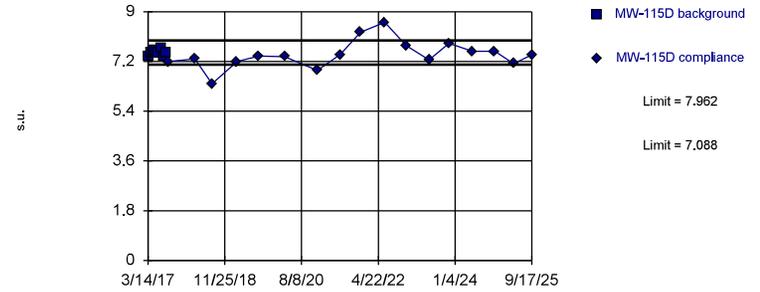


Background Data Summary: Mean=7.4, Std. Dev.=0.169, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.86, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: pH Analysis Run 11/20/2025 11:00 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limits

Prediction Limit Intrawell Parametric

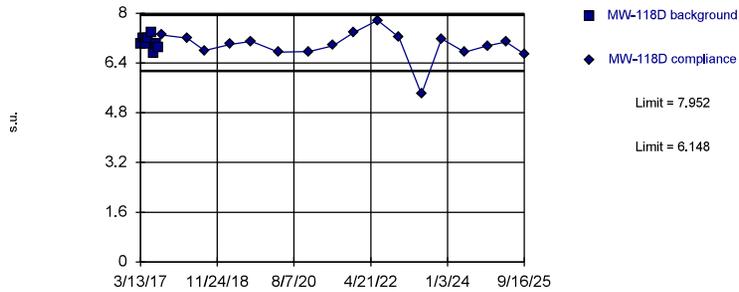


Background Data Summary: Mean=7.525, Std. Dev.=0.1035, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9171, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: pH Analysis Run 11/20/2025 11:00 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limits

Prediction Limit Intrawell Parametric

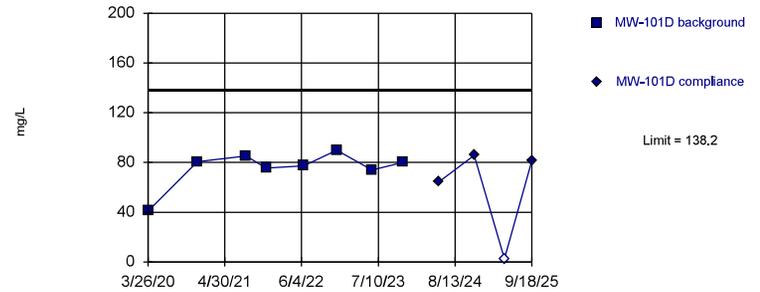


Background Data Summary: Mean=7.05, Std. Dev.=0.2138, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9571, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: pH Analysis Run 11/20/2025 11:00 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

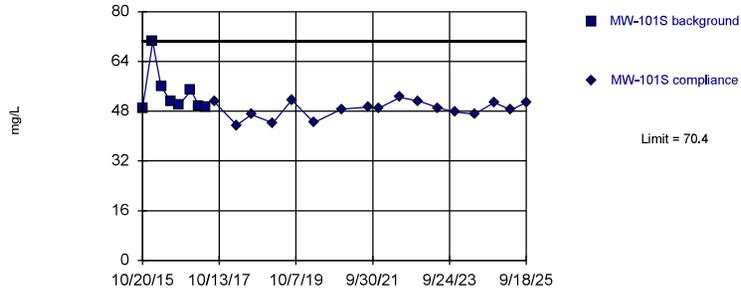


Background Data Summary: Mean=75.49, Std. Dev.=14.86, n=8. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7559, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Sulfate Analysis Run 11/20/2025 11:00 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Non-parametric

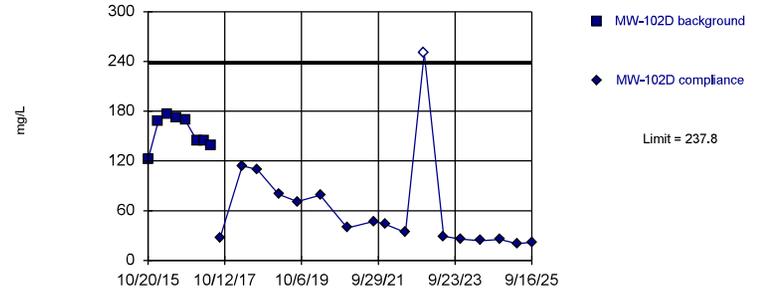


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 8 background values. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2). Seasonality was not detected with 95% confidence.

Constituent: Sulfate Analysis Run 11/20/2025 11:00 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

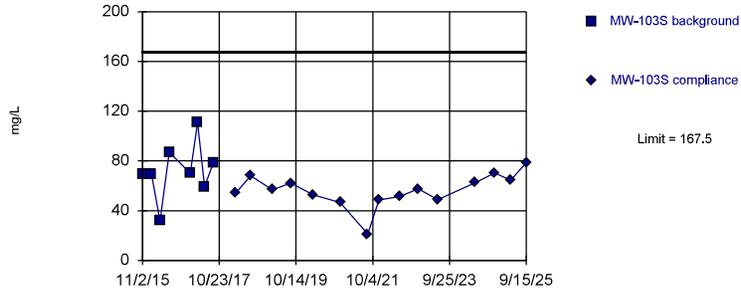
Within Limit

Prediction Limit Intrawell Parametric



Within Limit

Prediction Limit
Intrawell Parametric

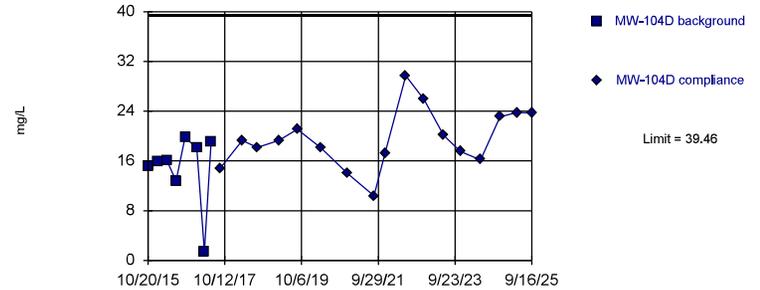


Background Data Summary: Mean=72.15, Std. Dev.=22.6, n=8. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9501, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Sulfate Analysis Run 11/20/2025 11:00 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit
Intrawell Parametric

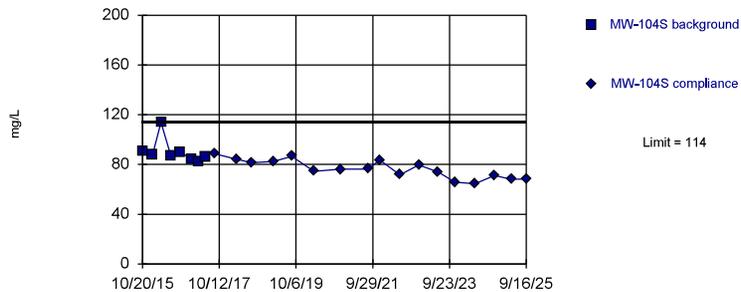


Background Data Summary: Mean=14.78, Std. Dev.=5.85, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7743, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Sulfate Analysis Run 11/20/2025 11:00 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit
Intrawell Non-parametric

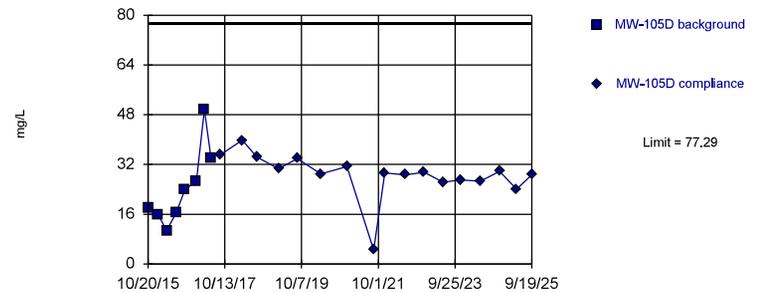


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 8 background values. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2). Seasonality was not detected with 95% confidence.

Constituent: Sulfate Analysis Run 11/20/2025 11:00 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit
Intrawell Parametric

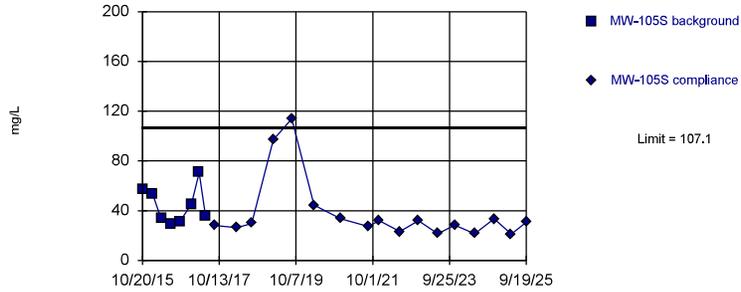


Background Data Summary: Mean=24.44, Std. Dev.=12.53, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8989, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Sulfate Analysis Run 11/20/2025 11:00 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

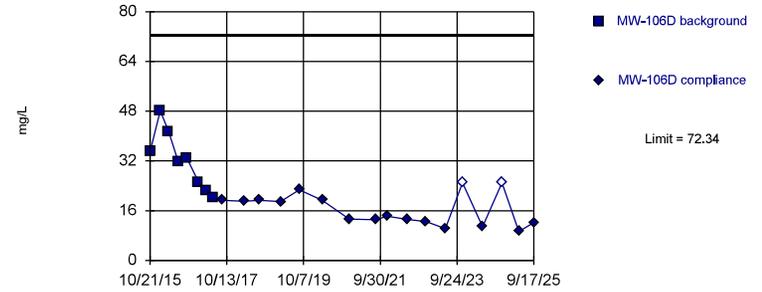


Background Data Summary: Mean=44.65, Std. Dev.=14.79, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9046, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Sulfate Analysis Run 11/20/2025 11:00 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

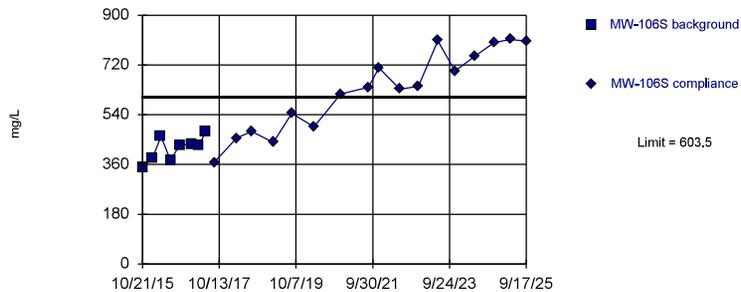


Background Data Summary: Mean=32.2, Std. Dev.=9.512, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9589, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Sulfate Analysis Run 11/20/2025 11:00 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Exceeds Limit

Prediction Limit Intrawell Parametric

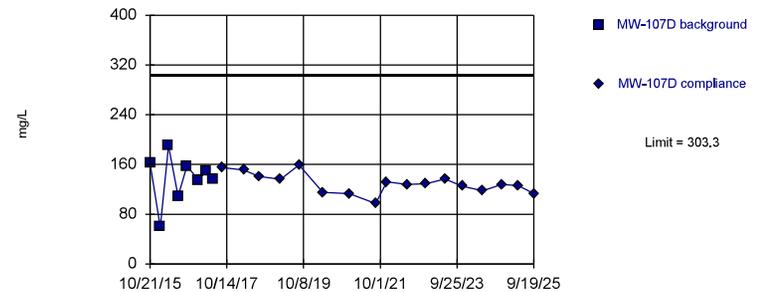


Background Data Summary: Mean=417.6, Std. Dev.=44.04, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9521, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Sulfate Analysis Run 11/20/2025 11:00 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

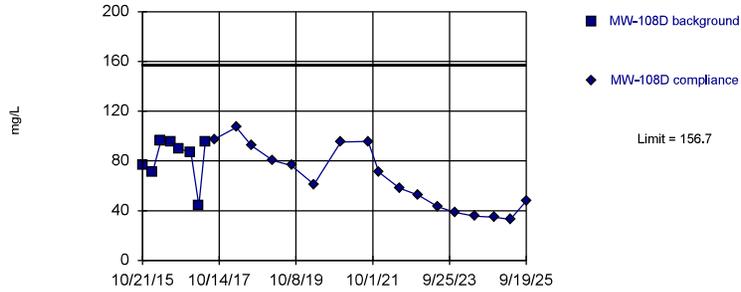


Background Data Summary: Mean=137.5, Std. Dev.=39.29, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9332, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Sulfate Analysis Run 11/20/2025 11:00 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

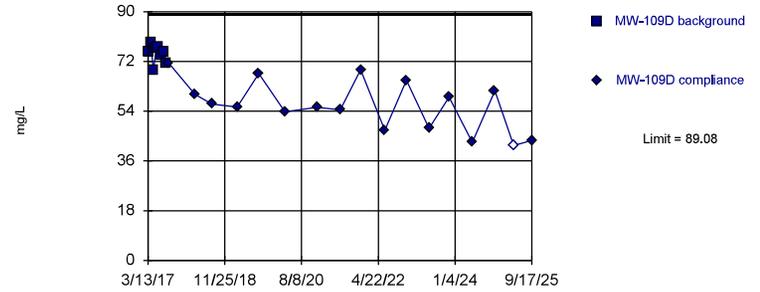


Background Data Summary: Mean=82.04, Std. Dev.=17.7, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.818, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Sulfate Analysis Run 11/20/2025 11:00 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

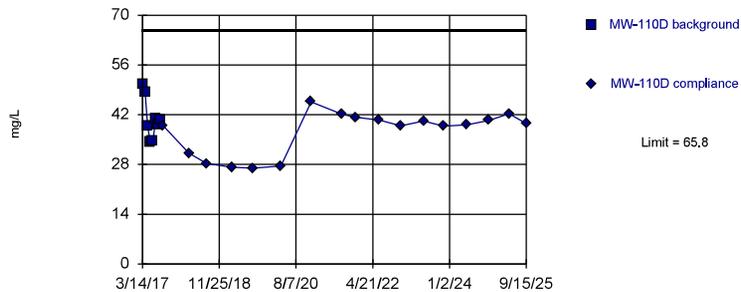


Background Data Summary: Mean=74.84, Std. Dev.=3.375, n=8. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9277, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Sulfate Analysis Run 11/20/2025 11:00 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

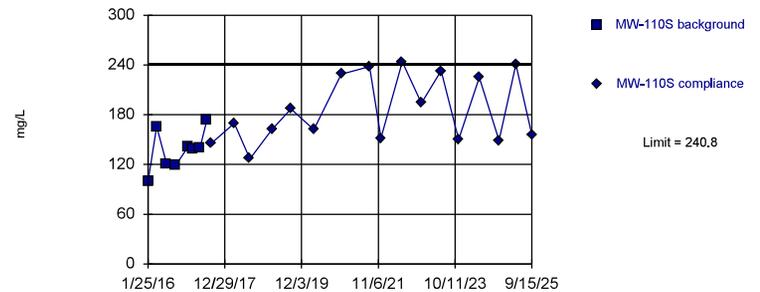


Background Data Summary: Mean=40.95, Std. Dev.=5.889, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.888, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Sulfate Analysis Run 11/20/2025 11:00 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

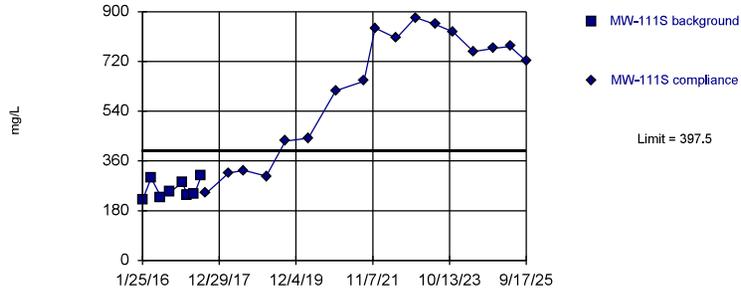


Background Data Summary: Mean=137.5, Std. Dev.=24.48, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9542, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Sulfate Analysis Run 11/20/2025 11:00 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Exceeds Limit

Prediction Limit
Intrawell Parametric

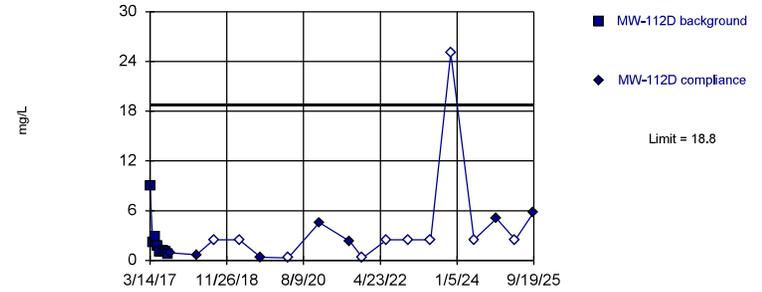


Background Data Summary: Mean=257.8, Std. Dev.=33.11, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8865, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Sulfate Analysis Run 11/20/2025 11:00 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit
Intrawell Parametric

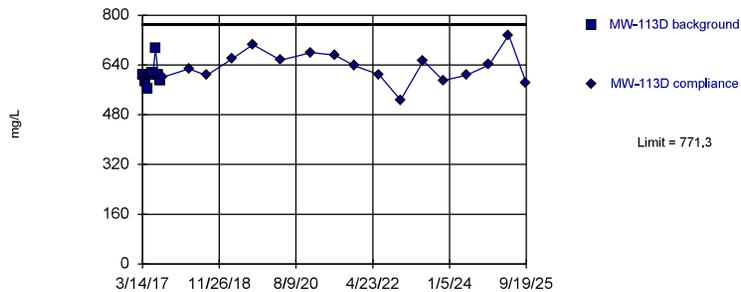


Background Data Summary (based on square root transformation): Mean=1.44, Std. Dev.=0.6861, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7639, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Sulfate Analysis Run 11/20/2025 11:00 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit
Intrawell Parametric

