

West Des Moines, IA

PROJECT: WRD,FY26 Env Comp,IA DATE: 1/29/2026
27224309.26

SUBJECT: Wayne-Ringgold-Decatur County TRANSMITTAL ID: 00003
Sanitary Landfill, South MSWLF
Unit - 27-SDP-01-75P - 2025
Annual Water Quality Report,
Leachate Control System
Performance Evaluation Report,
and Landfill Gas Annual Report

PURPOSE: For your approval VIA: Info Exchange

FROM

NAME	COMPANY	EMAIL	PHONE
Sean Marczewski West Des Moines, IA	SCS Engineers	SMarczewski@scsengineers.com	+1-515-631-6152

TO

NAME	COMPANY	EMAIL	PHONE
Mike Smith 502 East 9th Street Des Moines IA 50319-0034 United States	Iowa, State of	mike.smith@dnr.iowa.gov	515-725-8200

REMARKS: Mike -

Please find for download the Wayne-Ringgold-Decatur County Sanitary Landfill, South MSWLF Unit 2025 Annual Water Quality Report, Leachate Control System Performance Evaluation Report, and Landfill Gas Annual Report . Please let us know if you have any questions or comments.

Sean A. Marczewski
Senior Project Professional
SCS Engineers
1690 All-State Court, Suite 100
West Des Moines, Iowa 50265
712-661-9682 (C)
515-631-6152 (O)
smarczewski@scsengineers.com

Driven by Client Success!
www.scsengineers.com

Transmittal

DATE: 1/29/2026
TRANSMITTAL ID: 00003

DESCRIPTION OF CONTENTS

QTY	DATED	TITLE	NOTES
1	1/29/2026	WRD County Sanitary Landfill, South MSWLF Unit - 27-SDP-01-75P - 2025 AWQR.LCSPER.MMR 01.29.2026.pdf	

COPIES:

Becky Jolly	
Doug Collier	(Wayne Ringgold Decatur Solid Waste Management Commission)
Sean Marczewski	(SCS Engineers)
Semir Omerovic	(SCS Engineers)

January 29, 2026
File No. 27224309.26

Mr. Mike Smith
Iowa Department of Natural Resources
Land Quality Bureau
6200 Park Avenue
Des Moines, Iowa 50321

Subject: 2025 Annual Water Quality Report, 2025 Leachate Control System Performance
Evaluation Report, and 2025 Landfill Gas Annual Report
Wayne-Ringgold-Decatur County Sanitary Landfill
South MSWLF Unit
Permit No. 27-SDP-01-75P

Dear Mike:

SCS Engineers, on behalf of the Wayne-Ringgold-Decatur County Solid Waste Management Commission, has completed the required groundwater monitoring and statistical evaluation for the Wayne-Ringgold-Decatur County Sanitary Landfill (Landfill) South Municipal Solid Waste Landfill Unit (South MSWLF Unit) for the year 2025 and an evaluation of the leachate control system and methane monitoring network. Services were performed in general accordance with Iowa Administrative Code (IAC) 567-113.10, 113.7(5)"b"(14), 113.9, and the current requirements for implementation of the Hydrologic Monitoring System Plan for the Landfill. Please find enclosed a copy of the 2025 Annual Water Quality Report, 2025 Leachate Control System Performance Evaluation Report, and 2025 Landfill Gas Annual Report for the Landfill.

If you have any questions regarding these reports, please contact Sean Marczewski at (712) 661-9682.

Sincerely,



Semir Omerovic
Associate Professional
SCS Engineers



Sean Marczewski
Senior Project Professional
SCS Engineers

SO/SAM

Copies: Ms. Sheila Caldwell and Mr. Doug Collier, WRD Sanitary Landfill





2025 Annual Water Quality Report, Leachate Control System Performance Evaluation Report, And Landfill Gas Annual Report

Wayne-Ringgold-Decatur County Sanitary Landfill
South MSWLF Unit
Solid Waste Permit No. 27-SDP-01-75P

Prepared for:

Wayne-Ringgold-Decatur County Sanitary Landfill

SCS ENGINEERS

27224309.26 | January 2026

1690 All-State Court, Suite 100
West Des Moines, IA 50265
515-631-6160

Table of Contents

Section	Page
Certification	iii
Executive Summary.....	iv
Acronyms/Abbreviations.....	v
1.0 Site Background	1
1.1 Site Location	1
1.2 Facility	1
1.3 Geology and Hydrogeology of the Site	1
2.0 Figures Discussion.....	2
2.1 Figure 1 – Approved Monitoring Network.....	2
2.2 Figure 2 – Groundwater Contours.....	2
3.0 Standards History Graphs	3
4.0 QA/QC Summary.....	3
5.0 Data Evaluation and Summary	3
5.1 Data Evaluation	3
6.0 Recommendations	4
6.1 Site Impact on Groundwater.....	4
6.2 Proposed Monitoring.....	4
6.3 Proposed Monitoring Well Changes	4

Tables

Table 1.	Monitoring Program Summary
Table 2.	Monitoring Program Implementation Schedule
Table 3.	Monitoring Well Maintenance and Performance Re-Evaluation Schedule
Table 4.	Monitoring Well Performance and Maintenance Summary
Table 5.	Background and GWPS Summary
Table 6.	Summary of Well/Detected Constituent Pairs with No Previous SSIs
Table 7.	Summary Table of Ongoing and Newly Identified SSIs
Table 8.	Summary Table of Ongoing and Newly Identified SSLs
Table 9.	Summary of Groundwater Chemistry
Table 10.	Historical SSIs and SSLs
Table 11.	Corrective Action Trend Analysis

Figures

Figure 1.	Approved Monitoring Network
Figure 2.	Groundwater Contours

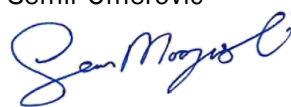
Appendices

Appendix A	Field Sampling Forms
Appendix B-1	Laboratory Analytical Data Sheets
Appendix B-2	Data Validation
Appendix C	Summary of Groundwater Chemistry
Appendix D	Summary of Statistical Method and Output
Appendix E	2025 Leachate Control System Performance Evaluation Report
Appendix F	2025 Landfill Gas Annual Report
Appendix G	Standards History Graphs

CERTIFICATION

Prepared by:  Date: January 29, 2026

Typed: Semir Omerovic

Reviewed by:  Date: January 29, 2026

Typed: Sean Marczewski

Certification page (PE or ground water scientist signature) **113.10(1)"d"**

For the purposes of this rule, a "qualified groundwater scientist" means a scientist or an engineer who has received a baccalaureate or postgraduate degree in the natural sciences or engineering and has sufficient training and experience in groundwater hydrology and related fields demonstrated by state registration, professional certifications, or completion of accredited university programs that enable that individual to make sound professional judgments regarding groundwater monitoring, contaminant fate and transport, and corrective action.