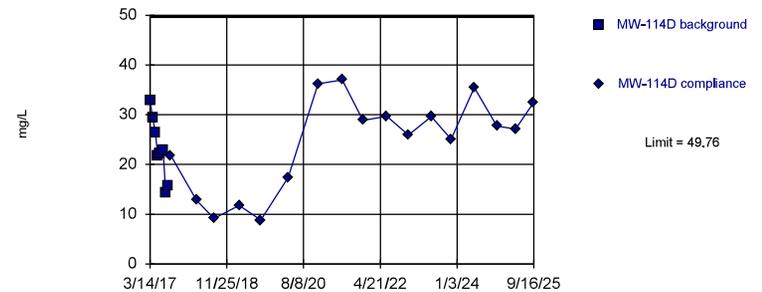


Background Data Summary: Mean=609, Std. Dev.=38.47, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8252, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Sulfate Analysis Run 11/20/2025 11:00 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit
Intrawell Parametric

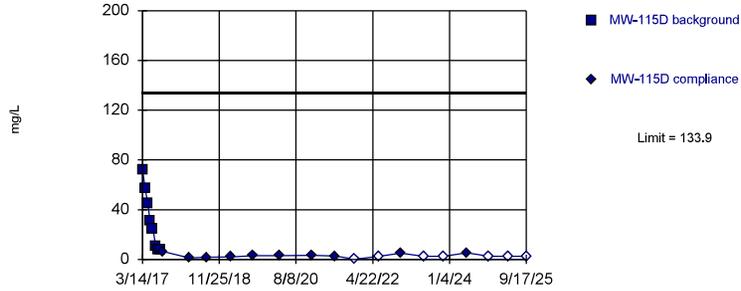


Background Data Summary: Mean=23.19, Std. Dev.=6.296, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9629, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Sulfate Analysis Run 11/20/2025 11:00 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit
Intrawell Parametric

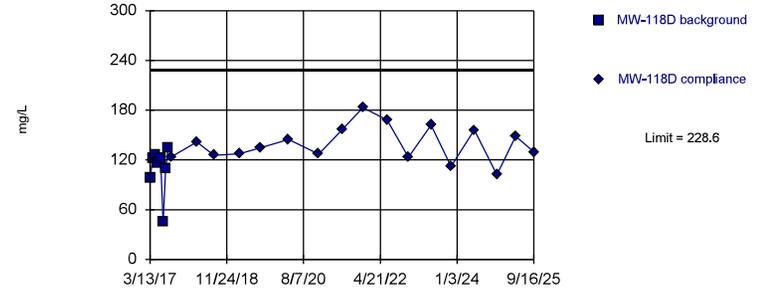


Background Data Summary: Mean=32.16, Std. Dev.=24.12, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9039, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Sulfate Analysis Run 11/20/2025 11:00 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit
Intrawell Parametric

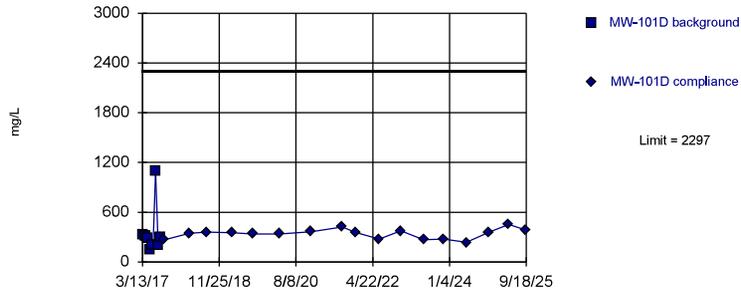


Background Data Summary: Mean=109.4, Std. Dev.=28.25, n=8. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7738, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: Sulfate Analysis Run 11/20/2025 11:00 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit
Intrawell Parametric

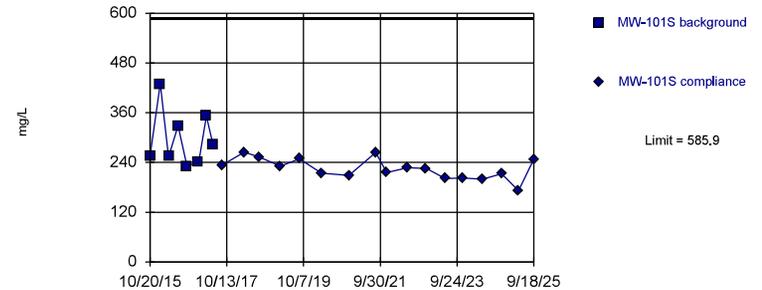


Background Data Summary (based on cube root transformation): Mean=6.861, Std. Dev.=1.501, n=8. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.762, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: TDS Analysis Run 11/20/2025 11:01 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit
Intrawell Parametric

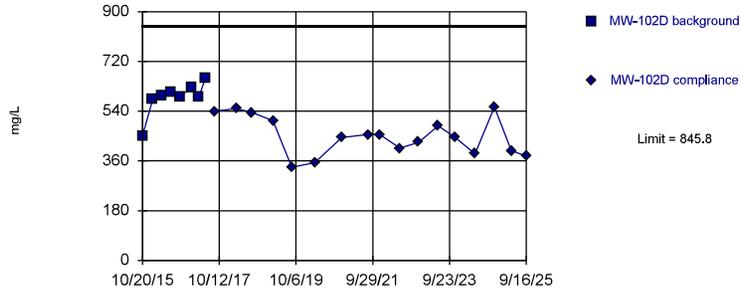


Background Data Summary: Mean=296.9, Std. Dev.=68.49, n=8. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8778, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: TDS Analysis Run 11/20/2025 11:01 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

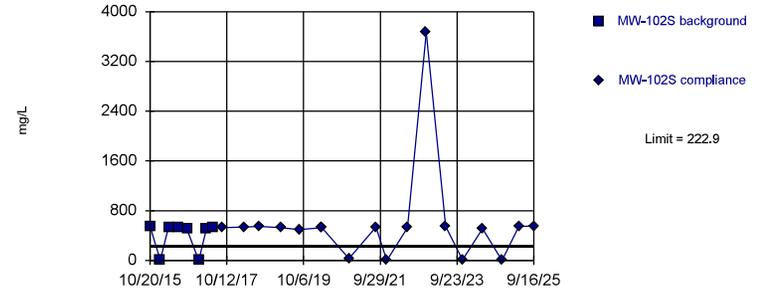


Background Data Summary: Mean=588.9, Std. Dev.=60.89, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7906, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: TDS Analysis Run 11/20/2025 11:01 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Exceeds Limit

Prediction Limit Intrawell Parametric

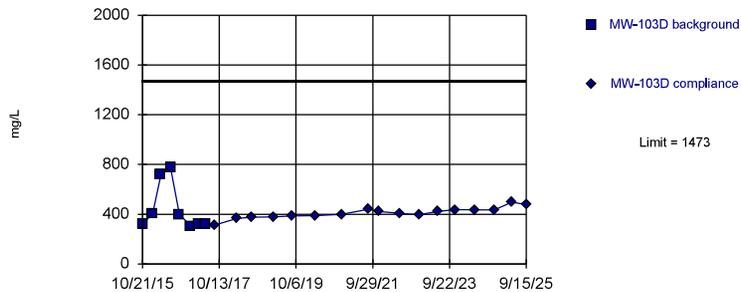


Background Data Summary (based on x*5 transformation): Mean=2.0e11, Std. Dev.=8.2e10, n=8. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7721, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: TDS Analysis Run 11/20/2025 11:01 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

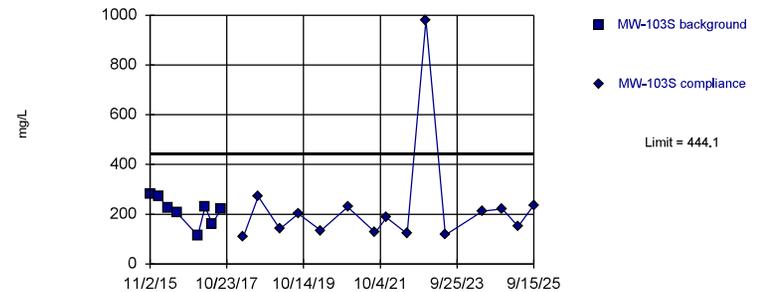


Background Data Summary (based on square root transformation): Mean=20.78, Std. Dev.=4.17, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7517, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: TDS Analysis Run 11/20/2025 11:01 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

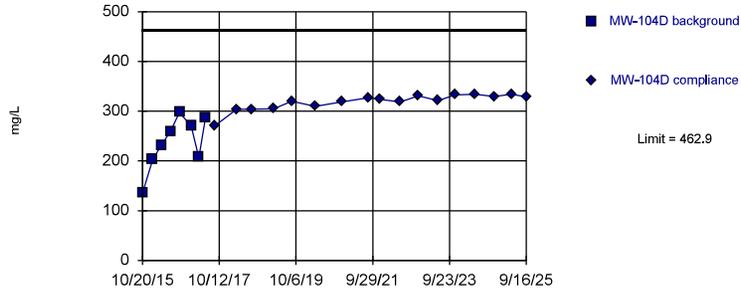


Background Data Summary: Mean=213.8, Std. Dev.=54.58, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9424, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: TDS Analysis Run 11/20/2025 11:01 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

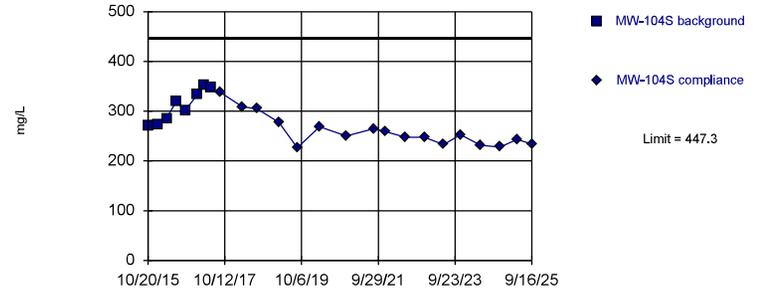


Background Data Summary: Mean=236.6, Std. Dev.=53.61, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9352, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: TDS Analysis Run 11/20/2025 11:01 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

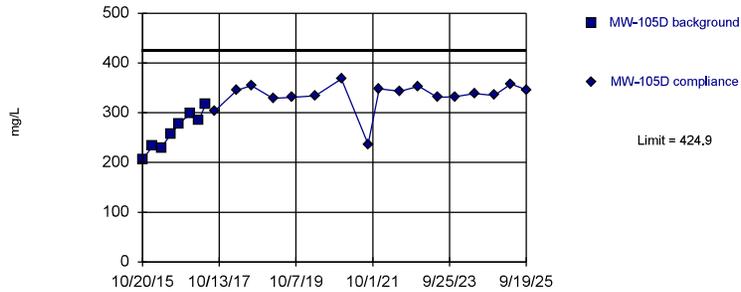


Background Data Summary: Mean=310.9, Std. Dev.=32.32, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9126, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: TDS Analysis Run 11/20/2025 11:01 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

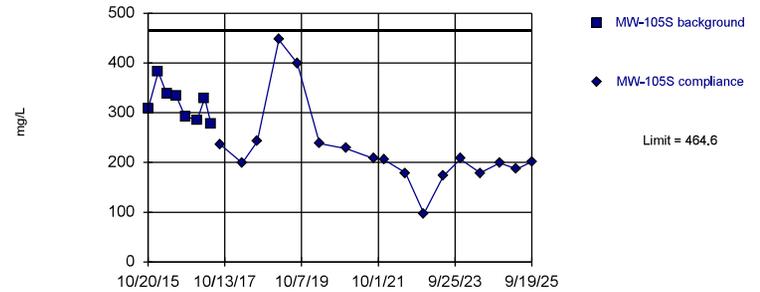


Background Data Summary: Mean=263, Std. Dev.=38.37, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9641, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: TDS Analysis Run 11/20/2025 11:01 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

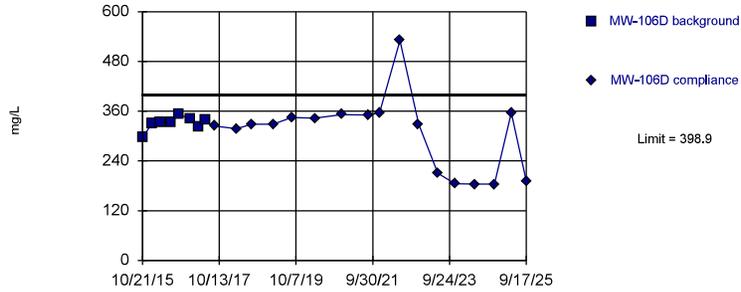


Background Data Summary: Mean=318.4, Std. Dev.=34.64, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9396, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: TDS Analysis Run 11/20/2025 11:01 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit
Intrawell Parametric

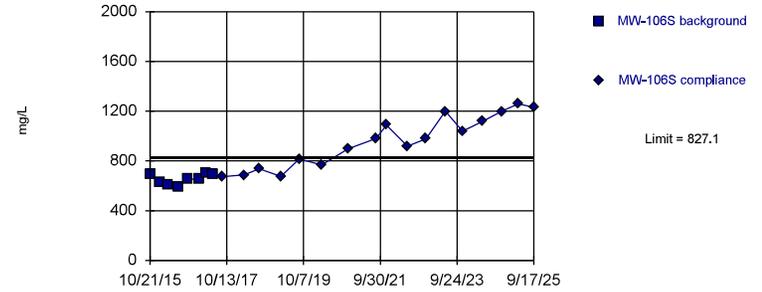


Background Data Summary: Mean=331.3, Std. Dev.=16.02, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8926, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: TDS Analysis Run 11/20/2025 11:01 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Exceeds Limit

Prediction Limit
Intrawell Parametric

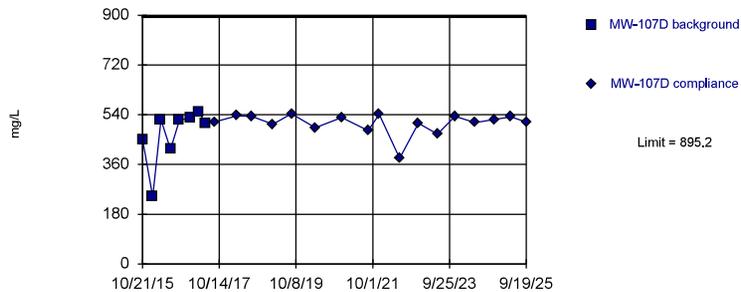


Background Data Summary: Mean=651.5, Std. Dev.=41.61, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9154, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: TDS Analysis Run 11/20/2025 11:01 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit
Intrawell Parametric

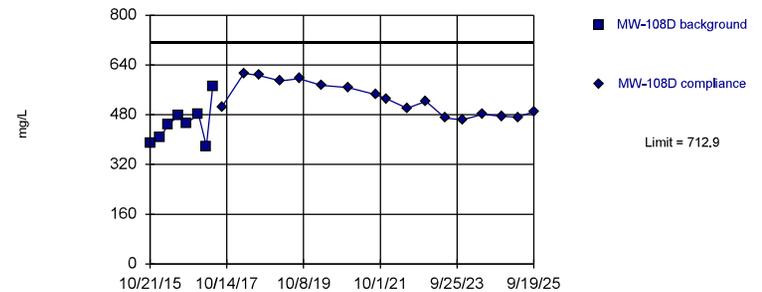


Background Data Summary: Mean=467.8, Std. Dev.=101.3, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.772, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: TDS Analysis Run 11/20/2025 11:01 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit
Intrawell Parametric

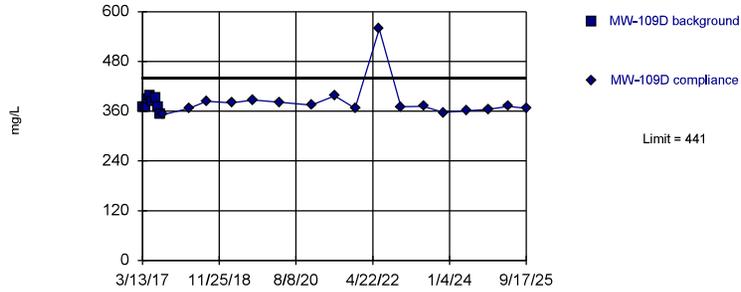


Background Data Summary: Mean=451, Std. Dev.=62.06, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9261, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: TDS Analysis Run 11/20/2025 11:01 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

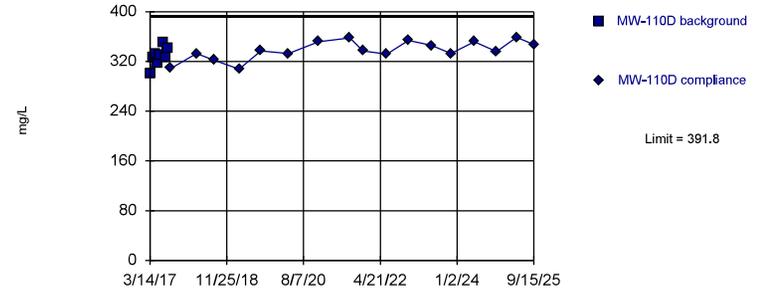


Background Data Summary: Mean=378, Std. Dev.=14.93, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9316, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: TDS Analysis Run 11/20/2025 11:01 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

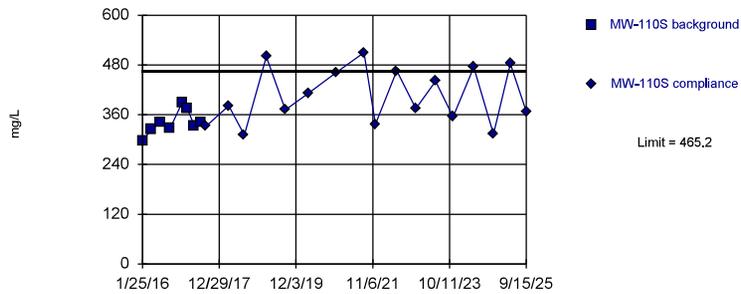


Background Data Summary: Mean=328.5, Std. Dev.=15, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9611, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: TDS Analysis Run 11/20/2025 11:01 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Within Limit

Prediction Limit Intrawell Parametric

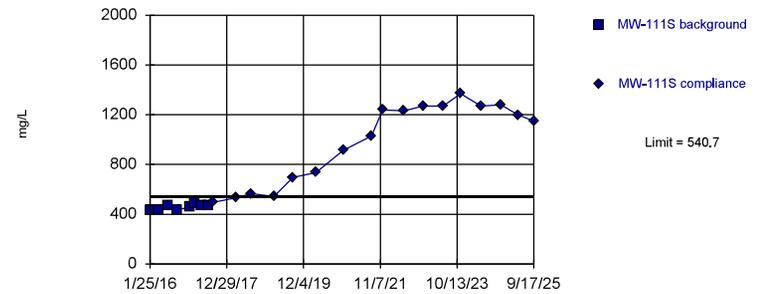


Background Data Summary: Mean=341.5, Std. Dev.=29.32, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9482, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: TDS Analysis Run 11/20/2025 11:01 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Exceeds Limit

Prediction Limit Intrawell Parametric

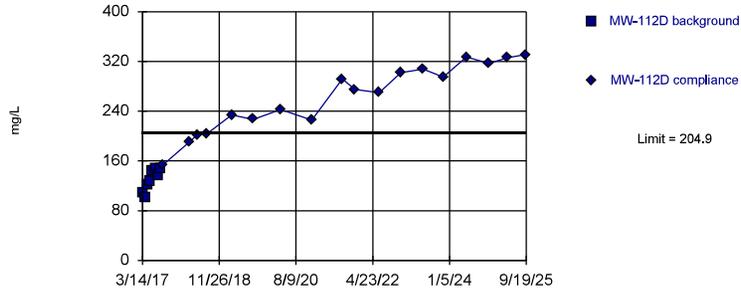


Background Data Summary: Mean=457.4, Std. Dev.=19.76, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.878, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: TDS Analysis Run 11/20/2025 11:01 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

Exceeds Limit

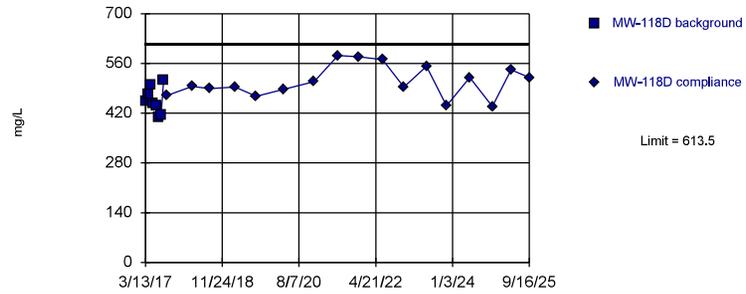
Prediction Limit Intrawell Parametric



Within Limit

Prediction Limit

Intrawell Parametric

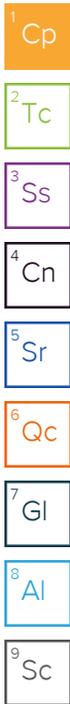


Background Data Summary: Mean=456.9, Std. Dev.=37.12, n=8. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9589, critical = 0.749. Kappa = 4.22 (c=20, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0001549.

Constituent: TDS Analysis Run 11/20/2025 11:01 AM
White Bluff Plant Client: TRC Data: WBLF CCR Database

APPENDIX 4

Analytical Results



Alliance Technical Group - Bryant, AR

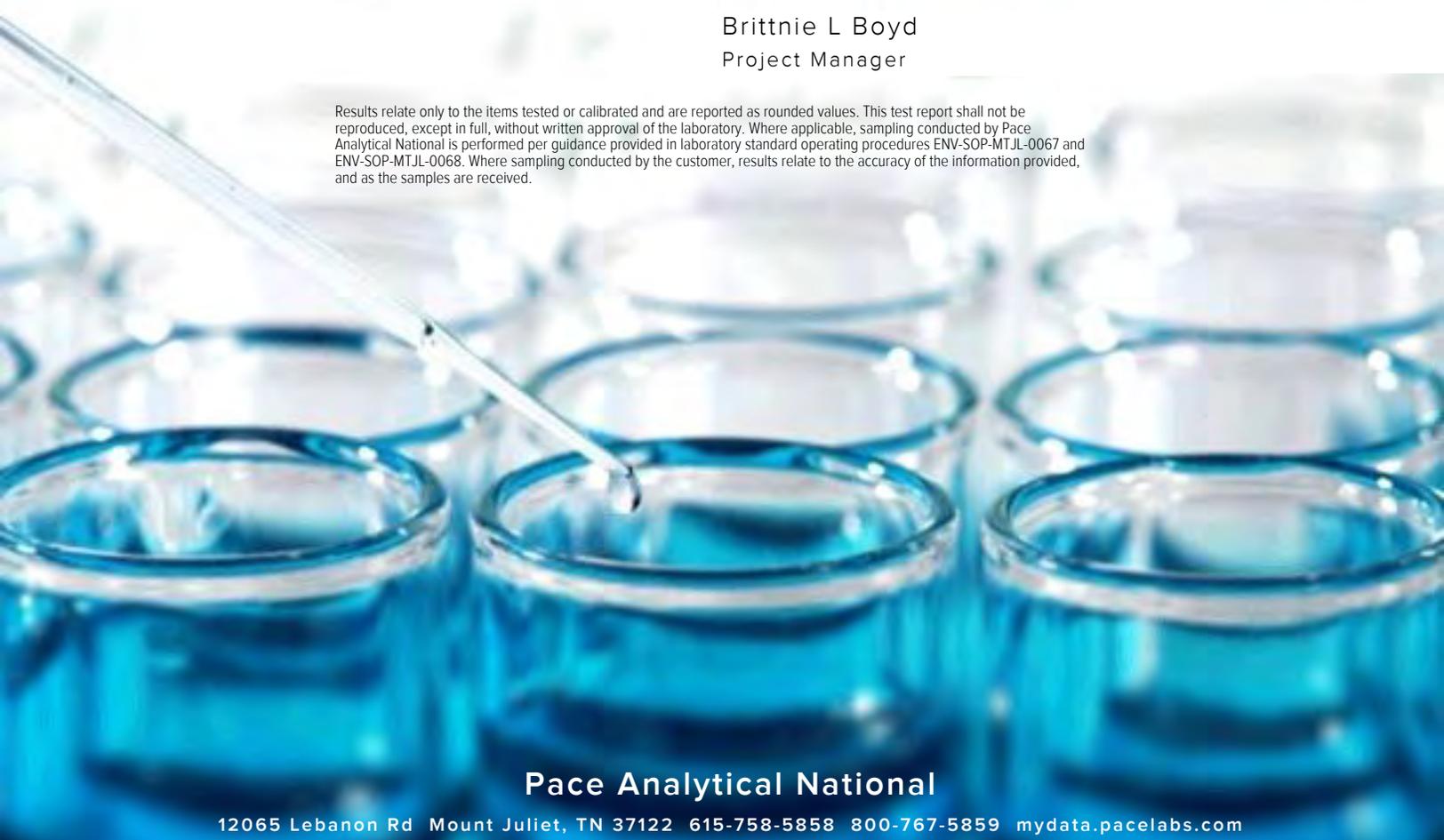
Sample Delivery Group: L1900019
Samples Received: 09/19/2025
Project Number: 1145-21-080
Description: Entergy - White Bluff
Site: CADL - CCR
Report To: Jonathan Brown
219 Brown Lane
Little Rock, AR 72022

Entire Report Reviewed By:



Brittanie L Boyd
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-103S L1900019-01

Collected by
Jacob Colbert

Collected date/time
09/15/25 14:00

Received date/time
09/19/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2604562	1	09/20/25 09:59	09/20/25 14:10	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2604711	1	09/24/25 01:39	09/24/25 01:39	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2605448	1	09/23/25 14:09	09/23/25 18:55	BAG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2605462	1	09/23/25 23:29	10/11/25 15:01	TMT	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

MW-104S L1900019-02

Collected by
Jacob Colbert

Collected date/time
09/16/25 09:55

Received date/time
09/19/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2604970	1	09/20/25 20:50	09/21/25 14:41	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2604711	1	09/24/25 02:07	09/24/25 02:07	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2605448	1	09/23/25 14:09	09/23/25 18:56	BAG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2605462	1	09/23/25 23:29	10/11/25 15:05	TMT	Mt. Juliet, TN

5 Sr

6 Qc

7 Gl

8 Al

MW-110S L1900019-03

Collected by
Jacob Colbert

Collected date/time
09/15/25 11:20

Received date/time
09/19/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2604562	1	09/20/25 09:59	09/20/25 14:10	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2604711	1	09/24/25 03:01	09/24/25 03:01	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2604711	5	09/24/25 03:15	09/24/25 03:15	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2605448	1	09/23/25 14:09	09/23/25 18:58	BAG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2605462	1	09/23/25 23:29	10/11/25 15:08	TMT	Mt. Juliet, TN

9 Sc

MW-102D L1900019-04

Collected by
Jacob Colbert

Collected date/time
09/16/25 12:40

Received date/time
09/19/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2604970	1	09/20/25 20:50	09/21/25 14:41	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2604711	1	09/24/25 03:28	09/24/25 03:28	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2605448	1	09/23/25 14:09	09/23/25 19:03	BAG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2605462	1	09/23/25 23:29	10/11/25 15:19	TMT	Mt. Juliet, TN

MW-103D L1900019-05

Collected by
Jacob Colbert

Collected date/time
09/15/25 13:00

Received date/time
09/19/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2604562	1	09/20/25 09:59	09/20/25 14:10	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2604711	1	09/24/25 03:42	09/24/25 03:42	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2605448	1	09/23/25 14:09	09/23/25 19:05	BAG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2605462	1	09/23/25 23:29	10/11/25 15:22	TMT	Mt. Juliet, TN

MW-104D L1900019-06

Collected by
Jacob Colbert

Collected date/time
09/16/25 10:50

Received date/time
09/19/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2604970	1	09/20/25 20:50	09/21/25 14:41	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2604711	1	09/24/25 03:56	09/24/25 03:56	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2605448	1	09/23/25 14:09	09/23/25 19:07	BAG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2605462	1	09/23/25 23:29	10/11/25 15:26	TMT	Mt. Juliet, TN

SAMPLE SUMMARY

MW-110D L1900019-07

Collected by: Jacob Colbert
 Collected date/time: 09/15/25 12:00
 Received date/time: 09/19/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2604562	1	09/20/25 09:59	09/20/25 14:10	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2604712	1	09/23/25 22:01	09/23/25 22:01	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2605448	1	09/23/25 14:09	09/23/25 19:08	BAG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2605462	1	09/23/25 23:29	10/11/25 15:29	TMT	Mt. Juliet, TN



MW-114D L1900019-08

Collected by: Jacob Colbert
 Collected date/time: 09/16/25 13:55
 Received date/time: 09/19/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2604970	1	09/20/25 20:50	09/21/25 14:41	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2604712	1	09/23/25 22:13	09/23/25 22:13	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2605448	1	09/23/25 14:09	09/23/25 19:10	BAG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2605462	1	09/23/25 23:29	10/11/25 15:32	TMT	Mt. Juliet, TN

MW-118D L1900019-09

Collected by: Jacob Colbert
 Collected date/time: 09/16/25 14:35
 Received date/time: 09/19/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2604970	1	09/20/25 20:50	09/21/25 14:41	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2604712	1	09/23/25 22:26	09/23/25 22:26	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2604712	10	09/23/25 22:38	09/23/25 22:38	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2605448	1	09/23/25 14:09	09/23/25 19:12	BAG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2605462	1	09/23/25 23:29	10/11/25 15:35	TMT	Mt. Juliet, TN

MW-102S L1900019-11

Collected by: Jacob Colbert
 Collected date/time: 09/16/25 11:50
 Received date/time: 09/20/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2605964	1	09/22/25 23:22	09/23/25 14:26	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2604857	1	09/25/25 21:54	09/25/25 21:54	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2605448	1	09/23/25 14:09	09/23/25 19:13	BAG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2605462	1	09/23/25 23:29	10/11/25 15:38	TMT	Mt. Juliet, TN

MW-106S L1900019-12

Collected by: Jacob Colbert
 Collected date/time: 09/17/25 09:30
 Received date/time: 09/20/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2606457	1	09/23/25 08:22	09/24/25 09:15	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2604857	10	09/25/25 22:35	09/25/25 22:35	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2605448	1	09/23/25 14:09	09/23/25 18:46	BAG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2605462	1	09/23/25 23:29	10/11/25 15:42	TMT	Mt. Juliet, TN

MW-111S L1900019-13

Collected by: Jacob Colbert
 Collected date/time: 09/17/25 11:25
 Received date/time: 09/20/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2605924	1	09/22/25 20:30	09/23/25 11:12	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2604857	5	09/25/25 22:55	09/25/25 22:55	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2604857	50	09/25/25 23:05	09/25/25 23:05	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2605448	1	09/23/25 14:09	09/23/25 19:15	BAG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2605462	1	09/23/25 23:29	10/11/25 15:45	TMT	Mt. Juliet, TN

SAMPLE SUMMARY

MW-106D L1900019-14

Collected by: Jacob Colbert
 Collected date/time: 09/17/25 10:10
 Received date/time: 09/20/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2605921	1	09/22/25 20:22	09/23/25 14:16	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2604857	1	09/25/25 23:15	09/25/25 23:15	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2605448	1	09/23/25 14:09	09/23/25 19:17	BAG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2605462	1	09/23/25 23:29	10/11/25 15:55	TMT	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

MW-109D L1900019-15

Collected by: Jacob Colbert
 Collected date/time: 09/17/25 14:00
 Received date/time: 09/20/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2606457	1	09/23/25 08:22	09/24/25 09:15	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2604857	1	09/25/25 23:45	09/25/25 23:45	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2605448	1	09/23/25 14:09	09/23/25 19:19	BAG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2605462	1	09/23/25 23:29	10/11/25 15:58	TMT	Mt. Juliet, TN

5 Sr

6 Qc

7 Gl

8 Al

MW-115D L1900019-16

Collected by: Jacob Colbert
 Collected date/time: 09/17/25 12:50
 Received date/time: 09/20/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2606457	1	09/23/25 08:22	09/24/25 09:15	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2604857	1	09/25/25 23:55	09/25/25 23:55	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2605448	1	09/23/25 14:09	09/23/25 19:24	BAG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2605462	1	09/23/25 23:29	10/11/25 16:01	TMT	Mt. Juliet, TN

9 Sc

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.



Brittnie L Boyd
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	237		10.0	1	09/20/2025 14:10	WG2604562

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	5.29		1.00	1	09/24/2025 01:39	WG2604711
Fluoride	ND		0.150	1	09/24/2025 01:39	WG2604711
Sulfate	85.1		5.00	1	09/24/2025 01:39	WG2604711

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.537		0.200	1	09/23/2025 18:55	WG2605448

6 Qc

7 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	6.91		1.00	1	10/11/2025 15:01	WG2605462

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	234		10.0	1	09/21/2025 14:41	WG2604970

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	4.39		1.00	1	09/24/2025 02:07	WG2604711
Fluoride	ND		0.150	1	09/24/2025 02:07	WG2604711
Sulfate	68.4		5.00	1	09/24/2025 02:07	WG2604711

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.762		0.200	1	09/23/2025 18:56	WG2605448

6 Qc

7 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	14.8		1.00	1	10/11/2025 15:05	WG2605462

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	368		10.0	1	09/20/2025 14:10	WG2604562

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	3.70		1.00	1	09/24/2025 03:01	WG2604711
Fluoride	ND		0.150	1	09/24/2025 03:01	WG2604711
Sulfate	156		25.0	5	09/24/2025 03:15	WG2604711

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	2.15		0.200	1	09/23/2025 18:58	WG2605448

6 Qc

7 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	6.08		1.00	1	10/11/2025 15:08	WG2605462

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	378		10.0	1	09/21/2025 14:41	WG2604970

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	7.28		1.00	1	09/24/2025 03:28	WG2604711
Fluoride	ND		0.150	1	09/24/2025 03:28	WG2604711
Sulfate	22.0		5.00	1	09/24/2025 03:28	WG2604711

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.260		0.200	1	09/23/2025 19:03	WG2605448

6 Qc

7 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	61.1		1.00	1	10/11/2025 15:19	WG2605462

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	479		10.0	1	09/20/2025 14:10	WG2604562

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	6.12		1.00	1	09/24/2025 03:42	WG2604711
Fluoride	ND		0.150	1	09/24/2025 03:42	WG2604711
Sulfate	72.5		5.00	1	09/24/2025 03:42	WG2604711

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.263		0.200	1	09/23/2025 19:05	WG2605448

6 Qc

7 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	61.8		1.00	1	10/11/2025 15:22	WG2605462

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	329		10.0	1	09/21/2025 14:41	WG2604970

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	8.62		1.00	1	09/24/2025 03:56	WG2604711
Fluoride	ND		0.150	1	09/24/2025 03:56	WG2604711
Sulfate	23.7		5.00	1	09/24/2025 03:56	WG2604711

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.230		0.200	1	09/23/2025 19:07	WG2605448

6 Qc

7 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	55.0		1.00	1	10/11/2025 15:26	WG2605462

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	347		10.0	1	09/20/2025 14:10	WG2604562

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	6.71		1.00	1	09/23/2025 22:01	WG2604712
Fluoride	ND		0.150	1	09/23/2025 22:01	WG2604712
Sulfate	39.5		5.00	1	09/23/2025 22:01	WG2604712

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.294		0.200	1	09/23/2025 19:08	WG2605448

6 Qc

7 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	45.6		1.00	1	10/11/2025 15:29	WG2605462

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	322		10.0	1	09/21/2025 14:41	WG2604970

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	7.54		1.00	1	09/23/2025 22:13	WG2604712
Fluoride	ND		0.150	1	09/23/2025 22:13	WG2604712
Sulfate	32.5		5.00	1	09/23/2025 22:13	WG2604712

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.258		0.200	1	09/23/2025 19:10	WG2605448