EXECUTIVE SUMMARY

ES.1 Period of Report Coverage

The period of report coverage is from January to December 2025 and includes the May and November 2025 semi-annual sampling events.

ES.2 Report Priority

The following summarizes report priorities associated with groundwater compliance at the South municipal solid waste landfill unit (South MSWLF unit) at the Wayne-Ringgold-Decatur County Sanitary Landfill (Landfill):

- Department review urgency: None
- Department review impact on rules schedule: None.
- Actions or activities on hold pending Department review or comment: None.
- Actions and/or permit amendments needed: None.

ES.3 Site Status and Applicable Rules

- Landfill Status: Active
- Types of waste accepted: MSW, Construction & Demolition (C&D)
- Applicable IAC rules: 2009 567-113.10

ES.4 Comments

In accordance with DNR correspondence dated December 19, 2024 (Doc #111521), monitoring wells MW-22, MW-23, MW-24, and MW-25 were abandoned as part of the Cell 5 construction prior to the November 2025 sampling event.

An SSI for selenium was indicated in monitoring well MW-30L during the 2025 Semi-Annual Sampling Notification (Doc #113617) dated August 5, 2025. Retesting occurred in October 2025 prior to the 2nd 2025 semi-annual sampling event and the SSI was not confirmed.

ACRONYMS/ABBREVIATIONS

ACM = Assessment of Corrective Measures
CAMP = Corrective Action Groundwater Monitoring Program
CCV = Continuing Calibration Verification
CL = Control Limit - Mean plus Two Standard Deviations
COC = Chain of Custody
DNR = Iowa Department of Natural Resources
DO = Dissolved Oxygen
DQR = Double Quantification Rule
GWPS = Groundwater Protection Standard
LEL = Lower Explosive Limit
LCL = Lower Confidence Limit
LCS = Laboratory Control Sample
LN = Lognormal
MCL = EPA Maximum Contaminant Level
MS/MSD = Matrix Spike/Matrix Spike Duplicate
MSW = Municipal Solid Waste
N = Normal
NC = No Change
NM = Not Measured
NP = Non-Parametric
ORP = Oxidation-Reduction Potential
P = Parametric
PL = Prediction Limit
RL = Reporting Limit
RPD = Relative Percent Difference
SWS = DNR Statewide Standard for a protected groundwater source
SSI = Statistically Significant Increase above background
SSL = Statistically Significant Level above groundwater protection standard
SSS = Site-Specific Standard (Site-Specific GWPS)
TSS = Total Suspended Solids
UCL = Upper Confidence Limit
VOC = Volatile Organic Compound

1.0 SITE BACKGROUND

1.1 SITE LOCATION

The Landfill property is depicted on **Figure 1**, Approved Monitoring Network. The Landfill is located on a 156-acre plot of land west of Iowa Highway 294, one-half mile north of the junction of County Road R-15 and Iowa Highway 2. The Landfill is located approximately six miles south of Grand River, generally in the S $\frac{1}{2}$, NE $\frac{1}{4}$, and the N $\frac{1}{2}$, SE $\frac{1}{4}$ of Section 33, T69N, R27W, in Decatur County, Iowa.

1.2 FACILITY

The Landfill began accepting waste around 1973 and has been a permitted facility since 1975. The Landfill has received waste since that time. The Landfill is comprised of two areas: the North MSWLF unit, which was certified by the Iowa Department of Natural Resources (DNR) as closed as of November 25, 2008, and the South MSWLF unit, which is the active MSWLF unit currently consisting of the Phase 1, 2, 3, 4, 5, and 6 cells.

1.3 GEOLOGY AND HYDROGEOLOGY OF THE SITE

In the document entitled *Hydrogeological Assessment Report*, dated July 22, 2004, (2004 HAR, Doc #42526) prepared by Barker Lemar Engineering Consultants, the following geological description was included:

The site is located in the Southern Iowa Drift Plain (Cagle, 1973). These areas usually consist of loess caps on hills made of glacial till. Typically, loess may be absent on valley sideslopes due to erosion.

*Cross-sections and corresponding soil profiles from the 2004 HAR based on borings advanced in the vicinity of the North and South MSWLF units were provided in Appendix A of the Revised HMSF dated September 16, 2008 (Doc #31567). The December 1991 Green Environmental Services (1991 GES) document entitled *The Hydrogeologic Investigation Report and Hydrologic Monitoring System Plan for the Wayne-Ringgold-Decatur County Sanitary Landfill* (Doc #37535), stated that approximately six to seven and a half feet of loess are present naturally at the surface underlain by thick glacial till with intermittent sand lenses dispersed in the till layer. The glacial till layer was estimated to be between 80 and 150 feet thick. The 1991 GES report concluded that the thickness of this layer was adequate to prevent contamination by leachate of the local aquifers.*

The till is underlain by Pennsylvanian bedrock (1991 GES). The upper part of the Pennsylvanian bedrock consists mainly of interbedded shale and limestone. Deeper portions of the bedrock also contain some sandstone. The top of the bedrock is located between 950 and 975 feet above mean sea level (amsl) and is estimated as 735 feet thick just southeast of the Landfill. The Landfill is located on a bedrock high and is an adequate distance from the major aquifer channels (Hatfield, Leon, and Decatur) to not affect the quality of the water in these aquifers (1991 GES).