6 Qc

7 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	51.4		1.00	1	10/11/2025 15:32	WG2605462

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	490		10.0	1	09/21/2025 14:41	WG2604970

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	8.80		1.00	1	09/23/2025 22:26	WG2604712
Fluoride	ND		0.150	1	09/23/2025 22:26	WG2604712
Sulfate	113		50.0	10	09/23/2025 22:38	WG2604712

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.272		0.200	1	09/23/2025 19:12	WG2605448

6 Qc

7 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	80.2		1.00	1	10/11/2025 15:35	WG2605462

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	202		10.0	1	09/23/2025 14:26	WG2605964

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	7.66		1.00	1	09/25/2025 21:54	WG2604857
Fluoride	ND		0.150	1	09/25/2025 21:54	WG2604857
Sulfate	26.3		5.00	1	09/25/2025 21:54	WG2604857

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	09/23/2025 19:13	WG2605448

6 Qc

7 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	14.1		1.00	1	10/11/2025 15:38	WG2605462

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	1230		20.0	1	09/24/2025 09:15	WG2606457

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	13.6		10.0	10	09/25/2025 22:35	WG2604857
Fluoride	ND		1.50	10	09/25/2025 22:35	WG2604857
Sulfate	807		50.0	10	09/25/2025 22:35	WG2604857

Sample Narrative:

L1900019-12 WG2604857: Dilution due to matrix impact on instrumentation at lower dilution

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	7.91		0.200	1	09/23/2025 18:46	WG2605448

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	34.3		1.00	1	10/11/2025 15:42	WG2605462

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	1150		20.0	1	09/23/2025 11:12	WG2605924

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	11.6		5.00	5	09/25/2025 22:55	WG2604857
Fluoride	ND		0.750	5	09/25/2025 22:55	WG2604857
Sulfate	721		250	50	09/25/2025 23:05	WG2604857

Sample Narrative:

L1900019-13 WG2604857: Dilution due to matrix impact on instrumentation at lower dilution

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	6.50		0.200	1	09/23/2025 19:15	WG2605448

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	80.3		1.00	1	10/11/2025 15:45	WG2605462

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	192		10.0	1	09/23/2025 14:16	WG2605921

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	5.26		1.00	1	09/25/2025 23:15	WG2604857
Fluoride	ND		0.150	1	09/25/2025 23:15	WG2604857
Sulfate	12.2		5.00	1	09/25/2025 23:15	WG2604857

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.250		0.200	1	09/23/2025 19:17	WG2605448

6 Qc

7 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	17.3		1.00	1	10/11/2025 15:55	WG2605462

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	367		10.0	1	09/24/2025 09:15	WG2606457

¹ Cp

² Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	6.28		1.00	1	09/25/2025 23:45	WG2604857
Fluoride	ND		0.150	1	09/25/2025 23:45	WG2604857
Sulfate	43.8		5.00	1	09/25/2025 23:45	WG2604857

³ Ss

⁴ Cn

⁵ Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.304		0.200	1	09/23/2025 19:19	WG2605448

⁶ Qc

⁷ Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	47.7		1.00	1	10/11/2025 15:58	WG2605462

⁸ Al

⁹ Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	333		10.0	1	09/24/2025 09:15	WG2606457

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	4.60		1.00	1	09/25/2025 23:55	WG2604857
Fluoride	ND		0.150	1	09/25/2025 23:55	WG2604857
Sulfate	ND		5.00	1	09/25/2025 23:55	WG2604857

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.324		0.200	1	09/23/2025 19:24	WG2605448

6 Qc

7 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	43.0		1.00	1	10/11/2025 16:01	WG2605462

8 Al

9 Sc

Method Blank (MB)

(MB) R4276737-1 09/20/25 14:10

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	U		10.0	10.0

¹Cp

²Tc

³Ss

L1898950-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1898950-10 09/20/25 14:10 • (DUP) R4276737-3 09/20/25 14:10

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	425	421	1	0.946		10

⁴Cn

⁵Sr

L1900019-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1900019-07 09/20/25 14:10 • (DUP) R4276737-4 09/20/25 14:10

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	347	354	1	2.00		10

⁶Qc

⁷Gl

⁸Al

Laboratory Control Sample (LCS)

(LCS) R4276737-2 09/20/25 14:10

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8800	100	90.0-110	

⁹Sc

Method Blank (MB)

(MB) R4277214-1 09/21/25 14:41

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	U		10.0	10.0

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1899360-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1899360-04 09/21/25 14:41 • (DUP) R4277214-3 09/21/25 14:41

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	505	496	1	1.80		10

L1900223-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1900223-02 09/21/25 14:41 • (DUP) R4277214-4 09/21/25 14:41

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	212	210	1	0.948		10

Laboratory Control Sample (LCS)

(LCS) R4277214-2 09/21/25 14:41

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8630	98.1	90.0-110	

Method Blank (MB)

(MB) R4277881-1 09/23/25 14:16

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	U		10.0	10.0

¹Cp

²Tc

³Ss

L1899911-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1899911-11 09/23/25 14:16 • (DUP) R4277881-3 09/23/25 14:16

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	4270	4320	1	1.17		10

⁴Cn

⁵Sr

L1900420-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1900420-03 09/23/25 14:16 • (DUP) R4277881-4 09/23/25 14:16

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	ND	ND	1	0.000		10

⁶Qc

⁷Gl

⁸Al

Laboratory Control Sample (LCS)

(LCS) R4277881-2 09/23/25 14:16

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8880	101	90.0-110	

⁹Sc

Method Blank (MB)

(MB) R4277842-1 09/23/25 11:12

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	U		10.0	10.0

1 Cp

2 Tc

3 Ss

L1899911-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1899911-01 09/23/25 11:12 • (DUP) R4277842-3 09/23/25 11:12

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	2010	2060	1	2.46		10

4 Cn

5 Sr

L1900359-18 Original Sample (OS) • Duplicate (DUP)

(OS) L1900359-18 09/23/25 11:12 • (DUP) R4277842-4 09/23/25 11:12

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	ND	ND	1	0.000		10

6 Qc

7 Gl

8 Al

Laboratory Control Sample (LCS)

(LCS) R4277842-2 09/23/25 11:12

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8890	101	90.0-110	

9 Sc

Method Blank (MB)

(MB) R4278211-1 09/23/25 14:26

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

¹Cp

²Tc

³Ss

L1899983-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1899983-01 09/23/25 14:26 • (DUP) R4278211-3 09/23/25 14:26

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	137	141	1	2.88		10

⁴Cn

⁵Sr

L1900412-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1900412-03 09/23/25 14:26 • (DUP) R4278211-4 09/23/25 14:26

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	230	232	1	0.866		10

⁶Qc

⁷Gl

⁸Al

Laboratory Control Sample (LCS)

(LCS) R4278211-2 09/23/25 14:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8670	98.5	90.0-110	

⁹Sc

Method Blank (MB)

(MB) R4278334-1 09/24/25 09:15

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	U		10.0	10.0

¹Cp

²Tc

³Ss

L1900019-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1900019-12 09/24/25 09:15 • (DUP) R4278334-3 09/24/25 09:15

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	1230	1210	1	1.48		10

⁴Cn

⁵Sr

L1900332-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1900332-04 09/24/25 09:15 • (DUP) R4278334-4 09/24/25 09:15

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	1100	1090	1	1.09		10

⁶Qc

⁷Gl

⁸Al

Laboratory Control Sample (LCS)

(LCS) R4278334-2 09/24/25 09:15

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8570	97.4	90.0-110	

⁹Sc

Method Blank (MB)

(MB) R4278226-1 09/23/25 19:02

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Chloride	U		0.547	1.00
Fluoride	U		0.0761	0.150
Sulfate	U		0.637	5.00

L1899991-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1899991-03 09/23/25 19:29 • (DUP) R4278226-3 09/23/25 19:43

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Fluoride	1.75	1.78	1	1.70		15
Sulfate	59.6	60.7	1	1.90		15

L1899991-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1899991-03 09/23/25 20:23 • (DUP) R4278226-6 09/23/25 20:37

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	213	209	5	1.84		15

L1899991-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1899991-04 09/23/25 20:50 • (DUP) R4278226-7 09/23/25 21:04

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Fluoride	1.54	0.426	1	113	J3	15
Sulfate	24.2	24.5	1	0.964		15

L1899991-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1899991-04 09/23/25 21:31 • (DUP) R4278226-9 09/23/25 21:45

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	203	202	5	0.303		15

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4278226-2 09/23/25 19:15

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Chloride	40.0	36.7	91.6	80.0-120	
Fluoride	8.00	7.42	92.8	80.0-120	
Sulfate	40.0	36.6	91.4	80.0-120	

L1899991-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1899991-03 09/23/25 19:29 • (MS) R4278226-4 09/23/25 19:56 • (MSD) R4278226-5 09/23/25 20:10

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Chloride	40.0	209	210	206	4.31	0.000	1	80.0-120	<u>EV</u>	<u>EV</u>	2.03	15
Fluoride	8.00	1.75	9.18	9.00	92.8	90.6	1	80.0-120			1.97	15
Sulfate	40.0	59.6	87.6	85.7	70.2	65.5	1	80.0-120	<u>J6</u>	<u>J6</u>	2.16	15

L1899991-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L1899991-04 09/23/25 20:50 • (MS) R4278226-8 09/23/25 21:18

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Chloride	40.0	205	204	0.000	1	80.0-120	<u>EV</u>
Fluoride	8.00	1.54	6.89	67.0	1	80.0-120	<u>J6</u>
Sulfate	40.0	24.2	58.1	84.7	1	80.0-120	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4278333-1 09/23/25 20:58

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Chloride	U		0.547	1.00
Fluoride	U		0.0761	0.150
Sulfate	U		0.637	5.00

L1899979-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1899979-01 09/23/25 21:24 • (DUP) R4278333-3 09/23/25 21:36

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	2.74	2.72	1	0.557		15
Fluoride	ND	ND	1	0.000		15
Sulfate	ND	ND	1	0.573		15

L1900111-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1900111-02 09/24/25 00:43 • (DUP) R4278333-5 09/24/25 00:56

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	323	326	50	0.950		15
Fluoride	ND	ND	50	0.203		15
Sulfate	687	685	50	0.329		15

Laboratory Control Sample (LCS)

(LCS) R4278333-2 09/23/25 21:11

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Chloride	40.0	35.9	89.8	80.0-120	
Fluoride	8.00	7.44	93.0	80.0-120	
Sulfate	40.0	36.2	90.5	80.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1899979-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1899979-01 09/23/25 21:24 • (MS) R4278333-4 09/23/25 21:48

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Chloride	40.0	2.74	42.0	98.1	1	80.0-120	
Fluoride	8.00	ND	8.28	104	1	80.0-120	
Sulfate	40.0	ND	39.9	97.6	1	80.0-120	

L1900111-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1900111-02 09/24/25 00:43 • (MS) R4278333-6 09/24/25 01:08 • (MSD) R4278333-7 09/24/25 01:21

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Chloride	40.0	323	295	291	0.000	0.000	50	80.0-120	<u>V</u>	<u>V</u>	1.10	15
Fluoride	8.00	ND	ND	ND	40.3	38.9	50	80.0-120	<u>J6</u>	<u>J6</u>	1.52	15
Sulfate	40.0	687	578	575	0.000	0.000	50	80.0-120	<u>V</u>	<u>V</u>	0.486	15

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R4279197-1 09/25/25 21:32

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Chloride	U		0.547	1.00
Fluoride	U		0.0761	0.150
Sulfate	U		0.637	5.00

L1900019-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1900019-11 09/25/25 21:54 • (DUP) R4279197-3 09/25/25 22:04

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	7.66	7.67	1	0.0287		15
Fluoride	ND	ND	1	0.000		15
Sulfate	26.3	26.5	1	0.655		15

L1900019-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1900019-14 09/25/25 23:15 • (DUP) R4279197-6 09/25/25 23:25

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	5.26	5.22	1	0.889		15
Fluoride	ND	ND	1	0.000		15
Sulfate	12.2	12.2	1	0.0516		15

Laboratory Control Sample (LCS)

(LCS) R4279197-2 09/25/25 21:43

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Chloride	40.0	39.3	98.4	80.0-120	
Fluoride	8.00	7.90	98.7	80.0-120	
Sulfate	40.0	39.9	99.7	80.0-120	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1900019-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1900019-11 09/25/25 21:54 • (MS) R4279197-4 09/25/25 22:14 • (MSD) R4279197-5 09/25/25 22:24

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	7.66	45.6	45.7	94.9	95.1	1	80.0-120			0.144	15
Fluoride	8.00	ND	7.97	7.98	99.7	99.8	1	80.0-120			0.0740	15
Sulfate	40.0	26.3	61.0	61.1	86.8	87.0	1	80.0-120			0.156	15

L1900019-14 Original Sample (OS) • Matrix Spike (MS)

(OS) L1900019-14 09/25/25 23:15 • (MS) R4279197-7 09/25/25 23:35

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	5.26	44.0	97.0	1	80.0-120	
Fluoride	8.00	ND	8.03	100	1	80.0-120	
Sulfate	40.0	12.2	49.9	94.2	1	80.0-120	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4277547-1 09/23/25 18:43

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron	U		0.0233	0.200

¹Cp

²Tc

³Ss

Laboratory Control Sample (LCS)

(LCS) R4277547-2 09/23/25 18:44

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	0.925	92.5	80.0-120	

⁴Cn

⁵Sr

L1900019-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1900019-12 09/23/25 18:46 • (MS) R4277547-4 09/23/25 18:49 • (MSD) R4277547-5 09/23/25 18:51

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron	1.00	7.91	8.68	8.68	77.6	76.9	1	75.0-125			0.0903	20

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4285702-1 10/11/25 14:39

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Calcium	U		0.0925	1.00

¹Cp

²Tc

³Ss

Laboratory Control Sample (LCS)

(LCS) R4285702-2 10/11/25 14:42

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Calcium	5.00	5.42	108	80.0-120	

⁴Cn

⁵Sr

L1900176-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1900176-01 10/11/25 14:46 • (MS) R4285702-4 10/11/25 14:52 • (MSD) R4285702-5 10/11/25 14:55

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Calcium	5.00	100	106	105	107	103	1	75.0-125			0.203	20

⁶Qc

⁷Gl

⁸Al

⁹Sc

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
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Company Name/Address:
Alliance Technical Group - Bryant, AR
 219 Brown Lane
 Little Rock, AR 72022

Billing Information:
 Accounts Payable
 219 Brown Ln.
 Bryant, AR 72022

Report to:
Jonathan Brown 501-847-7077

Email To:
Jonathan.Brown@AllianceTG.com; jhouse@trcc

Project Description:
Entergy - White Bluff

City/State Collected:

Please Circle:
 PT MT CT ET

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

Client Project #
1145-21-080

Lab Project #
GBMCBAR-ENTERGYWB

Collected by (print):
Jacob Colbert

Site/Facility ID #
CADL - CCR

P.O. #

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

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	B, Ca 250mlHDPE-HNO3	Cl, F, SO4 250mlHDPE-NoPres	TDS 1L-HDPE NoPres						
MW-103D	G	GW	-	9/15/25	1300	3	✓	✓	✓						
MW-104D	G	GW	-	9/16/25	1050	3	✓	✓	✓						
MW-105D		GW													
MW-106D	G	GW	-	9/17/25	1010	3	✓	✓	✓						
MW-107D		GW													
MW-108D		GW													
MW-109D	G	GW	-	9/17/25	1400	3	✓	✓	✓						
MW-110D	G	GW	-	9/15/25	1200	3	✓	✓	✓						
MW-112D		GW													
MW-113D		GW													

* 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 # **4746 8276 1071**

Sample Receipt Checklist
 COC Seal Present/Intact: 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)
Manuela Duran

Date: **1038** Time: **9/18/25**

Received by: (Signature)
Fedex

Trip Blank Received: Yes/No
 HCL/MeOH
 TBR
 Temp: **16.95** °C
 Bottles Received: **0.1 = 4.9**

If preservation required by Login: Date/Time
 Date: **9/20/25** Time: **9:30**
 Condition: **NCF / OK**

Analysis / Container / Preservative											

Chain of Custody Page ___ of ___

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/hubs/pas-standard-terms.pdf>

SDG # **1900019**
 Table #
 Acctnum: **GBMCBAR**
 Template: **T198831**
 Prelogin: **P1175847**
 PM: **829 - Brittne L Boyd**
 PB:
 Shipped Via: **FedEX Priority**
 Remarks Sample # (lab only)
8.15 -09
7.22 -06
9.12 -14
7.11 -15
8.01 -07

Company Name/Address: Alliance Technical Group - Bryant, AR 219 Brown Lane Little Rock, AR 72022		Billing Information: Accounts Payable 219 Brown Ln. Bryant, AR 72022	Pres Chk	Analysis / Container / Preservative					Chain of Custody Page ___ of ___
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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>

Report to: Jonathan Brown 501-847-7077	Email To: Jonathan.Brown@AllianceTG.com;Jhouse@trcc
--	---

Project Description: Entergy - White Bluff	City/State Collected:	Please Circle: PT MT CT ET
--	-----------------------	-------------------------------

Regulatory Program(DOD,RCRA,DW,etc):	Client Project # 1145-21-080	Lab Project # GBMCBAR-ENERGYWB
--------------------------------------	--	--

Collected by (print): <i>Jacob Colbert</i>	Site/Facility ID # CADL - CCR	P.O. #
---	---	--------

Collected by (signature):	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
---------------------------	---	---------	---------------------

Immediately Packed on Ice N ___ Y <input checked="" type="checkbox"/>	No. of Cntrs
---	--------------

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Analysis / Container / Preservative			Remarks	Sample # (lab only)	
MW-114D	G	GW	-	9/16/25	1355	3	✓	✓	✓	7.40	-08
MW-115D	G	GW	-	9/17/25	1250	3	✓	✓	✓	7.44	-16
MW-118D	G	GW	-	9/16/25	1435	3	✓	✓	✓	6.69	-09
FIELD BLANK 1		GW									
DUPLICATE 1		GW									
FIELD BLANK 2		GW									
DUPLICATE 2		GW									

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

Remarks:	pH _____ Temp _____
Samples returned via: ___ UPS ___ FedEx ___ Courier	Flow _____ Other _____
Tracking # 4746 8276 1971	

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

Relinquished by: (Signature) <i>Maniela Duran</i>	Date: 9/18/25	Time: 1038	Received by: (Signature) <i>Fedex</i>	Trip Blank Received: Yes / No HCL / MeOH TBR
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: <i>TL195.0-0.1-24.9 18</i>
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <i>[Signature]</i>	Date: 9/20/25
				Time: 9:30
			Hold:	Condition: NCF / <input checked="" type="checkbox"/> OK

Alliance Technical Group - Bryant, AR

Sample Delivery Group: L1900762
Samples Received: 09/23/2025
Project Number: 1145-21-080
Description: Entergy - White Bluff
Site: CADL - CCR
Report To: Jonathan Brown
219 Brown Lane
Little Rock, AR 72022

Entire Report Reviewed By:



Brittnie L Boyd
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.

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SAMPLE SUMMARY

MW-101S L1900762-01

Collected by: Jacob C
 Collected date/time: 09/18/25 11:40
 Received date/time: 09/23/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2606639	1	09/23/25 17:47	09/24/25 14:14	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2606936	1	09/26/25 00:05	09/26/25 00:05	AJC	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2606869	1	09/24/25 09:03	09/24/25 14:32	NMM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2607284	1	09/25/25 00:52	09/28/25 21:18	LD	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

MW-105S L1900762-02

Collected by: Jacob C
 Collected date/time: 09/19/25 13:40
 Received date/time: 09/23/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2606639	1	09/23/25 17:47	09/24/25 14:14	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2606936	1	09/26/25 00:59	09/26/25 00:59	AJC	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2606869	1	09/24/25 09:03	09/24/25 14:39	NMM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2607284	1	09/25/25 00:52	09/28/25 20:58	LD	Mt. Juliet, TN

MW-101D L1900762-03

Collected by: Jacob C
 Collected date/time: 09/18/25 10:20
 Received date/time: 09/23/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2606639	1	09/23/25 17:47	09/24/25 14:14	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2606936	1	09/26/25 01:40	09/26/25 01:40	AJC	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2606869	1	09/24/25 09:03	09/24/25 14:40	NMM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2607284	1	09/25/25 00:52	09/28/25 21:21	LD	Mt. Juliet, TN

MW-105D L1900762-04

Collected by: Jacob C
 Collected date/time: 09/19/25 12:50
 Received date/time: 09/23/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2606639	1	09/23/25 17:47	09/24/25 14:14	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2606936	1	09/26/25 02:07	09/26/25 02:07	AJC	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2606869	1	09/24/25 09:03	09/24/25 14:42	NMM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2607284	1	09/25/25 00:52	09/28/25 21:32	LD	Mt. Juliet, TN

MW-107D L1900762-05

Collected by: Jacob C
 Collected date/time: 09/19/25 11:50
 Received date/time: 09/23/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2606639	1	09/23/25 17:47	09/24/25 14:14	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2606936	1	09/26/25 02:21	09/26/25 02:21	AJC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2606936	10	09/26/25 02:34	09/26/25 02:34	AJC	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2606869	1	09/24/25 09:03	09/24/25 14:44	NMM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2607284	1	09/25/25 00:52	09/28/25 21:36	LD	Mt. Juliet, TN

MW-108D L1900762-06

Collected by: Jacob C
 Collected date/time: 09/19/25 09:45
 Received date/time: 09/23/25 08:45

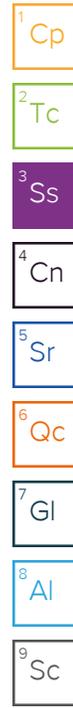
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2606639	1	09/23/25 17:47	09/24/25 14:14	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2606936	1	09/26/25 02:48	09/26/25 02:48	AJC	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2606869	1	09/24/25 09:03	09/24/25 14:49	NMM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2607284	1	09/25/25 00:52	09/28/25 21:39	LD	Mt. Juliet, TN

SAMPLE SUMMARY

MW-112D L1900762-07

Collected by: Jacob C
 Collected date/time: 09/19/25 10:45
 Received date/time: 09/23/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2606639	1	09/23/25 17:47	09/24/25 14:14	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2606936	1	09/26/25 03:02	09/26/25 03:02	AJC	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2606869	1	09/24/25 09:03	09/24/25 14:50	NMM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2607284	1	09/25/25 00:52	09/28/25 21:42	LD	Mt. Juliet, TN



MW-113D L1900762-08

Collected by: Jacob C
 Collected date/time: 09/19/25 08:45
 Received date/time: 09/23/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2606639	1	09/23/25 17:47	09/24/25 14:14	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2606936	5	09/26/25 03:15	09/26/25 03:15	AJC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2606936	50	09/26/25 03:56	09/26/25 03:56	AJC	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2606869	1	09/24/25 09:03	09/24/25 14:52	NMM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2607284	1	09/25/25 00:52	09/28/25 21:46	LD	Mt. Juliet, TN

FIELD BLANK 1 L1900762-09

Collected by: Jacob C
 Collected date/time: 09/19/25 13:10
 Received date/time: 09/23/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2606639	1	09/23/25 17:47	09/24/25 14:14	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2606936	1	09/26/25 04:09	09/26/25 04:09	AJC	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2606869	1	09/24/25 09:03	09/24/25 14:54	NMM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2607284	1	09/25/25 00:52	09/28/25 21:49	LD	Mt. Juliet, TN

DUPLICATE 1 L1900762-10

Collected by: Jacob C
 Collected date/time: 09/18/25 10:20
 Received date/time: 09/23/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2606639	1	09/23/25 17:47	09/24/25 14:14	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2606936	1	09/26/25 04:23	09/26/25 04:23	AJC	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2606869	1	09/24/25 09:03	09/24/25 14:55	NMM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2607284	1	09/25/25 00:52	09/28/25 21:52	LD	Mt. Juliet, TN

FIELD BLANK 2 L1900762-11

Collected by: Jacob C
 Collected date/time: 09/19/25 13:10
 Received date/time: 09/23/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2606475	1	09/23/25 21:41	09/24/25 10:42	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2606936	1	09/26/25 04:50	09/26/25 04:50	AJC	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2606869	1	09/24/25 09:03	09/24/25 14:57	NMM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2607284	1	09/25/25 00:52	09/28/25 21:56	LD	Mt. Juliet, TN

DUPLICATE 2 L1900762-12

Collected by: Jacob C
 Collected date/time: 09/18/25 11:40
 Received date/time: 09/23/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2606475	1	09/23/25 21:41	09/24/25 10:42	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2606936	1	09/26/25 05:04	09/26/25 05:04	AJC	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2606869	1	09/24/25 09:03	09/24/25 14:59	NMM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2607284	1	09/25/25 00:52	09/28/25 21:59	LD	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.



Brittnie L Boyd
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	212		10.0	1	09/24/2025 14:14	WG2606639

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	7.49		1.00	1	09/26/2025 00:05	WG2606936
Fluoride	ND		0.150	1	09/26/2025 00:05	WG2606936
Sulfate	50.8	J6	5.00	1	09/26/2025 00:05	WG2606936

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	09/24/2025 14:32	WG2606869

6 Qc

7 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	15.1		1.00	1	09/28/2025 21:18	WG2607284

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	202		10.0	1	09/24/2025 14:14	WG2606639

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	5.18		1.00	1	09/26/2025 00:59	WG2606936
Fluoride	ND		0.150	1	09/26/2025 00:59	WG2606936
Sulfate	30.8		5.00	1	09/26/2025 00:59	WG2606936

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	09/24/2025 14:39	WG2606869

6 Qc

7 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	17.0		1.00	1	09/28/2025 20:58	WG2607284

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	363		10.0	1	09/24/2025 14:14	WG2606639

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	6.20		1.00	1	09/26/2025 01:40	WG2606936
Fluoride	ND		0.150	1	09/26/2025 01:40	WG2606936
Sulfate	81.4		5.00	1	09/26/2025 01:40	WG2606936

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	09/24/2025 14:40	WG2606869

6 Qc

7 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	54.1		1.00	1	09/28/2025 21:21	WG2607284

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	346		10.0	1	09/24/2025 14:14	WG2606639

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	8.39		1.00	1	09/26/2025 02:07	WG2606936
Fluoride	ND		0.150	1	09/26/2025 02:07	WG2606936
Sulfate	28.7		5.00	1	09/26/2025 02:07	WG2606936

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.273		0.200	1	09/24/2025 14:42	WG2606869

6 Qc

7 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	55.1		1.00	1	09/28/2025 21:32	WG2607284

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	514		10.0	1	09/24/2025 14:14	WG2606639

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	20.7		1.00	1	09/26/2025 02:21	WG2606936
Fluoride	ND		0.150	1	09/26/2025 02:21	WG2606936
Sulfate	113		50.0	10	09/26/2025 02:34	WG2606936

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.310		0.200	1	09/24/2025 14:44	WG2606869

6 Qc

7 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	74.0		1.00	1	09/28/2025 21:36	WG2607284

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	490		10.0	1	09/24/2025 14:14	WG2606639

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	12.5		1.00	1	09/26/2025 02:48	WG2606936
Fluoride	ND		0.150	1	09/26/2025 02:48	WG2606936
Sulfate	47.7		5.00	1	09/26/2025 02:48	WG2606936

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.334		0.200	1	09/24/2025 14:49	WG2606869

6 Qc

7 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	66.1		1.00	1	09/28/2025 21:39	WG2607284

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	331		10.0	1	09/24/2025 14:14	WG2606639

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	6.90		1.00	1	09/26/2025 03:02	WG2606936
Fluoride	ND		0.150	1	09/26/2025 03:02	WG2606936
Sulfate	5.83		5.00	1	09/26/2025 03:02	WG2606936

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.277		0.200	1	09/24/2025 14:50	WG2606869

6 Qc

7 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	42.8		1.00	1	09/28/2025 21:42	WG2607284

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	1200		20.0	1	09/24/2025 14:14	WG2606639

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	13.3		5.00	5	09/26/2025 03:15	WG2606936
Fluoride	ND		0.750	5	09/26/2025 03:15	WG2606936
Sulfate	583		250	50	09/26/2025 03:56	WG2606936

Sample Narrative:

L1900762-08 WG2606936: Dilution due to matrix impact on instrumentation at lower dilution

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.493		0.200	1	09/24/2025 14:52	WG2606869

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	191		1.00	1	09/28/2025 21:46	WG2607284

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	ND		10.0	1	09/24/2025 14:14	WG2606639

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	ND		1.00	1	09/26/2025 04:09	WG2606936
Fluoride	ND		0.150	1	09/26/2025 04:09	WG2606936
Sulfate	ND		5.00	1	09/26/2025 04:09	WG2606936

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	09/24/2025 14:54	WG2606869

6 Qc

7 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	ND		1.00	1	09/28/2025 21:49	WG2607284

8 Al

9 Sc

DUPLICATE 1

Collected date/time: 09/18/25 10:20

SAMPLE RESULTS - 10

L1900762

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	366		10.0	1	09/24/2025 14:14	WG2606639

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	6.12		1.00	1	09/26/2025 04:23	WG2606936
Fluoride	ND		0.150	1	09/26/2025 04:23	WG2606936
Sulfate	80.3		5.00	1	09/26/2025 04:23	WG2606936

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	09/24/2025 14:55	WG2606869

6 Qc

7 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	53.4		1.00	1	09/28/2025 21:52	WG2607284

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	ND		10.0	1	09/24/2025 10:42	WG2606475

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	ND		1.00	1	09/26/2025 04:50	WG2606936
Fluoride	ND		0.150	1	09/26/2025 04:50	WG2606936
Sulfate	ND		5.00	1	09/26/2025 04:50	WG2606936

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	09/24/2025 14:57	WG2606869

6 Qc

7 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	ND		1.00	1	09/28/2025 21:56	WG2607284

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	210		10.0	1	09/24/2025 10:42	WG2606475

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	7.70		1.00	1	09/26/2025 05:04	WG2606936
Fluoride	ND		0.150	1	09/26/2025 05:04	WG2606936
Sulfate	49.1		5.00	1	09/26/2025 05:04	WG2606936

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	09/24/2025 14:59	WG2606869

6 Qc

7 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	15.2		1.00	1	09/28/2025 21:59	WG2607284

8 Al

9 Sc

Method Blank (MB)

(MB) R4278437-1 09/24/25 10:42

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	U		10.0	10.0

¹Cp

²Tc

³Ss

L1900257-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1900257-01 09/24/25 10:42 • (DUP) R4278437-3 09/24/25 10:42

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	1960	1980	1	0.762		10

⁴Cn

⁵Sr

L1900762-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1900762-12 09/24/25 10:42 • (DUP) R4278437-4 09/24/25 10:42

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	210	214	1	1.89		10

⁶Qc

⁷Gl

⁸Al

Laboratory Control Sample (LCS)

(LCS) R4278437-2 09/24/25 10:42

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8730	99.2	90.0-110	

⁹Sc

Method Blank (MB)

(MB) R4278412-1 09/24/25 14:14

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	U		10.0	10.0

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1900661-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1900661-01 09/24/25 14:14 • (DUP) R4278412-3 09/24/25 14:14

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	1970	1980	1	0.507		10

L1900762-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1900762-10 09/24/25 14:14 • (DUP) R4278412-4 09/24/25 14:14

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	366	373	1	1.89		10

Laboratory Control Sample (LCS)

(LCS) R4278412-2 09/24/25 14:14

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8610	97.8	90.0-110	

Method Blank (MB)

(MB) R4279715-1 09/25/25 23:39

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Chloride	U		0.547	1.00
Fluoride	U		0.0761	0.150
Sulfate	U		0.637	5.00

L1900762-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1900762-01 09/26/25 00:05 • (DUP) R4279715-3 09/26/25 00:18

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	7.49	7.49	1	0.0334		15
Fluoride	ND	ND	1	0.000		15
Sulfate	50.8	51.3	1	1.12		15

L1900762-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1900762-02 09/26/25 00:59 • (DUP) R4279715-6 09/26/25 01:13

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	5.18	5.21	1	0.489		15
Fluoride	ND	ND	1	0.000		15
Sulfate	30.8	29.3	1	4.74		15

Laboratory Control Sample (LCS)

(LCS) R4279715-2 09/25/25 23:51

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Chloride	40.0	38.9	97.2	80.0-120	
Fluoride	8.00	7.99	99.9	80.0-120	
Sulfate	40.0	39.7	99.2	80.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1900762-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1900762-01 09/26/25 00:05 • (MS) R4279715-4 09/26/25 00:32 • (MSD) R4279715-5 09/26/25 00:46

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	7.49	45.7	46.2	95.4	96.8	1	80.0-120			1.23	15
Fluoride	8.00	ND	8.16	8.26	102	103	1	80.0-120			1.15	15
Sulfate	40.0	50.8	81.0	81.9	75.7	78.0	1	80.0-120	J6	J6	1.12	15

L1900762-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1900762-02 09/26/25 00:59 • (MS) R4279715-7 09/26/25 01:26

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	5.18	44.8	99.0	1	80.0-120	
Fluoride	8.00	ND	8.22	103	1	80.0-120	
Sulfate	40.0	30.8	64.4	84.2	1	80.0-120	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4278112-1 09/24/25 14:29

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron	U		0.0233	0.200

¹Cp

²Tc

³Ss

Laboratory Control Sample (LCS)

(LCS) R4278112-2 09/24/25 14:30

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	0.960	96.0	80.0-120	

⁴Cn

⁵Sr

L1900762-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1900762-01 09/24/25 14:32 • (MS) R4278112-4 09/24/25 14:35 • (MSD) R4278112-5 09/24/25 14:37

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron	1.00	ND	0.961	0.963	93.0	93.2	1	75.0-125			0.223	20

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4279532-1 09/28/25 20:51

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Calcium	U		0.0925	1.00

Laboratory Control Sample (LCS)

(LCS) R4279532-2 09/28/25 20:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Calcium	5.00	5.19	104	80.0-120	

L1900762-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1900762-02 09/28/25 20:58 • (MS) R4279532-4 09/28/25 21:05 • (MSD) R4279532-5 09/28/25 21:08

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Calcium	5.00	17.0	22.5	21.4	110	88.1	1	75.0-125			5.05	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.