The boring logs for monitoring wells MW-16, MW-19, and MW-21 indicated layers identified as alluvium 13 feet, 7 feet, and 6.5 feet thick (based on narrative description), respectively; however,

the boring logs for monitoring wells MW-26R and MW-31, which are located lower in the ravine where increased alluvial deposits would be expected, did not encounter alluvium.

According to the 2004 HAR, the groundwater table present in the upper layer of the glacial till is considered the uppermost aquifer. The 1991 GES report indicated that the groundwater beneath the east-west ridge along the north part of the property flows north and south from the high point of the ridge: "(The) horizontal flow directions in the upper saturated zone are to the north and converging toward the ravines in the southern part of the landfill property."

The 2004 HAR provided a description of the hydrogeological units at the Landfill as follows:

The stratigraphy in the proposed lateral expansion area agrees with the previous studies done at the site. Thin, intermittent layers of loess are underlain by a thick glacial till layer (Figures 4 through 7) [not included in this report]. The glacial till layer ranges from silty lean clay with traces of sand and gravel to sandy lean clay. Intermittent sand lenses were also encountered. The absence of an alluvial layer while boring to a depth of 100 feet for monitoring well MW-25 suggests either the alluvial layer deepens heading southwest or it discontinues altogether.

As stated in Section 113.18(1), sand layers were encountered, which were described as intermittent sand lenses in the 1991 report. These sand layers were also encountered during recent drilling for the proposed lateral expansion area and were found to be relatively thin, generally one to two feet thick. Additionally, because of the relative locations of the wells with and without sand seams, no definite continuity of these sand layers could be established. This observation indicates that these sand layers are discontinuous sand lenses.

2.0 FIGURES DISCUSSION

The following figures are attached.

2.1 FIGURE 1 – APPROVED MONITORING NETWORK

The Landfill property and hydrologic monitoring system plan (HMSP) monitoring network are depicted in **Figure 1**. **Figure 1** indicates the respective monitoring programs of the HMSP monitoring points.

2.2 FIGURE 2 – GROUNDWATER CONTOURS

An evaluation of water level conditions in the monitoring wells to ensure that the effects of Landfill operation/development have not resulted in changes in the hydrologic setting and resultant flow paths was conducted. A groundwater contour map based on groundwater levels measured during the May 2025 sampling event is included in **Figure 2**. Water level measurements in monitoring wells MW-22, MW-23, MW-24, and MW-25 during the May 2025 sampling event are included. The monitoring wells were abandoned prior to the 2nd 2025 semi-annual sampling event (Doc #111521). Leachate level elevations are included for reference but are not taken into consideration when determining the groundwater contours as the leachate in the South MSWLF unit is contained within composite-lined cells and can be assumed separate from the groundwater. It is not known whether the leachate levels measured in the North MSWLF unit are in hydraulic communication with the groundwater or represent perched leachate within the waste mass. The groundwater contours, which represent the surficial groundwater table elevations, indicate flow to the southeast beneath the South MSWLF unit. This flow direction is consistent with previous groundwater contour maps.

3.0 STANDARDS HISTORY GRAPHS

Standards history graphs are included in **Appendix G**. Standards history graphs for the following parameters are included:

- Arsenic
- Barium
- Cadmium
- Chromium
- Cobalt
- Copper
- Lead
- Nickel
- Selenium (Only MW-30L)
- Silver
- Thallium
- Vanadium
- Zinc

In all instances, the prediction limit was below the GWPS. As antimony and beryllium were not detected in the monitoring network, graphs are not included.

4.0 QA/QC SUMMARY

The quality assurance/quality control (QA/QC) program for the Landfill followed similar protocols as included in the HMSP. Data validation procedures were performed on analytical results for laboratory quality control samples, and a quality assurance assessment of the data was conducted as the data were generated. The QA review procedure provided documentation of the accuracy and precision of the analytical data and confirmed that the analyses were sufficiently sensitive to detect constituents at levels below regulatory standards when technically feasible with the laboratory method utilized. SCS then conducted QA/QC data validation of the produced data, which included a review of sample handling, analytical sensitivity, blanks, accuracy, and precision. A summary of the laboratory QA/QC and data validation can be found in **Appendices B-1**, Laboratory Data, and **B-2**, Data Validation, respectively. The QA/QC review indicated that the data was acceptable.

5.0 DATA EVALUATION AND SUMMARY

Detection monitoring statistical evaluation in accordance with the requirements of IAC 567-113.10(5) was conducted for the groundwater analytical data collected during the 2025 semi-annual sampling events. The statistical evaluation for samples collected during this reporting period is located in **Appendix D**, Summary of Statistical Method and Output.

Groundwater monitoring for the Landfill consists of three monitoring points located southeast of the South MSWLF unit.

5.1 DATA EVALUATION

In general, groundwater quality in the vicinity of the South MSWLF unit does not appear to have been impacted by a release from the Landfill. No volatile organic compounds (VOCs) were detected, and an SSI for selenium was indicated in monitoring well MW-30L during the 2025 Semi-Annual Sampling Notification (Doc #113617) dated August 5, 2025. Retesting occurred in October 2025 prior to the 2nd 2025 semi-annual sampling event and the SSI was not confirmed. A total of two inorganic parameters were detected for barium and selenium during this reporting period. None of

the detected parameters exceeded their respective GWPS. Monitoring point UO-4 was dry during both 2025 semi-annual sampling events and has insufficient data to perform prediction limit analysis at this time.

6.0 RECOMMENDATIONS

6.1 SITE IMPACT ON GROUNDWATER

There are no issues to be remedied regarding groundwater at the South MSWLF unit that are recommended at this time.

6.2 PROPOSED MONITORING

No changes to the HMSP monitoring program are recommended at this time.

6.3 PROPOSED MONITORING WELL CHANGES

There are no proposed monitoring well changes at this time.

Tables

Table 1
Monitoring Program Summary Table
2025 Annual Water Quality Report
South MSWLF Unit
WRD County Landfill
Permit No. 27-SDP-01-75P

Monitoring Well	Formation ⁽¹⁾	Current Monitoring Program	Change for Next Sampling Event	Constituents with SSI	Constituents with SSLs	Total Number of Samples in Each Monitoring Program		
						Detection Inorganic/Organic	Assessment Inorganic/Organic	Pre-Corrective Action Inorganic/Organic
HMSP Monitoring Points								
MW-30L	Clay	Detection	No change	None	Not Applicable	21/37	-	-
MW-31	Clay	Detection	No change	None	Not Applicable	21/37	-	-
UO-4	Underdrain	Detection	No change	None	Not Applicable	4/7	-	-
Other Monitoring Points								
MW-22*	Clay, trace gravel	Water Level						
MW-23*	Clay, trace sand and gravel, sand seam	Water Level						
MW-24*	Clay, trace sand and gravel	Water Level						
MW-25*	Clay, trace sand and gravel	Water Level						

Notes:

⁽¹⁾ Obtained from screened interval on boring logs.

SSI - Statistically Significant Increase above background.

SSL - Statistically Significant Level above groundwater protection standard.

*- In accordance with DNR correspondence dated December 19, 2024 (Doc #111521), monitoring point was abandoned with the Cell 5 construction prior to the November 2025 sampling event.

Table 2
Monitoring Program Implementation Schedule
2025 Annual Water Quality Report
South MSWLF Unit
WRD County Landfill
Permit No. 27-SDP-01-75P

Monitoring Well	Recent Sampling Dates and Constituents		Upcoming Sampling Events		Full Appendix II Sample Dates	
	May 2025 Semi-Annual	November 2025 Semi-Annual	1 st 2026 Semi-Annual	2 nd 2026 Semi-Annual	Previously Collected	Next Event
MW-30L	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	NA	NA
MW-31	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	NA	NA
UO-4	None (Dry)	None (Dry)	Appendix I, TSS	Appendix I, TSS	NA	NA

Notes:

TSS - Total Suspended Solids.

NA - Not Applicable - Monitoring points are in the detection monitoring program, therefore are not required to be sampled for Appendix II constituents. If any monitoring point has a confirmed SSI, then that monitoring point will be sampled for Appendix II parameters and placed in the assessment monitoring program.

Table 3
Monitoring Well Maintenance and Performance Re-Evaluation Schedule
2025 Annual Water Quality Report
South MSWLF Unit
WRD County Landfill
Permit No. 27-SDP-01-75P

Compliance with:	2023	2024	2025	2026
567 IAC 113.10(2)"f"(1) high and low water levels	Completed	Completed	Included ⁽²⁾	Scheduled
567 IAC 113.10(2)"f"(2) changes in the hydrologic setting and flow paths	Completed	Completed	Included ⁽¹⁾	Scheduled
567 IAC 113.10(2)"f"(3) well depths	Completed	Completed	Included ⁽²⁾	Scheduled
567 IAC 113.10(2)"f"(4) well recharge rates and chemistry		Completed		Scheduled

Notes:

⁽¹⁾ See Section 2.2 of this report.

⁽²⁾ See Table 4.

Comments:

None.

Table 4
Monitoring Well Performance and Maintenance Summary
2025 Annual Water Quality Report
South MSWLF Unit
WRD County Landfill
Permit No. 27-SDP-01-75P

Well	Top of Casing	Top of Screen	Total Depth		Date of Measurements		Maximum Depth Discrepancy (ft)
					5/8/2025	11/10/2025	
MW-30L	1026.75	1009.3	27.4	Groundwater Level (ft)	13.81	15.00	-0.1
				Groundwater Elevation (Ft MSL)	1012.94	1011.75	
				Measured Well Depth (ft)	27.5	27.4	
				Submerged screen	Y	Y	
MW-31	1031.12	998.6	42.6	Groundwater Level (ft)	15.25	14.12	0.5
				Groundwater Elevation (Ft MSL)	1015.87	1017.00	
				Measured Well Depth (ft)	42.2	42.1	
				Submerged screen	Y	Y	

Comments:

- 1) Measured well depths were within 0.5 feet of the installed depths.

Table 5
Background and GWPS Summary Tables
2025 Annual Water Quality Report
South MSWLF Unit
WRD County Landfill
Permit No. 27-SDP-01-75P

Intrawell Background / GWPS - MW-30L										
Constituent	Units	Samples	Detections	Min	Max	Mean	Background Level	Statistical Test	GWPS	Source
Antimony (Sb)	mg/L	20	0	0.0005 (1/2 RL)	0.0015 (1/2 RL)	0.00078	< 0.003	DQR	0.006	MCL
Arsenic (As)	mg/L	20	2	0.0008975*	0.001745	0.00103	0.001745	PL (NP)	0.01	MCL
Barium (Ba)	mg/L	20	20	0.0757	0.1195	0.09461	0.1198	PL (P)	2	MCL
Beryllium (Be)	mg/L	20	0	0.0005 (1/2 RL)	0.0005 (1/2 RL)	0.00050	< 0.001	DQR	0.004	MCL
Cadmium (Cd)	mg/L	20	4	0.00005 (1/2 RL)	0.00025 (1/2 RL)	0.00011	0.00025	PL (NP)	0.005	MCL
Chromium (Cr)	mg/L	20	4	0.000662*	0.0039*	0.00242	0.0039	PL (NP)	0.1	MCL
Cobalt (Co)	mg/L	20	5	0.000072*	0.0005 (1/2 RL)	0.00025	0.0005	PL (NP)	0.0021	SWS
Copper (Cu)	mg/L	20	3	0.0007515*	0.00398	0.00240	0.00398	PL (NP)	1.3	MCL
Lead (Pb)	mg/L	20	2	0.00025 (1/2 RL)	0.000294*	0.00025	0.000294	PL (NP)	0.015	MCL
Nickel (Ni)	mg/L	20	4	0.00077*	0.0025 (1/2 RL)	0.00226	0.0025	PL (NP)	0.1	SWS
Selenium (Se)	mg/L	15	15	0.00385*	0.005495	0.00454	0.005665	PL (P)	0.05	MCL
Silver (Ag)	mg/L	20	1	0.000146*	0.0005 (1/2 RL)	0.00047	0.0005	PL (NP)	0.1	SWS
Thallium (Tl)	mg/L	20	2	0.0000325*	0.001 (1/2 RL)	0.00049	0.001	PL (NP)	0.002	MCL
Vanadium (V)	mg/L	20	11	0.000665*	0.0038*	0.00184	0.0038	PL (P)	0.035	SWS
Zinc (Zn)	mg/L	20	1	0.005 (1/2 RL)	0.0789	0.01270	0.0789	PL (NP)	2	SWS