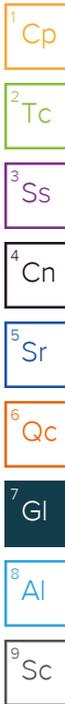
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

Abbreviations and Definitions

MDL	Method Detection Limit.
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

J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
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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.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Company Name/Address:
Alliance Technical Group - Bryant, AR
 219 Brown Lane
 Little Rock, AR 72022

Billing Information:
 Accounts Payable
 219 Brown Ln.
 Bryant, AR 72022

Report to:
Jonathan Brown 501-847-7077

Email To:
 Jonathan.Brown@AllianceTG.com; jhouse@trcc

Project Description:
Energy - White Bluff

City/State Collected:
Redfield, AR

Please Circle:
 PT MT ET

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

Client Project #
1145-21-080

Lab Project #
GBMCBAR-ENTERGYWB

Collected by (print):
Jacob Colbert

Site/Facility ID #
CADL - CCR

P.O. #

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

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	B, Ca 250mlHDPE-HNO3	Cl, F, SO4 250mlHDPE-NoPres	TDS 1L-HDPE NoPres						
MW-103D		GW													
MW-104D		GW													
MW-105D	G	GW		9-19-25	1250	3	X	X	X						
MW-106D		GW													
MW-107D	G	GW		9-19-25	1150	3	X	X	X						
MW-108D	G	GW		9-19-25	0945	3	X	X	X						
MW-109D		GW													
MW-110D		GW													
MW-112D	G	GW		9-19-25	1045	3	X	X	X						
MW-113D	G	GW		9-19-25	0845	3	X	X	X						

Analysis / Container / Preservative										
27										

Chain of Custody Page ___ of ___



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/hubs/pac-standard-terms.pdf>

SDG # **U90676**

Table #

Acctnum: **GBMCBAR**

Template: **T198831**

Prelogjn: **P1175847**

PM: **829 - Brittnie L Boyd**

PB: **09/03/2506**

Shipped Via: **FedEX Priority**

Remarks | Sample # (lab only)

pH	
6.96	
6.96	04
6.89	05
6.64	06
7.74	07
6.11	08

* 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 # **mu171**

Sample Receipt Checklist
 COC Seal Present/Intact: 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) Jacob Colbert	Date: 9-22-25	Time: 0940	Received by: (Signature)	Trip Blank Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C 36 Bottles Received: 36
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) [Signature]	Date: 9-23-25 Time: 0845 Hold: Condition: NCF / OK

Company Name/Address: Alliance Technical Group - Bryant, AR 219 Brown Lane Little Rock, AR 72022		Billing Information: Accounts Payable 219 Brown Ln. Bryant, AR 72022		Pres Chk	Analysis / Container / Preservative								Chain of Custody Page ___ of ___
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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/hubs/pas-standard-terms.pdf>

Report to: Jonathan Brown 501-847-7077		Email To: Jonathan.Brown@AllianceTG.com; jhouse@trcc	
Project Description: Entergy - White Bluff		City/State Collected: Redfield AR	Please Circle: PT MT <input checked="" type="checkbox"/> ET

Regulatory Program(DOD, RCRA, DW, etc):	Client Project # 1145-21-080	Lab Project # GBMCBAR-ENTERGYWB
Collected by (print): Jacob Colbert	Site/Facility ID # CADL - CCR	P.O. #
Collected by (signature):	Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day <input type="checkbox"/> STD TAT	Quote #
Immediately Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>	Date Results Needed	

SDG #	L1900902
Table #	
Acctnum: GBMCBAR	
Template: T198831	
Prelogin: P1175847	
PM: 829 - Brittnie L Boyd	
PB: 09/03/25	
Shipped Via: FedEX Priority	

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	B, Ca 250mlHDPE-HNO3	Cl, F, SO4 250mlHDPE-NoPres	TDS 1L-HDPE NoPres										
MW-114D		GW																	
MW-115D		GW																	
MW-118D		GW																	
FIELD BLANK 1	G	GW		9-19-25	1310	3	X	X	X										
DUPLICATE 1 (MW-101D)	G	GW		9-18-25	1020	3	X	X	X									6.00	09/10
FIELD BLANK 2	G	GW		9-19-25	1310	3	X	X	X										
DUPLICATE 2 (MW-1015)	G	GW		9-18-25	1140	3	X	X	X									4.88	12
		GW																	
		GW																	
		GW																	

* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other _____	Remarks:	pH _____ Temp _____ Flow _____ Other _____	Sample Receipt Checklist COC Seal Present/Intact: <input checked="" type="checkbox"/> NP Y N COC Signed/Accurate: <input checked="" type="checkbox"/> Y N Bottles arrive intact: <input checked="" type="checkbox"/> Y N Correct bottles used: <input checked="" type="checkbox"/> Y N Sufficient volume sent: <input checked="" type="checkbox"/> Y N If Applicable VOA Zero Headspace: <input checked="" type="checkbox"/> Y N Preservation Correct/Checked: <input checked="" type="checkbox"/> Y N RAD Screen <0.5 mR/hr: <input checked="" type="checkbox"/> Y N
Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier _____	Tracking #	multi	

Relinquished by: (Signature) Jacob Colbert	Date: 9-22-25	Time: 0940	Received by: (Signature)	Trip Blank Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> HCL / MeOH TBR
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C multi 36
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) E. K... 17	Date: 9-23-25 Time: 0845

Condition: NCF / OK

Multiple Parcel Form

L#

61900762

Parcel Tracking Number	Infrared Thermometer ID	Temperature Reading (°C)	Correction Factor (°C)	Corrected Temperature (°C)	Custody Seal Intact
4718 2717 3526	TLA9	3.6	-0.1	3.5	Yes / No / <u>Not Present</u>
8718					Yes / No / Not Present
4718 2717 3515	TLA9	4.0	-0.1	3.9	Yes / No / <u>Not Present</u>
					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

E. Brown 17
Name

9-23-25 / 0845
Date

APPENDIX 5

Field Sampling Forms

100 ml/min

GROUNDWATER SAMPLING LOG

SITE NAME: White Bluff SITE LOCATION: Redfield, AR
 WELL NO: MW-1015 SAMPLE ID: MW-1015 DATE: 9/18/75

PURGING DATA

WELL DIAMETER (inches): 2 TUBING DIAMETER (inches): 1.8 TOTAL WATER DEPTH (feet): 49.10 STATIC DEPTH TO WATER (feet): 38.30 PURGE PUMP TYPE OR BAILER: BP
 WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
 = (49.10 - 38.30) X = gallons
 EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
 = + (X) + = gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	WELL SCREEN INTERVAL DEPTH:		PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) $\mu\text{mhos/cm}$ or $\mu\text{S/cm}$	DISSOLVED OXYGEN (circle units) mg/L or % saturation	Redox (mV)	Turbidity (NTU)	COLOR / ODOR (describe)
			feet to	feet									
1105	0.13	0.13			0.026	38.40	6.78	26.95	571	3.00	-109	570	Turbid
1110	0.13	0.26					5.75	29.03	382	2.16	-30	29.4	Color
1115	0.13	0.39					5.14	29.59	272	1.04	18	20.6	
1120	0.13	0.52				38.45	5.01	29.35	262	0.80	32	14.5	
1125	0.13	0.65					4.87	29.05	255	0.65	43	8.5	
1130	0.13	0.78					4.98	29.43	250	0.50	47	5.0	
1135	0.13	0.91				38.45	4.92	29.37	250	0.42	41	2.3	
1140	0.13	1.04				38.45	4.88	29.19	230	0.39	44	1.7	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 PURGING EQUIPMENT CODES: B = Bailor, BP = Bladder Pump, ESP = Electric Submersible Pump, PP = Peristaltic Pump, O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JLC/JCH SAMPLER(S) SIGNATURE(S): [Signature]
 PUMP OR TUBING DEPTH IN WELL (feet): 48' TUBING MATERIAL CODE: SAMPLING INITIATED AT: 1140 SAMPLING ENDED AT: 1152
 FIELD DECONTAMINATION: PUMP N TUBING N (replaced) FIELD-FILTERED: Y N FILTER SIZE: μm
 Filtration Equipment Type: DPLICATE: N

SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
				PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	Final pH/Temp			

REMARKS: Page 2 taken
 MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
 SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; RFPF = Reverse Flow Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS
 pH: ± 0.1 units Temperature: $\pm 3\%$ Specific Conductance: $\pm 3\%$ Dissolved Oxygen: (10% for values greater than 0.5 mg/L, if three dissolved oxygen values are less than 0.5 mg/L, consider the values as stabilized) Turbidity: (10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized) Oxidation/Reduction Potential: ± 10 millivolts

100mL/min

GROUNDWATER SAMPLING LOG

3406

SITE NAME: <u>White Bluff</u>	SITE LOCATION: <u>Redfield, Ar</u>
WELL NO: <u>MW-1025</u>	SAMPLE ID: <u>MW-1025</u> DATE: <u>9/16/25</u>

PURGING DATA

WELL DIAMETER (inches): <u>2"</u>	TUBING DIAMETER (inches): <u>1/4"</u>	TOTAL WATER DEPTH (feet): <u>53.10</u>	STATIC DEPTH TO WATER (feet): <u>34.08</u>	PURGE PUMP TYPE OR BAILER: <u>BP</u>	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)					
= (feet - feet) X gallons/foot = <u>N/A</u> gallons					
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)					
= gallons + (gallons/foot X feet) + gallons = <u>N/A</u> gallons					
PUMP OR TUBING DEPTH IN WELL (feet): <u>39'</u>	WELL SCREEN INTERVAL DEPTH: feet to feet		PURGING INITIATED AT: <u>1110</u>	PURGING ENDED AT: <u>1150</u>	TOTAL VOLUME PURGED (gallons): <u>1.06</u>

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or (μS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	Redox (mV)	Turbidity (NTU)	COLOR / ODOR (describe)
1115	.132	.132	.026	35.00	6.66	31.35	371	3.12	-3	28.3	
1120	.132	.264			6.30	32.51	250	2.65	59	13.5	
1125	.132	.396			6.10	33.00	199	1.75	102	6.0	
1130	.132	.528		35.29	6.03	33.28	191	1.66	123	3.9	
1135	.132	.660			5.94	33.83	191	1.20	76	1.08	
1140	.132	.792			5.91	34.26	195	0.81	69	1.30	
1145	.132	.924		35.51	5.89	34.49	199	0.77	69	0.9	
1150	.132	1.06		35.52	5.88	34.77	201	0.72	70	1.0	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>JLC/msd</u>	SAMPLER(S) SIGNATURE(S): <u>JLC/msd</u>	SAMPLING INITIATED AT: <u>1150</u>	SAMPLING ENDED AT: <u>1156</u>
PUMP OR TUBING DEPTH IN WELL (feet): <u>39'</u>	TUBING MATERIAL CODE:	FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	FILTER SIZE: _____ μm
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> TUBING <input checked="" type="checkbox"/> N (replaced) <input checked="" type="checkbox"/>		DUPLICATE: Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	Final pH/Temp			

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

- NOTES: 1. The above do not constitute all of the information required by
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS
 pH: ± 0.1 units Temperature: ± 3% Specific Conductance: ± 3% Dissolved Oxygen: (10% for values greater than 0.5 mg/L, if three dissolved oxygen values are less than 0.5 mg/L, consider the values as stabilized) Turbidity: (10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized) Oxidation/Reduction Potential: ± 10 millivolts

Sample/num

GROUNDWATER SAMPLING LOG

SITE NAME: White Bluff	SITE LOCATION: Redfield, Ar.
WELL NO: MW-1035	SAMPLE ID: MW-1035 DATE: 9/15/25

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/4"	TOTAL WATER DEPTH (feet): 23.10	STATIC DEPTH TO WATER (feet): 20.46	PURGE PUMP TYPE OR BAILER: BP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				
= (feet - feet) X gallons/foot = N/A gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				
= gallons + (gallons/foot X feet) + gallons = N/A gallons				

PUMP OR TUBING DEPTH IN WELL (feet): 23'		WELL SCREEN INTERVAL DEPTH: feet to feet		PURGING INITIATED AT: 1320	PURGING ENDED AT: 1400	TOTAL VOLUME PURGED (gallons): .495					
TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) (mg/l) or % saturation	Redox (mV)	Turbidity (NTU)	COLOR / ODOR (describe)
1320	.066	.066	.0132	20.51	8.23	29.00	115	2.23	141	48.3	Turbid
1325	.066	.132			6.93	29.25	41.3	2.18	198	123	
1330	.066	.198			6.41	29.30	32.3	2.19	223	113	
1335	.066	.264		20.90	6.06	29.38	289	2.42	244	89.2	
1340	.066	.33			5.87	29.50	274	2.28	254	74.5	
1345	.066	.396			5.79	29.59	267	2.27	270	52.0	
1350	.066	.462		21.35	5.70	29.70	263	1.93	277	37.0	
1355	.066	.462			5.63	29.72	262	1.90	283	35.3	
1400	.066	.495		21.40	5.69	29.77	261	1.77	286	35.1	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JLC/MSD	SAMPLER(S) SIGNATURE(S): JLC/MSD	SAMPLING INITIATED AT: 1400	SAMPLING ENDED AT: 1406
PUMP OR TUBING DEPTH IN WELL (feet): 23'	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N	FILTER SIZE: _____ μm
FIELD DECONTAMINATION: PUMP <input checked="" type="radio"/> N	TUBING <input checked="" type="radio"/> N (replaced)	DUPLICATE: Y <input checked="" type="radio"/> N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	Final pH/Temp			

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS
 pH: ± 0.1 units Temperature: ± 3% Specific Conductance: ± 3% Dissolved Oxygen: (10% for values greater than 0.5 mg/L, if three dissolved oxygen values are less than 0.5 mg/L, consider the values as stabilized) Turbidity: (10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized) Oxidation/Reduction Potential: ± 10 millivolts

80 mL/min

GROUNDWATER SAMPLING LOG

31.7

27.5

SITE NAME: White Bluff	SITE LOCATION: Redfield, Ar
WELL NO: MW-1045	SAMPLE ID: MW-1045
DATE: 9/14/25	

PURGING DATA

WELL DIAMETER (inches): 6"	TUBING DIAMETER (inches): 1/4"	TOTAL WATER DEPTH (feet): 40.15	STATIC DEPTH TO WATER (feet): 31.70	PURGE PUMP TYPE OR BAILER: BP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				
= (feet - feet) X gallons/foot = N/A gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				
= gallons + (gallons/foot X feet) + gallons = N/A gallons				

PUMP OR TUBING DEPTH IN WELL (feet): 35'	WELL SCREEN INTERVAL DEPTH: feet to feet	PURGING INITIATED AT: 0910	PURGING ENDED AT: 0955	TOTAL VOLUME PURGED (gallons): 254							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) or % saturation	Redox (mV)	Turbidity (NTU)	COLOR / ODOR (describe)
0915	.106	.106	.0211	32.00	4.80	23.54	294	2.14	114	38.2	
0920	.106	.212			5.07	24.25	259	1.07	88	30.9	
0925	.106	.318			5.03	24.33	246	0.81	73	26.0	
0930	.106	.424		22.30	4.94	24.34	243	0.70	71	21.2	
0935	.106	.53			4.96	24.52	240	0.69	42	19.7	
0940	.106	.636			4.99	24.55	241	0.62	55	15.6	
0945	.106	.742		32.41	4.92	24.51	240	0.54	57	11.1	
0950	.106	.848			4.94	24.57	239	0.51	50	11.5	
0955	.106	.954		32.48	4.94	24.69	237	0.51	53	10.6	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JLC/MSD	SAMPLER(S) SIGNATURE(S): JLC/MSD	SAMPLING INITIATED AT: 0955	SAMPLING ENDED AT: 1001
PUMP OR TUBING DEPTH IN WELL (feet): 35'	TUBING MATERIAL CODE:	FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	FILTER SIZE: _____ μm
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> Y <input type="checkbox"/> N TUBING <input checked="" type="checkbox"/> Y <input type="checkbox"/> N (replaced)	DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	Final pH/Temp			
				Ice	ROC				

REMARKS: **Handler calibrated prior to purging**

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS
 pH: ± 0.1 units Temperature: ± 3% Specific Conductance: ± 3% Dissolved Oxygen: (10% for values greater than 0.5 mg/L, if three dissolved oxygen values are less than 0.5 mg/L, consider the values as stabilized) Turbidity: (10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized) Oxidation/Reduction Potential: ± 10 millivolts

70ml/min

GROUNDWATER SAMPLING LOG

SITE NAME: White Bluff SITE LOCATION: Redfield, Av.
 WELL NO: MW-106S SAMPLE ID: MW-106S DATE: 9/17/25

PURGING DATA

WELL DIAMETER (inches): 2" TUBING DIAMETER (inches): 1/4" TOTAL WATER DEPTH (feet): 25.93 STATIC DEPTH TO WATER (feet): 14.61 PURGE PUMP TYPE OR BAILER: BP
 WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
 = (25.93 - 14.61) feet X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
 = gallons + (gallons/foot X feet) + gallons = gallons

PUMP OR TUBING DEPTH IN WELL (feet): 201 WELL SCREEN INTERVAL DEPTH: feet to feet PURGING INITIATED AT: 0845 PURGING ENDED AT: 0930 TOTAL VOLUME PURGED (gallons): 82

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. (circle units) $\mu\text{mhos/cm}$ or $\mu\text{S/cm}$	DISSOLVED OXYGEN (circle units) (mg/L or % saturation)	Redox (mV)	Turbidity (NTU)	COLOR / ODOR (describe)
0850	.097	.092	.018	14.61	3.74	25.14	1930	2.59	302	14.7	
0855	.092	.184			2.74	27.92	1910	1.62	344	14.4	
0900	.092	.276			3.25	27.95	1900	1.10	310	13.6	
0905	.092	.368		14.80	3.33	29.38	1890	0.94	304	9.4	
0910	.092	.460			3.36	29.47	1880	0.94	321	7.6	
0915	.092	.552			3.37	29.53	1860	0.86	334	7.0	
0920	.092	.644		14.80	3.38	29.72	1830	0.93	339	4.0	
0925	.092	.736			3.39	20.12	1830	0.89	343	1.8	
0930	.092	.828		14.84	3.38	30.47	1830	0.95	345	1.6	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JLC/MSD SAMPLER(S) SIGNATURE(S): JLC/MSD SAMPLING INITIATED AT: 0930 SAMPLING ENDED AT: 0934
 PUMP OR TUBING DEPTH IN WELL (feet): TUBING MATERIAL CODE: FIELD-FILTERED: Y FILTER SIZE: μm
 FIELD DECONTAMINATION: PUMP Y TUBING Y N (replaced) DUPLICATE: Y N

SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
				PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	Final pH/Temp			
<u>See log</u>									

REMARKS: Flask calibrated prior to purging
 MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
 SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS
 pH: ± 0.1 units Temperature: $\pm 3\%$ Specific Conductance: $\pm 3\%$ Dissolved Oxygen: (10% for values greater than 0.5 mg/L, if three dissolved oxygen values are less than 0.5 mg/L, consider the values as stabilized) Turbidity: (10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized) Oxidation/Reduction Potential: ± 10 millivolts

60 ml/min

GROUNDWATER SAMPLING LOG

SITE NAME: <u>White Bluff</u>	SITE LOCATION: <u>Redfield, Ar</u>
WELL NO: <u>MW-115</u>	SAMPLE ID: <u>MW-115</u> DATE: <u>9/17/25</u>

PURGING DATA

WELL DIAMETER (inches): <u>2"</u>	TUBING DIAMETER (inches): <u>1/4"</u>	TOTAL WATER DEPTH (feet): <u>23.32</u>	STATIC DEPTH TO WATER (feet): <u>14.75</u>	PURGE PUMP TYPE OR BAILER: <u>3P</u>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				
= (feet - feet) X gallons/foot = <u>N/A</u> gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				
= gallons + (gallons/foot X feet) + gallons = <u>N/A</u> gallons				