Intrawell Background / GWPS - MW-31										
Constituent	Units	Samples	Detections	Min	Max	Mean	Background Level	Statistical Test	GWPS	Source
Antimony (Sb)	mg/L	20	0	0.0005 (1/2 RL)	0.0015 (1/2 RL)	0.00078	< 0.003	DQR	0.006	MCL
Arsenic (As)	mg/L	20	1	0.001 (1/2 RL)	0.00161	0.00103	0.00161	PL (NP)	0.01	MCL
Barium (Ba)	mg/L	20	20	0.109	0.178	0.13588	0.1681	PL (P)	2	MCL
Beryllium (Be)	mg/L	20	0	0.0005 (1/2 RL)	0.0005 (1/2 RL)	0.00050	< 0.001	DQR	0.004	MCL
Cadmium (Cd)	mg/L	22	19	0.000051*	0.00025 (1/2 RL)	0.00012	0.000246	PL (P)	0.005	MCL
Chromium (Cr)	mg/L	20	2	0.00146*	0.004*	0.00252	0.004	PL (NP)	0.1	MCL
Cobalt (Co)	mg/L	20	8	0.000029*	0.0005 (1/2 RL)	0.00023	0.0005	PL (NP)	0.0021	SWS
Copper (Cu)	mg/L	20	2	0.000851*	0.0025 (1/2 RL)	0.00234	0.0025	PL (NP)	1.3	MCL
Lead (Pb)	mg/L	20	1	0.00025 (1/2 RL)	0.000304*	0.00025	0.000304	PL (NP)	0.015	MCL
Nickel (Ni)	mg/L	20	15	0.00162*	0.00317	0.00234	0.00316	PL (P)	0.1	SWS
Selenium (Se)	mg/L	20	0	0.00125 (1/2 RL)	0.0025 (1/2 RL)	0.00244	< 0.005	DQR	0.05	MCL
Silver (Ag)	mg/L	20	2	0.000169*	0.0005 (1/2 RL)	0.00046	0.0005	PL (NP)	0.1	SWS
Thallium (Tl)	mg/L	20	3	0.000045*	0.001 (1/2 RL)	0.00046	0.001	PL (NP)	0.002	MCL
Vanadium (V)	mg/L	20	6	0.000473*	0.00392*	0.00219	0.00392	PL (NP)	0.035	SWS
Zinc (Zn)	mg/L	20	1	0.005 (1/2 RL)	0.076	0.01255	0.076	PL (NP)	2	SWS

Notes:

- 1) Background levels based on calculated prediction limits or reporting limit, as applicable.
* - Indicates a J flag detection. Concentration is below the reporting limit but above the method detection limit. The concentration is estimated.

Acronyms/Abbreviations:	
RL = Reporting Limit	PL = Prediction Limit
GWPS = Groundwater Protection Standard (mg/L)	MCL = EPA Maximum Contaminant Level
DQR = Double Quantification Rule	NP = Non-Parametric
SSS = Site-Specific GWPS	P = Parametric
SWS = Statewide Standard	

Comments:

Water quality results and effectiveness of the statistical data evaluation criteria: Statistical evaluations consist of prediction limits.
Changes to the previous statistical method during reporting period: None.
Re-sampling strategy: Retesting is performed on a 1-of-2 scheme.
Justification for data exclusion: Inorganic data from the sampling events that occurred prior to the implementation of low-flow sampling, which began during the 2nd 2015 semi-annual sampling event, were removed from statistical consideration beginning with the 2nd 2020 semi-annual statistical evaluation. This was due to the effect that high total suspended solids (TSS) concentrations likely had on inorganic concentrations.

Table 6
Summary of Well/Detected Constituent Pairs With No Previous SSIs
2025 Annual Water Quality Report
South MSWLF Unit
WRD County Landfill
Permit No. 27-SDP-01-75P

Well	Constituent	Units	Most Recent Result	Background Standard
None				

Notes:

- ⁽¹⁾ Criteria for inclusion in this table is a well/constituent pair with a statistically significant increase above background (SSI) during this current reporting period and no SSI in the immediately preceding reporting period.
- ⁽²⁾ There were no newly recorded SSIs during this reporting period.

Comments:

- 1) **Problems with the current detection network:** Monitoring point UO-4 has only had four accepted inorganic samples obtained due to the monitoring point being generally consistently dry.
- 2) **Schedule to implement remedies:** Not applicable.
- 3) **Alternative constituent or sample frequency changes:** None.
- 4) **Significant changes to calculated prediction limits:** Inorganic data obtained prior to the implementation of low-flow sampling (fall 2015) was removed from statistical consideration during the 2nd 2020 semi-annual statistical evaluation. This was due to the effect that high total suspended solids concentrations likely had on inorganic concentrations.
- 5) **Resampling strategy:** Retesting is performed on a 1-of-2 retesting scheme.

Table 7
Summary Table of Ongoing and Newly Identified SSIs
2025 Annual Water Quality Report
South MSWLF Unit
WRD County Landfill
Permit No. 27-SDP-01-75P

Well	Constituent	Units	Most Recent Result	Background Standard	Lower Confidence Limit	GWPS	Sample Dates		
							Initial Exceedance	Resample(s)	5 th background sample
None									

Notes:

There are no ongoing or newly identified confirmed SSIs at the South MSWLF unit.

Comments:

- 1) **Problems with the current assessment network:** None.
- 2) **Proposed remedies:** Not applicable.
- 3) **Alternative constituent or sample frequency changes:** None.
- 4) **Plume delineation strategies:** Not applicable.
- 5) **Property owner notifications:** Not applicable.

Table 8
Summary Table of Ongoing and Newly Identified SSLs
2025 Annual Water Quality Report
South MSWLF Unit
WRD County Landfill
Permit No. 27-SDP-01-75P

Well	Constituent	Units	Most Recent Result	Upper Confidence Limit	GWPS	Initial Exceedance	Upper Confidence Limit Below GWPS					
							1 st Year		2 nd Year		3 rd Year	
None												

Notes:
There are no ongoing or newly identified SSLs at the South MSWLF unit, all monitoring wells are in the detection monitoring program.

Table 9
Summary of Groundwater Chemistry
2025 Annual Water Quality Report
South MSWLF Unit
WRD County Landfill
Permit No. 27-SDP-01-75P

The Summary of Groundwater Chemistry is located in Appendix C.

Analytical data prior to 2025 is available in the 2024 Annual Water Quality Report dated February 18, 2025 (Doc #112323).

Table 10
Historical SSI and SSL
2025 Annual Water Quality Report
South MSWLF Unit
WRD County Landfill
Permit No. 27-SDP-01-75P

Key

	SSI
	SSL

Well	Constituent	Spring 2020	Fall 2020	Spring 2021	Fall 2021	Spring 2022	Fall 2022	Spring 2023	Fall 2023	Spring 2024	Fall 2024	Spring 2025	Fall 2025
None													

Comments:

There were no SSIs and/or SSLs confirmed since the 2020 reporting period at the Landfill.

Table 11
Corrective Action Trend Analysis
2025 Annual Water Quality Report
South MSWLF Unit
WRD County Landfill
Permit No. 27-SDP-01-75P

Well	Current SSL	Trend	Calculated S	Critical S	Total N	Projected Date to Completion
None						

Notes:

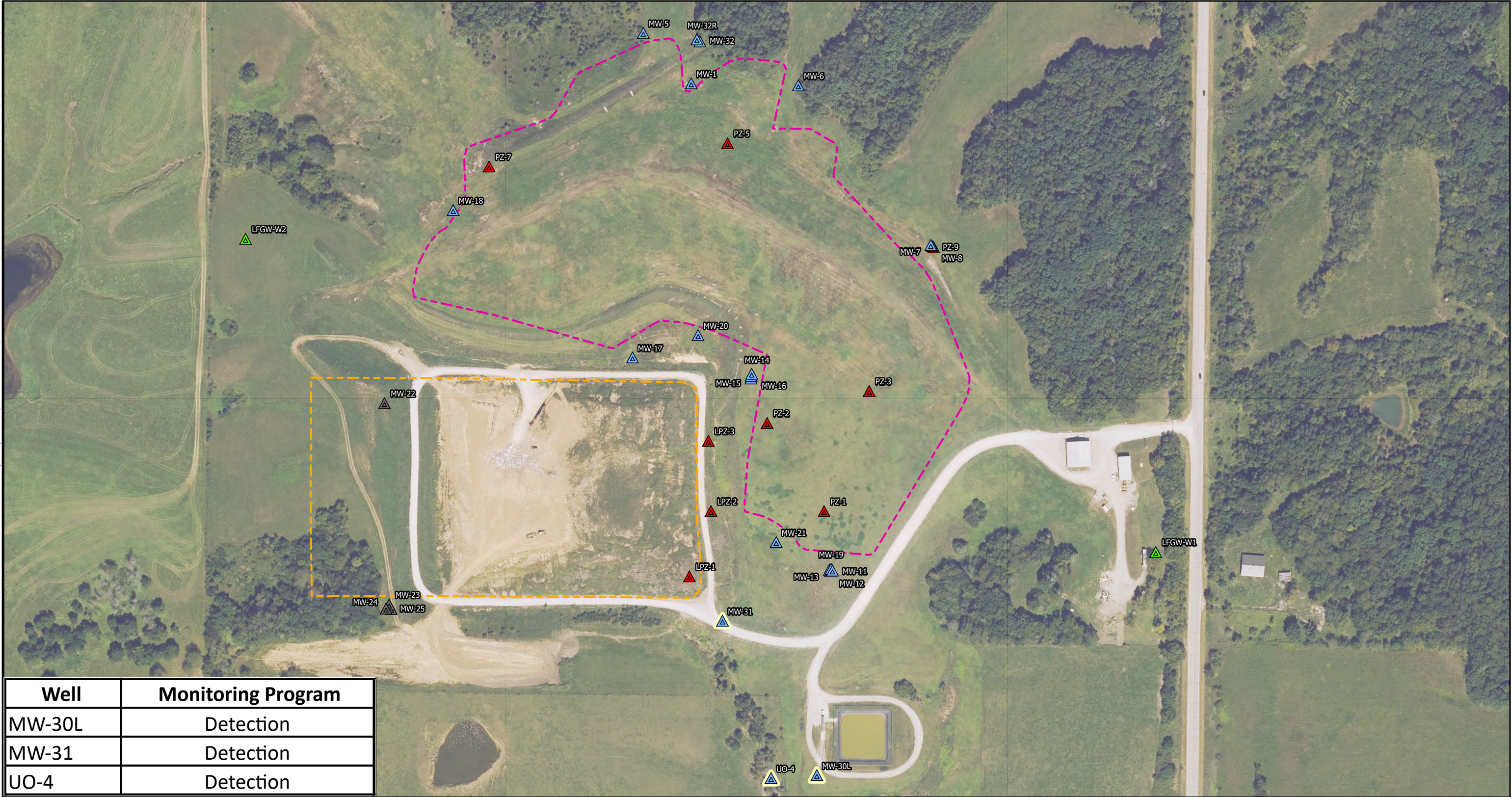
- N - Number of Samples
- S - Mann-Kendall Statistic

Comments:

- 1) There are no SSLs at the South MSWLF unit, therefore a corrective action analysis is not required.