PUMP OR TUBING DEPTH IN WELL (feet): <u>201</u>		WELL SCREEN INTERVAL DEPTH: feet to feet		PURGING INITIATED AT: <u>1045</u>		PURGING ENDED AT: <u>1125</u>		TOTAL VOLUME PURGED (gallons):			
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	Redox (mV)	Turbidity (NTU)	COLOR / ODOR (describe)
1050	.08	.08	.016	14.85	4.66	34.10	1350	1.81	272	27.0	
1055	.08	.16			4.01	34.30	1440	1.29	338	23.0	
1100	.08	.24			3.67	34.53	394	1.12	365	18.0	
1105	.08	.32		14.95	3.64	34.76	1510	1.08	380	30.8	
1110	.08	.40			3.53	35.00	1530	1.02	389	25.0	
1115	.08	.48			3.49	35.03	1520	1.05	394	20.8	
1120	.08	.56		14.95	3.47	35.11	1520	1.07	395	19.7	
1125	.08	.64		14.95	3.48	35.21	1520	1.05	397	19.5	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>JLC/msd</u>	SAMPLER(S) SIGNATURE(S): <u>JLC/msd</u>	SAMPLING INITIATED AT: <u>1125</u>	SAMPLING ENDED AT: <u>1129</u>
PUMP OR TUBING DEPTH IN WELL (feet): <u>20'</u>	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N)	FILTER SIZE: _____ μm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING (Y) N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	Final pH/Temp			

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS
pH: ± 0.1 units **Temperature:** ± 3% **Specific Conductance:** ± 3% **Dissolved Oxygen:** (10% for values greater than 0.5 mg/L, if three dissolved oxygen values are less than 0.5 mg/L, consider the values as stabilized) **Turbidity:** (10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized) **Oxidation/Reduction Potential:** ± 10 millivolts

GROUNDWATER SAMPLING LOG

SITE NAME: <u>White Bluffs</u>	SITE LOCATION: <u>Redfield, AR</u>
WELL NO: <u>MW-1011</u>	SAMPLE ID: <u>MW-1011</u>
DATE: <u>9/18/25</u>	

PURGING DATA

WELL DIAMETER (inches): <u>2 in</u>	TUBING DIAMETER (inches): <u>8</u>	TOTAL WATER DEPTH (feet): <u>116.0</u>	STATIC DEPTH TO WATER (feet): <u>46.73</u>	PURGE PUMP TYPE OR BAILER: <u>BP</u>
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WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
 = (116.0 - 46.73) X 1.43 = 109.27 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
 = 0.13 + (0.02 X 107) + 0 = 2.24 gallons

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND (circle units) $\mu\text{mhos/cm}$ or $\mu\text{S/cm}$	DISSOLVED OXYGEN (circle units) mg/L or % saturation	Redox (mV)	Turbidity (NTU)	COLOR / ODOR (describe)
0930	0.13	0.13	0.026	97.30	5.41	22.72	551	4.77	26	59.8	Turbid
0935	0.13	0.26			5.56	22.53	549	3.07	-27	40.7	
0940	0.13	0.39			5.66	22.48	547	2.64	-48	40.0	
0945	0.13	0.52		97.30	5.87	22.47	548	2.24	-75	29.0	clear
0950	0.13	0.65			5.91	22.54	549	1.95	-88	26.0	
0955	0.13	0.78			5.92	22.50	549	1.86	-89	27.0	
1000	0.13	0.91		97.30	6.37	22.50	548	1.86	-118	25.0	
1005	0.13	1.04			6.19	22.61	549	1.77	-112	18.3	
1010	0.13	1.17			6.09	22.75	555	1.45	-112	12.8	
1015	0.13	1.30		97.30	6.01	22.78	555	1.41	-107	12.4	
1020	0.13	1.43		97.30	6.00	22.81	555	1.35	-104	13.7	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>SLC/SLC</u>	SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>	SAMPLING INITIATED AT: <u>1020</u>	SAMPLING ENDED AT: <u>1047</u>
PUMP OR TUBING DEPTH IN WELL (feet): <u>107</u>	TUBING MATERIAL CODE: <u>-</u>	FIELD-FILTERED: Y <input checked="" type="checkbox"/> N	FILTER SIZE: <u>45</u> μm
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N	TUBING Y <input checked="" type="checkbox"/> N (replaced)	DUPLICATE: <input checked="" type="checkbox"/> N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	Final pH/Temp			

REMARKS: Calibrated Horiba Probe for purging

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; RFP = Reverse Flow Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS
 pH: ± 0.1 units Temperature: $\pm 3\%$ Specific Conductance: $\pm 3\%$ Dissolved Oxygen: (10% for values greater than 0.5 mg/L, if three dissolved oxygen values are less than 0.5 mg/L, consider the values as stabilized) Turbidity: (10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized) Oxidation/Reduction Potential: ± 10 millivolts

110/mL

GROUNDWATER SAMPLING LOG

91.51

SITE NAME: <u>White Bluff</u>	SITE LOCATION: <u>Redfield, Ar</u>
WELL NO: <u>MW-102D</u>	SAMPLE ID: <u>MW-102D</u> DATE: <u>9/16/25</u>

PURGING DATA

WELL DIAMETER (inches): <u>2"</u>	TUBING DIAMETER (inches): <u>1/4"</u>	TOTAL WATER DEPTH (feet): <u>111.75</u>	STATIC DEPTH TO WATER (feet): <u>91.58</u>	PURGE PUMP TYPE OR BAILER: <u>BP</u>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				
= (feet - feet) X gallons/foot = <u>N/A</u> gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				
= gallons + (gallons/foot X feet) + gallons = <u>N/A</u> gallons				

PUMP OR TUBING DEPTH IN WELL (feet): <u>102</u>		WELL SCREEN INTERVAL DEPTH: feet to feet		PURGING INITIATED AT: <u>1205</u>	PURGING ENDED AT: <u>1240</u>	TOTAL VOLUME PURGED (gallons): <u>1.02</u>					
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	Redox (mV)	Turbidity (NTU)	COLOR / ODOR (describe)
1210	.145	.145	.029	91.75	6.58	31.93	322	1.94	-70	5.80	
1215	.145	.29			7.05	29.63	492	0.98	-128	6.5	
1220	.145	.435			7.10	28.41	548	1.12	-157	7.0	
1225	.145	.58		93.90	7.24	27.30	550	1.40	-171	7.5	
1230	.145	.725			7.25	26.46	557	1.86	-175	8.6	
1235	.145	.87			7.18	26.75	562	1.77	-175	7.7	
1240	.145	1.02		95.48	7.14	26.45	565	1.75	-175	7.7	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>JLC/MSD</u>	SAMPLER(S) SIGNATURE(S): <u>JLC/MSD</u>	SAMPLING INITIATED AT: <u>1240</u>	SAMPLING ENDED AT: <u>1248</u>
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	FILTER SIZE: _____ μm
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N <input type="checkbox"/> TUBING <input checked="" type="checkbox"/> N (replaced) <input type="checkbox"/>		DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	Final pH/Temp			
<u>see roc</u>									

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

- NOTES: 1. The above do not constitute all of the information required by
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS
- pH: ± 0.1 units Temperature: ± 3% Specific Conductance: ± 3% Dissolved Oxygen: (10% for values greater than 0.5 mg/L, if three dissolved oxygen values are less than 0.5 mg/L, consider the values as stabilized) Turbidity: (10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized) Oxidation/Reduction Potential: ± 10 millivolts

100 mL/min

GROUNDWATER SAMPLING LOG

SITE NAME: <u>White Bluff</u>	SITE LOCATION: <u>Redfield, Ar</u>
WELL NO: <u>MW-103D</u>	SAMPLE ID: <u>MW-103D</u> DATE: <u>9/15/25</u>

PURGING DATA

WELL DIAMETER (inches): <u>2"</u>	TUBING DIAMETER (inches): <u>1/4"</u>	TOTAL WATER DEPTH (feet): <u>85.10</u>	STATIC DEPTH TO WATER (feet): <u>42.00</u>	PURGE PUMP TYPE OR BAILER: <u>BP</u>							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)											
= (feet - feet) X gallons/foot = <u>N/A</u> gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
= gallons + (gallons/foot X feet) + gallons = <u>N/A</u> gallons											
PUMP OR TUBING DEPTH IN WELL (feet): <u>52'</u>	WELL SCREEN INTERVAL DEPTH: feet to feet		PURGING INITIATED AT: <u>1230</u>	PURGING ENDED AT: <u>1300</u>	TOTAL VOLUME PURGED (gallons): <u>0.792</u>						
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. (circle units) $\mu\text{mhos/cm}$ or $\mu\text{S/cm}$	DISSOLVED OXYGEN (circle units) mg/L or % saturation	Redox (mV)	Turbidity (NTU)	COLOR / ODOR (describe)
1235	.132	.132	.0264	42.61	8.23	29.96	608	3.08	164	6.7	
1240	.132	.264			8.18	29.30	697	0.81	169	0.1	
1245	.132	.396			8.17	27.87	712	0.75	158	0.1	
1250	.132	.528		45.15	8.17	27.61	714	0.50	155	0.4	
1255	.132	.660			8.15	27.35	716	0.47	152	0.2	
1300	.132	.792		46.95	8.15	27.15	712	0.47	145	0.4	
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88											
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>JLC / MSD</u>				SAMPLER(S) SIGNATURE(S): <u>JLC / msb</u>				SAMPLING INITIATED AT: <u>1300</u>		SAMPLING ENDED AT: <u>1300</u>		
PUMP OR TUBING DEPTH IN WELL (feet): <u>52'</u>				TUBING MATERIAL CODE:				FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		FILTER SIZE: _____ μm		
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N <input type="checkbox"/>				TUBING <input checked="" type="checkbox"/> N (replaced) <input type="checkbox"/>				DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	Final pH/Temp						
<u>see loc</u>												
REMARKS:												
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)												
SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)												

NOTES: 1. The above do not constitute all of the information required by
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS
 pH: ± 0.1 units Temperature: $\pm 3\%$ Specific Conductance: $\pm 3\%$ Dissolved Oxygen: (10% for values greater than 0.5 mg/L, if three dissolved oxygen values are less than 0.5 mg/L, consider the values as stabilized) Turbidity: (10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized) Oxidation/Reduction Potential: ± 10 millivolts

200 mL/min

86-74

GROUNDWATER SAMPLING LOG

SITE NAME: <u>White Bluff</u>	SITE LOCATION: <u>Redfield, Ar</u>
WELL NO: <u>MW-104D</u>	SAMPLE ID: <u>MW-104D</u> DATE: <u>9/16/25</u>

PURGING DATA

WELL DIAMETER (inches): <u>2"</u>	TUBING DIAMETER (inches): <u>1/4"</u>	TOTAL WATER DEPTH (feet): <u>106.22</u>	STATIC DEPTH TO WATER (feet): <u>86.80</u>	PURGE PUMP TYPE OR BAILER: <u>BP</u>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				
= (feet - feet) X gallons/foot = <u>N/A</u> gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				
= gallons + (gallons/foot X feet) + gallons = <u>N/A</u> gallons				

PUMP OR TUBING DEPTH IN WELL (feet): <u>100</u>		WELL SCREEN INTERVAL DEPTH: feet to feet		PURGING INITIATED AT: <u>1010</u>	PURGING ENDED AT: <u>1050</u>	TOTAL VOLUME PURGED (gallons): <u>1.27</u>					
TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) (mg/L or % saturation)	Redox (mV)	Turbidity (NTU)	COLOR / ODOR (describe)
1015	.159	.159	.0317	87.49	6.28	23.04	426	1.85	-40	50.0	
1020	.159	.318			6.81	22.67	494	1.79	-122	49.1	
1025	.159	.477			6.93	22.34	523	1.54	-152	32.1	
1030	.159	.636		89.62	7.14	22.05	578	1.70	-103	22.1	
1035	.159	.795			7.18	22.25	531	1.88	-108	16.1	
1040	.159	.954			7.19	22.10	533	1.88	-108	12.0	
1045	.159	1.11		92.22	7.20	22.21	534	1.87	-108	11.6	
1050	.159	1.27		92.83	7.22	22.22	533	1.82	-108	11.1	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0028; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>JLC/msd</u>				SAMPLER(S) SIGNATURE(S): <u>JLC/msd</u>			SAMPLING INITIATED AT: <u>1050</u>	SAMPLING ENDED AT: <u>1050</u>	
PUMP OR TUBING DEPTH IN WELL (feet): <u>100'</u>				TUBING MATERIAL CODE:		FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	FILTER SIZE: _____ μm		
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N <input type="checkbox"/> TUBING <input checked="" type="checkbox"/> N (replaced) <input type="checkbox"/>				DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>					
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	Final pH/Temp			
<u>See Col</u>									
REMARKS:									

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

- NOTES: 1. The above do not constitute all of the information required by
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS
 pH: ± 0.1 units Temperature: ± 3% Specific Conductance: ± 3% Dissolved Oxygen: (10% for values greater than 0.5 mg/L, if three dissolved oxygen values are less than 0.5 mg/L, consider the values as stabilized) Turbidity: (10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized) Oxidation/Reduction Potential: ± 10 millivolts

100 ml/min

GROUNDWATER SAMPLING LOG

SITE NAME: <u>White Bluff</u>	SITE LOCATION: <u>Redfield, AR</u>
WELL NO: <u>MW-105 D</u>	SAMPLE ID: <u>MW-105 D</u>
DATE: <u>9-19-25</u>	

PURGING DATA

WELL DIAMETER (inches): <u>2.0</u>	TUBING DIAMETER (inches): <u>1.8</u>	TOTAL WATER DEPTH (feet): <u>110.11</u>	STATIC DEPTH TO WATER (feet): <u>80.04</u>	PURGE PUMP TYPE OR BAILER: <u>BP</u>
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WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
 = (110.11 - 80.04) X 1.04 = 31.07 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
 = 0.13 + (0.0006 X 90) + 0.0006 = 0.13 gallons

PUMP OR TUBING DEPTH IN WELL (feet): <u>90</u>	WELL SCREEN INTERVAL DEPTH: <u>feet to</u> <u>feet</u>	PURGING INITIATED AT: <u>210</u>	PURGING ENDED AT: <u>1250</u>	TOTAL VOLUME PURGED (gallons): <u>1.04</u>
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TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	Redox (mV)	Turbidity (NTU)	COLOR / ODOR (describe)
1215	0.13	0.13	0.026	80.06	8.25	35.05	645	4.60	-63	12.9	clear
1220	0.13	0.26			7.10	34.15	789	2.70	-64	13.2	
1225	0.13	0.39			6.98	33.06	611	1.48	-45	14.2	
1230	0.13	0.52		82.15	6.99	32.15	561	1.08	-49	12.2	
1235	0.13	0.65			6.96	31.87	555	0.82	-51	11.0	
1240	0.13	0.78			6.96	31.72	544	0.70	-95	9.9	
1245	0.13	0.91		84.70	6.97	31.44	544	0.64	-99	9.1	
1250	0.13	1.04		85.16	6.96	30.93	538	0.63	-104	9.1	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>SLC/HEC</u>	SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>	SAMPLING INITIATED AT: <u>1250</u>	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): <u>90</u>	TUBING MATERIAL CODE:	FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	FILTER SIZE: <u>10 μm</u>
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N <input type="checkbox"/> TUBING <input checked="" type="checkbox"/> N (replaced)	DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		

SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
				PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	Final pH/Temp			

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS
 pH: ± 0.1 units Temperature: ± 3% Specific Conductance: ± 3% Dissolved Oxygen: (10% for values greater than 0.5 mg/L, if three dissolved oxygen values are less than 0.5 mg/L, consider the values as stabilized) Turbidity: (10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized) Oxidation/Reduction Potential: ± 10 millivolts

10ml/min

GROUNDWATER SAMPLING LOG

40

SITE NAME: <u>White Bluff</u>	SITE LOCATION: <u>Redfield, Ar</u>
WELL NO: <u>MW-1060D</u>	SAMPLE ID: <u>MW-1060D</u>
DATE: <u>9/17/25</u>	

PURGING DATA

WELL DIAMETER (inches): <u>2"</u>	TUBING DIAMETER (inches): <u>1/4"</u>	TOTAL WATER DEPTH (feet): <u>86.94</u>	STATIC DEPTH TO WATER (feet): <u>12.79</u>	PURGE PUMP TYPE OR BAILER: <u>BP</u>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				
= (feet - feet) X gallons/foot = <u>N/A</u> gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				
= gallons + (gallons/foot X feet) + gallons = <u>N/A</u> gallons				

PUMP OR TUBING DEPTH IN WELL (feet): <u>50'</u>		WELL SCREEN INTERVAL DEPTH: feet to feet		PURGING INITIATED AT: <u>0940</u>	PURGING ENDED AT: <u>1010</u>	TOTAL VOLUME PURGED (gallons): <u>0.79</u>					
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	Redox (mV)	Turbidity (NTU)	COLOR / ODOR (describe)
0945	.132	.132	.0264	42.71	4.66	31.27	1440	2.42	308	10.4	
0950	.132	.264			6.18	30.85	674	1.85	-93	10.3	
0955	.132	.396			8.41	30.48	388	2.47	-44	7.7	
1000	.132	.528		45.60	8.96	30.39	338	3.33	-25	5.8	
1005	.132	.660			9.09	30.60	329	3.86	-23	4.9	
1010	.132	.79			9.18	30.94	329	3.89	-23	5.3	
1015	.132	.92		48.17	9.12	31.31	329	4.04	-21	5.3	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>JLC/mms</u>	SAMPLER(S) SIGNATURE(S): <u>JLC/mms</u>	SAMPLING INITIATED AT: <u>1010</u>	SAMPLING ENDED AT: <u>1029</u>
PUMP OR TUBING DEPTH IN WELL (feet): <u>50'</u>	TUBING MATERIAL CODE:	FIELD-FILTERED: Y <input checked="" type="checkbox"/> N	FILTER SIZE: _____ μm
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N TUBING <input checked="" type="checkbox"/> N (replaced)		DUPLICATE: Y <input checked="" type="checkbox"/> N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	Final pH/Temp			