Figures

C:\Users\hmadson\OneDrive - SCS Engineers\Desktop\GIS\Map\Drawings\Sanitary\Map\WIP\DWG-F-2022-AWOP-001.dwg
Path: C:\Users\hmadson\OneDrive - SCS Engineers\Desktop\GIS\Map\Drawings\Sanitary\Map\WIP\DWG-F-2022-AWOP-001.dwg
User: hmadson
Date Saved: 1/26/2026 8:04 PM



Well	Monitoring Program
MW-30L	Detection
MW-31	Detection
UO-4	Detection



Approved Monitoring Network

Legend

- South MSWLF HMSP Monitoring Point
- Monitoring Well
- Groundwater Underdrain
- Leachate Monitoring Well
- Landfill Gas Well
- Abandoned Monitoring Well
- Approximate Waste Boundary - South MSWLF Unit
- Approximate Waste Boundary - North MSWLF Unit
- Approximate Property Boundary

Wayne-Ringgold-Decatur
Sanitary Landfill
Grand River, IA
Project No: 27224309.26
Drawing Date: January 2026

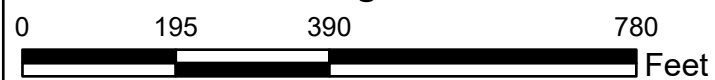
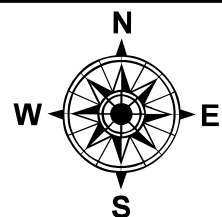


Figure 1



Appendix A

Field Sampling Forms

FORM FOR GROUNDWATER SAMPLING

Project: Wayne-Ringgold-Decatur Sanitary Landfill South			
Monitoring Well/Piezometer ID: MW-30L		Date: 5/8/2025	
Gradient: Down		Sampler: Garrett Horak	

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	27.5
Initial Static Water Level (feet):	13.81
Initial Groundwater Elevation (ft-amsl):	1071.89
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
5:02 PM	Purging start time.						
5:05 PM	14.8	3.5	962.1	6.88	174.2	3.4	
5:08 PM	14.7	3.4	962.4	6.88	173.2	3.0	
5:11 PM	14.5	3.3	963.6	6.88	173.0	2.8	
5:14 PM	14.5	3.2	962.6	6.87	172.6	3.4	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	2.0
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	166.67

D. WELL MAINTENANCE	
Does the well require any future maintenance? No	
If yes, explain:	
Additional Comments:	Color: Clear Odor: None Duplicate sample taken.

FORM FOR GROUNDWATER SAMPLING

Project: Wayne-Ringgold-Decatur Sanitary Landfill South	
Monitoring Well/Piezometer ID: MW-31	Date: 5/8/2025
Gradient: Down	Sampler: Garrett Horak

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped? Yes	
Litter/Standing Water? No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	42.2
Initial Static Water Level (feet):	15.25
Initial Groundwater Elevation (ft-amsl):	1015.87
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
3:37 PM	Purging start time.						
3:40 PM	16.7	1.4	698.9	6.77	-2.9	4.9	
3:43 PM	16.6	1.1	688.6	6.78	3.2	6.1	
3:46 PM	16.4	1.0	688.5	6.77	9.5	5.2	
3:49 PM	16.2	1.0	689.3	6.77	15.5	5.3	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	1.8
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	150.00

D. WELL MAINTENANCE	
Does the well require any future maintenance?	No
If yes, explain:	
Additional Comments:	Color: Clear Odor: Sulfur

FORM FOR SURFACE WATER SAMPLING

Site Name	WRD County Sanitary Landfill	Permit No.	27-SDP-01-75P
Surface Monitoring Point No.	UO-4	Date	5/8/2025

Name of Person Sampling Garrett Horak

A. TYPE OF MOINITORING POINT

Stream		Open Tile	X
Road Ditch		Tile with Riser	
Drainage Ditch		Other	

B. PURPOSE OF MONITORING POINT

Upstream
Within Landfill

Downstream
Other

X

C. MONITORING POINT CONDITIONS/LOCATION

Discharge point from leachate lagoon groundwater underdrain.

Was monitoring point dry?	_____	Too little water to sample?	_____
Was water flowing?	_____	If yes, estimate quantity (cfs)	_____
Standing Water?	_____	If yes, estimate depth (inches)	_____
	_____	If yes, estimate width (inches)	_____
Was water discolored?	_____		
Does water have odor?	_____		
Was ground discolored?	_____		
Litter present?	_____		

D. FIELD MEASUREMENTS

Weather Conditions: _____

Time: _____

Field Measurements:

Temperature _____ Units Celsius
Equipment Used _____

pH _____ Units _____ Standard units _____

Equipment Used _____

Spec. Conductance _____ Units _____ uS/cm
Equipment Used _____

COMMENTS

FORM FOR GROUNDWATER SAMPLING

[illegible]

FORM FOR GROUNDWATER SAMPLING

[illegible]

FORM FOR GROUNDWATER SAMPLING

Project: Wayne-Ringgold-Decatur Sanitary Landfill South	
Monitoring Well/Piezometer ID: MW-31	Date: 11/11/2025
Gradient: Down	Sampler: Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped? Yes	
Litter/Standing Water? No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	42.1
Initial Static Water Level (feet):	14.12
Initial Groundwater Elevation (ft-amsl):	1017.00
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
11:49 AM	Purging start time.						
11:52 AM	12.3	0.6	622.8	7.10	72.4	5.6	
11:55 AM	12.6	0.3	620.2	7.01	71.6	6.9	
11:58 AM	12.7	0.2	620.5	6.98	70.3	10.2	
12:01 PM	12.9	0.1	621.0	6.97	69.9	13.1	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	2.2
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	183.33

D. WELL MAINTENANCE	
Does the well require any future maintenance?	No
If yes, explain:	
Additional Comments:	Color: Clear Odor: None

FORM FOR SURFACE WATER SAMPLING

Site Name	WRD County Sanitary Landfill	Permit No.	27-SDP-01-75P
Surface Monitoring Point No	UO-4	Date	11-10-25
Name of Person Sampling	Korner Roth		

A. TYPE OF MONITORING POINT

Stream		Open Tile	X
Road Ditch		Tile with Riser	
Drainage Ditch		Other	

B. PURPOSE OF MONITORING POINT

Upstream		Downstream	X
Within Landfill		Other	

C. MONITORING POINT CONDITIONS/LOCATION

Discharge point from leachate lagoon groundwater underdrain.