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS
 pH: ± 0.1 units Temperature: ± 3% Specific Conductance: ± 3% Dissolved Oxygen: (10% for values greater than 0.5 mg/L, if three dissolved oxygen values are less than 0.5 mg/L, consider the values as stabilized) Turbidity: (10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized) Oxidation/Reduction Potential: ± 10 millivolts

100ml/min

GROUNDWATER SAMPLING LOG

SITE NAME: White Bluff	SITE LOCATION: Redfield, Ar
WELL NO: MW-109D	SAMPLE ID: MW-109D
DATE: 9/17/25	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/4"	TOTAL WATER DEPTH (feet): 111.32	STATIC DEPTH TO WATER (feet): 79.15	PURGE PUMP TYPE OR BAILER: BP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				
= (feet - feet) X gallons/foot = N/A gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				
= gallons + (gallons/foot X feet) + gallons = N/A gallons				

PUMP OR TUBING DEPTH IN WELL (feet): 90'	WELL SCREEN INTERVAL DEPTH: feet to feet	PURGING INITIATED AT: 1315	PURGING ENDED AT: 1400	TOTAL VOLUME PURGED (gallons): 1.18							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND (circle units) $\mu\text{mhos/cm}$ or $\mu\text{S/cm}$	DISSOLVED OXYGEN (circle units) (mg/L or % saturation)	Redox (mV)	Turbidity (NTU)	COLOR / ODOR (describe)
1320	.132	.132	.02104	79.79	7.30	27.23	576	9.32	-153	29.3	
1325	.132	.264			6.55	26.48	574	1.41	-124	17.1	
1330	.132	.396			5.33	25.93	571	1.34	-64	9.8	
1335	.132	.528		82.38	6.23	25.30	571	1.51	-98	6.8	
1340	.132	.660			6.86	25.23	570	1.61	-125	10.0	
1345	.132	.792			6.96	25.22	568	1.76	-122	5.0	
1350	.132	.924		85.29	7.13	25.48	563	2.12	-124	7.3	
1355	.132	1.056			7.19	25.61	571	2.17	-121	8.0	
1400	.132	1.188		87.23	7.11	25.87	564	2.30	-121	7.7	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JLC/msd	SAMPLER(S) SIGNATURE(S): JLC/msd	SAMPLING INITIATED AT: 1400	SAMPLING ENDED AT: 1407
PUMP OR TUBING DEPTH IN WELL (feet): 90'	TUBING MATERIAL CODE:	FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	FILTRATION EQUIPMENT TYPE: N
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N <input type="checkbox"/>	TUBING <input checked="" type="checkbox"/> N (replaced) <input type="checkbox"/>	DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	Final pH/Temp			
see coc									

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by
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 pH: ± 0.1 units Temperature: $\pm 3\%$ Specific Conductance: $\pm 3\%$ Dissolved Oxygen: (10% for values greater than 0.5 mg/L, if three dissolved oxygen values are less than 0.5 mg/L, consider the values as stabilized) Turbidity: (10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized) Oxidation/Reduction Potential: ± 10 millivolts

70ml/min

GROUNDWATER SAMPLING LOG

SITE NAME: <u>White Bluff</u>	SITE LOCATION: <u>Redfield, Ar</u>
WELL NO: <u>MW-110D</u>	SAMPLE ID: <u>MW-110D</u> DATE: <u>9/15/25</u>

PURGING DATA

WELL DIAMETER (inches): <u>4"</u>	TUBING DIAMETER (inches): <u>1/4"</u>	TOTAL WATER DEPTH (feet): <u>84.38</u>	STATIC DEPTH TO WATER (feet): <u>34.58</u>	PURGE PUMP TYPE OR BAILER: <u>BP</u>							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (feet - feet) X gallons/foot = <u>N/A</u> gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = <u>N/A</u> gallons											
PUMP OR TUBING DEPTH IN WELL (feet): <u>40'</u>	WELL SCREEN INTERVAL DEPTH: feet to feet	PURGING INITIATED AT: <u>1135</u>	PURGING ENDED AT: <u>1200</u>	TOTAL VOLUME PURGED (gallons): <u>462</u>							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND (circle units) $\mu\text{mhos/cm}$ or $\mu\text{S/cm}$	DISSOLVED OXYGEN (circle units) mg/L or % saturation	Redox (mV)	Turbidity (NTU)	COLOR / ODOR (describe)
1140	.0925	.0925	.018	34.80	7.11	21.96	509	1.07	164	1.5	
1145	.0925	.185			7.69	27.54	537	0.75	147	0.0	
1150	.0925	.277			7.94	27.50	542	0.78	141	0.0	
1155	.0925	.369		35.20	7.98	27.45	544	0.80	138	0.1	
1200	.0925	.462		35.44	8.01	27.43	545	0.75	137	0.1	
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>JLCLMSB</u>				SAMPLER(S) SIGNATURE(S): <u>JLCLMSB</u>			SAMPLING INITIATED AT: <u>1200</u>		SAMPLING ENDED AT: <u>1215</u>	
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE:		FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		FILTER SIZE: _____ μm		
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N <input type="checkbox"/> TUBING <input checked="" type="checkbox"/> N (replaced) <input type="checkbox"/>				DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>						
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	Final pH/Temp				
<u>see log</u>										
REMARKS:										
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)										
SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)										

NOTES: 1. The above do not constitute all of the information required by
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 pH: ± 0.1 units Temperature: $\pm 3\%$ Specific Conductance: $\pm 3\%$ Dissolved Oxygen: (10% for values greater than 0.5 mg/L, if three dissolved oxygen values are less than 0.5 mg/L, consider the values as stabilized) Turbidity: (10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized) Oxidation/Reduction Potential: ± 10 millivolts

100 ml/min

GROUNDWATER SAMPLING LOG

SITE NAME: <u>White Bluff</u>	SITE LOCATION: <u>Redfield, AR</u>
WELL NO: <u> </u>	SAMPLE ID: <u>MW-100V</u> DATE: <u>7-19-25</u>

PURGING DATA

WELL DIAMETER (inches): <u>4"</u>	TUBING DIAMETER (inches): <u>1/2"</u>	TOTAL WATER DEPTH (feet): <u>46.81</u>	STATIC DEPTH TO WATER (feet): <u>10.62</u>	PURGE PUMP TYPE OR BAILER: <u>BP</u>							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)											
$\text{feet} - \text{feet} \times \text{gallons/foot} = \text{gallons}$											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
$= \text{gallons} + (\text{gallons/foot} \times \text{feet}) + \text{gallons} = \text{gallons}$											
PUMP OR TUBING DEPTH IN WELL (feet): <u>20'</u>	WELL SCREEN INTERVAL DEPTH: feet to feet		PURGING INITIATED AT: <u>0815</u>	PURGING ENDED AT: <u>0845</u>	TOTAL VOLUME PURGED (gallons): <u>0.78</u>						
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. (circle units) $\mu\text{mhos/cm}$ or $\mu\text{S/cm}$	DISSOLVED OXYGEN (circle units) mg/L or % saturation	Redox (mV)	Turbidity (NTU)	COLOR / ODOR (describe)
0820	0.13	0.13	0.046	10.96	4.59	24.51	892	5.65	104	2.0	Clear
0825	0.17	0.26			5.53	24.71	1470	2.15	110	0.8	
0830	0.13	0.29			5.81	24.52	1310	1.85	129	0.0	
0835	0.13	0.52		11.65	6.01	24.74	1330	1.65	136	0.1	
0840	0.12	0.65			6.04	25.14	1520	2.02	145	1.2	
0845	0.13	0.78		11.97	6.11	25.28	1520	2.08	144	1.7	
<small>WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016</small>											
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>SLC/HCO</u>				SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>			SAMPLING INITIATED AT: <u>0845</u>		SAMPLING ENDED AT: <u>0855</u>	
PUMP OR TUBING DEPTH IN WELL (feet): <u>20'</u>				TUBING MATERIAL CODE:		FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		FILTER SIZE: <u>1/2</u> μm		
FIELD DECONTAMINATION: PUMP <input type="checkbox"/> N <input checked="" type="checkbox"/> TUBING <input checked="" type="checkbox"/> N (replaced)				DUPLICATE: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>						
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	Final pH/Temp				
<u>See LDC</u>										
REMARKS: <u>Calibrated Hario Prior to purging</u>										
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)										
SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)										

NOTES: 1. The above do not constitute all of the information required by
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pH: ± 0.1 units Temperature: $\pm 3\%$ Specific Conductance: $\pm 3\%$ Dissolved Oxygen: (10% for values greater than 0.5 mg/L, if three dissolved oxygen values are less than 0.5 mg/L, consider the values as stabilized) Turbidity: (10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized) Oxidation/Reduction Potential: ± 10 millivolts

50mL/min

GROUNDWATER SAMPLING LOG

60.19

SITE NAME: White Bluff	SITE LOCATION: Redfield, Ar
WELL NO: MW-114D	SAMPLE ID: MW-114D DATE: 9/16/26

PURGING DATA

WELL DIAMETER (inches): 4"	TUBING DIAMETER (inches): 1/4"	TOTAL WATER DEPTH (feet): 91.18	STATIC DEPTH TO WATER (feet): 60.50	PURGE PUMP TYPE OR BAILER: BP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				
= (feet - feet) X gallons/foot = N/A gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				
= gallons + (gallons/foot X feet) + gallons = N/A gallons				

PUMP OR TUBING DEPTH IN WELL (feet): 60'	WELL SCREEN INTERVAL DEPTH: feet to feet	PURGING INITIATED AT: 1305	PURGING ENDED AT: 1355	TOTAL VOLUME PURGED (gallons): 60
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TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) (mg/L or % saturation)	Redox (mV)	Turbidity (NTU)	COLOR / ODOR (describe)
1310	.066	.066	.0132	60.75	7.41	35.30	620	4.25	-129	34.7	
1315	.066	.132			7.38	36.19	545	4.14	-95	14.3	
1320	.066	.198			7.40	34.64	527	4.06	-77	13.3	
1325	.066	.264		61.18	7.39	34.14	515	3.87	-45	10.8	
1330	.066	.33			7.40	33.90	512	3.72	-32	10.0	
1335	.066	.40			7.37	33.90	511	3.60	-22	6.2	
1340	.066	.46		61.57	7.37	33.73	510	3.61	-11	4.0	
1345	.066	.53			7.41	33.73	513	0.48	-8	5.0	
1350	.066	.59			7.34	33.41	512	0.43	-5	3.8	
1355	.066	.66		61.78	7.40	33.43	510	0.46	-1	2.6	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JLC / MSD	SAMPLER(S) SIGNATURE(S): JLC / MSD	SAMPLING INITIATED AT: 1355	SAMPLING ENDED AT: 1359
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	FILTER SIZE: _____ μm
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N <input type="checkbox"/>	TUBING <input checked="" type="checkbox"/> N (replaced) <input type="checkbox"/>	DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	Final pH/Temp			

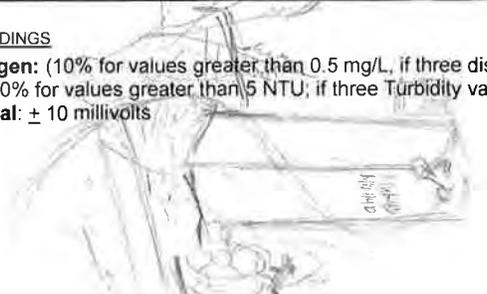
REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 3% **Specific Conductance:** ± 3% **Dissolved Oxygen:** (10% for values greater than 0.5 mg/L, if three dissolved oxygen values are less than 0.5 mg/L, consider the values as stabilized) **Turbidity:** (10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized) **Oxidation/Reduction Potential:** ± 10 millivolts



600mL/m

GROUNDWATER SAMPLING LOG

791

SITE NAME: <u>White Bluff</u>		SITE LOCATION: <u>Redfield Av.</u>	
WELL NO: <u>MW-115D</u>		SAMPLE ID: <u>MW-115D</u>	
DATE: <u>9/17/05</u>			

PURGING DATA

WELL DIAMETER (inches): <u>4"</u>	TUBING DIAMETER (inches): <u>1/4"</u>	TOTAL WATER DEPTH (feet): <u>93.16</u>	STATIC DEPTH TO WATER (feet): <u>75.22</u>	PURGE PUMP TYPE OR BAILER: <u>BP</u>							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)											
= (<u> </u> feet - <u> </u> feet) X <u> </u> gallons/foot = <u> </u> gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
= <u> </u> gallons + (<u> </u> gallons/foot X <u> </u> feet) + <u> </u> gallons = <u> </u> gallons											
PUMP OR TUBING DEPTH IN WELL (feet): <u>851</u>	WELL SCREEN INTERVAL DEPTH: feet to feet		PURGING INITIATED AT: <u>1150</u>	PURGING ENDED AT: <u>1250</u>	TOTAL VOLUME PURGED (gallons): <u>94</u>						
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	Redox (mV)	Turbidity (NTU)	COLOR / ODOR (describe)
1155	.08	.08	.016	75.4	5.29	32.45	815	5.54	166	36.3	
1200	.08	.16			5.77	27.42	597	0.85	-56	22.8	
1205	.08	.24			5.77	28.34	522	0.71	-77	12.7	
1210	.08	.32		76.00	5.64	28.08	497	0.66	-74	14.1	
1215	.08	.40			5.99	27.77	494	0.74	-90	8.2	
1220	.08	.48			6.24	27.55	496	0.81	-101	7.9	
1225	.08	.56		76.71	6.04	27.34	495	.91	-112	6.0	
1230	.08	.64			6.83	27.12	498	0.87	-124	5.0	
1235	.08	.72			6.95	27.28	500	0.89	-126	4.8	
1240	.08	.80		77.30	7.38	27.32	497	0.94	-145	5.0	
1245	.08	.88			7.44	27.24	494	0.91	-147	5.0	
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88											
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>JLC/MSD</u>				SAMPLER(S) SIGNATURE(S): <u>JLC/MSD</u>				SAMPLING INITIATED AT: <u>1250</u>		SAMPLING ENDED AT: <u>1254</u>		
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE:		FIELD-FILTERED: Y <input checked="" type="checkbox"/> N			FILTER SIZE: <u> </u> μm			
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N				TUBING <input checked="" type="checkbox"/> N (replaced)				DUPLICATE: Y <input checked="" type="checkbox"/> N				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)		
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	Final pH/Temp						
				<u>see log</u>								
REMARKS:												
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)												
SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)												

NOTES: 1. The above do not constitute all of the information required by
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS
 pH: ± 0.1 units Temperature: ± 3% Specific Conductance: ± 3% Dissolved Oxygen: (10% for values greater than 0.5 mg/L, if three dissolved oxygen values are less than 0.5 mg/L, consider the values as stabilized) Turbidity: (10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized) Oxidation/Reduction Potential: ± 10 millivolts

1/2

100mL/mm

GROUNDWATER SAMPLING LOG

SITE NAME: <u>White Bluff</u>	SITE LOCATION: <u>Redfield, Ar</u>
WELL NO: <u>MW-118D</u>	SAMPLE ID: <u>MW-118D</u> DATE: <u>9/16/25</u>

PURGING DATA

WELL DIAMETER (inches): <u>2"</u>	TUBING DIAMETER (inches): <u>1/4"</u>	TOTAL WATER DEPTH (feet): <u>72.21</u>	STATIC DEPTH TO WATER (feet): <u>41.03</u>	PURGE PUMP TYPE OR BAILER: <u>BP</u>							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)											
= (feet - feet) X gallons/foot = <u>N/A</u> gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
= gallons + (gallons/foot X feet) + gallons = <u>N/A</u> gallons											
PUMP OR TUBING DEPTH IN WELL (feet): <u>46'</u>	WELL SCREEN INTERVAL DEPTH: feet to feet		PURGING INITIATED AT: <u>1410</u>	PURGING ENDED AT: <u>1435</u>	TOTAL VOLUME PURGED (gallons): <u>.66</u>						
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND (circle units) μmhos/cm or (μS/cm)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	Redox (mV)	Turbidity (NTU)	COLOR / ODOR (describe)
<u>1415</u>	<u>.132</u>	<u>.132</u>	<u>.026</u>	<u>41.31</u>	<u>7.46</u>	<u>31.08</u>	<u>579</u>	<u>5.08</u>	<u>10</u>	<u>8.7</u>	
<u>1420</u>	<u>.132</u>	<u>.264</u>			<u>6.78</u>	<u>35.26</u>	<u>709</u>	<u>5.18</u>	<u>81</u>	<u>6.0</u>	
<u>1425</u>	<u>.132</u>	<u>.396</u>			<u>6.72</u>	<u>33.95</u>	<u>731</u>	<u>5.00</u>	<u>82</u>	<u>1.8</u>	
<u>1430</u>	<u>.132</u>	<u>.528</u>		<u>41.43</u>	<u>6.75</u>	<u>33.57</u>	<u>736</u>	<u>4.81</u>	<u>83</u>	<u>0.2</u>	
<u>1435</u>	<u>.132</u>	<u>.66</u>		<u>41.45</u>	<u>6.69</u>	<u>33.45</u>	<u>736</u>	<u>4.60</u>	<u>90</u>	<u>0.0</u>	
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88											
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>JLC/MSD</u>				SAMPLER(S) SIGNATURE(S): <u>JLC/MSD</u>				SAMPLING INITIATED AT: <u>1435</u>		SAMPLING ENDED AT: <u>1440</u>			
PUMP OR TUBING DEPTH IN WELL (feet): <u>46'</u>				TUBING MATERIAL CODE:		FIELD-FILTERED: Y N FILTER SIZE: _____ μm			Filtration Equipment Type:				
FIELD DECONTAMINATION: PUMP <input checked="" type="radio"/> N TUBING <input checked="" type="radio"/> N (replaced)				DUPLICATE: Y N									
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	Final pH/Temp							
<u>see TOC</u>													

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

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