Was monitoring point dry?	<u>Yes</u>	Too little water to sample?	<u>Yes</u>
Was water flowing?	<u>No</u>	If yes, estimate quantity (cfs)	<u>NA</u>
Standing Water?	<u>No</u>	If yes, estimate depth (inches)	<u>NA</u>
		If yes, estimate width (inches)	<u>NA</u>
Was water discolored?	<u>No</u>		
Does water have odor?	<u>No</u>		
Was ground discolored?	<u>No</u>		
Litter present?	<u>No</u>		

D. FIELD MEASUREMENTS

Weather Conditions: 34°F, Sunny
Time: 16:00
Field Measurements:

Temperature		Units	Celsius
Equipment Used			
pH		Units	Standard units
Equipment Used			
Spec. Conductance		Units	uS/cm
Equipment Used			

COMMENTS

Appendix B-1
Laboratory Analytical Data Sheets

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Madson
SCS Engineers
1690 All State Court
Suite 100
West Des Moines, Iowa 50265

Generated 5/21/2025 2:33:45 PM

JOB DESCRIPTION

WRD-S 1st 2025 GW Sampling Event
WRD Sanitary Landfill - South Unit

JOB NUMBER

310-306161-1

Eurofins Cedar Falls

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization



Generated
5/21/2025 2:33:45 PM

Authorized for release by
Samuel Miller, Project Management Assistant I
Samuel.Miller@et.eurofinsus.com
(319)595-2008

Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Sample Summary	5
Detection Summary	6
Client Sample Results	7
Definitions	15
Surrogate Summary	16
QC Sample Results	17
QC Association	22
Chronicle	23
Certification Summary	24
Method Summary	25
Chain of Custody	26
Receipt Checklists	28



Case Narrative

Client: SCS Engineers
Project: WRD-S 1st 2025 GW Sampling Event

Job ID: 310-306161-1

Job ID: 310-306161-1

Eurofins Cedar Falls

Job Narrative 310-306161-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 5/9/2025 4:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.4°C.

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 310-454541 recovered above the upper control limit for Carbon disulfide (23.3%D), 4-Methyl-2-pentanone (MIBK) (21.8%D) and 2-Butanone (MEK) (21.6%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is:(CCV 310-454541/3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

Method 6020B: The laboratory control sample (LCS) for preparation batch 310-454836 and analytical batch 310-455033 recovered outside control limits for the following analytes: silver. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Cedar Falls

Sample Summary

Client: SCS Engineers

Project/Site: WRD-S 1st 2025 GW Sampling Event

Job ID: 310-306161-1

SDG: WRD Sanitary Landfill - South Unit

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-306161-1	MW-30L	Water	05/08/25 17:43	05/09/25 16:00
310-306161-2	MW-31	Water	05/08/25 16:08	05/09/25 16:00
310-306161-3	MW-DS	Water	05/08/25 17:43	05/09/25 16:00
310-306161-4	Trip Blank	Water	05/08/25 00:00	05/09/25 16:00

Detection Summary

Client: SCS Engineers
Project/Site: WRD-S 1st 2025 GW Sampling Event

Job ID: 310-306161-1
SDG: WRD Sanitary Landfill - South Unit

Client Sample ID: MW-30L

Lab Sample ID: 310-306161-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0768		0.00200	0.000660	mg/L	1		6020B	Total/NA
Selenium	0.00568		0.00500	0.00140	mg/L	1		6020B	Total/NA
Total Suspended Solids	1.75	J	1.88	1.31	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-31

Lab Sample ID: 310-306161-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.131		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000101	J	0.000200	0.000100	mg/L	1		6020B	Total/NA
Total Suspended Solids	1.38	J	1.88	1.31	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-DS

Lab Sample ID: 310-306161-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0782		0.00200	0.000660	mg/L	1		6020B	Total/NA
Selenium	0.00531		0.00500	0.00140	mg/L	1		6020B	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 310-306161-4

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: WRD-S 1st 2025 GW Sampling Event

Job ID: 310-306161-1
SDG: WRD Sanitary Landfill - South Unit

Client Sample ID: MW-30L

Lab Sample ID: 310-306161-1

Date Collected: 05/08/25 17:43

Matrix: Water

Date Received: 05/09/25 16:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/14/25 01:44	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/14/25 01:44	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/14/25 01:44	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/14/25 01:44	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/14/25 01:44	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/14/25 01:44	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/14/25 01:44	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			05/14/25 01:44	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			05/14/25 01:44	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/14/25 01:44	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/14/25 01:44	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/14/25 01:44	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/14/25 01:44	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/14/25 01:44	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/14/25 01:44	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/14/25 01:44	1
Acetone	<10.0		10.0	3.10	ug/L			05/14/25 01:44	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			05/14/25 01:44	1
Benzene	<0.500		0.500	0.220	ug/L			05/14/25 01:44	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/14/25 01:44	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/14/25 01:44	1
Bromoform	<5.00		5.00	0.780	ug/L			05/14/25 01:44	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/14/25 01:44	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/14/25 01:44	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/14/25 01:44	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/14/25 01:44	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/14/25 01:44	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/14/25 01:44	1
Chloroform	<3.00		3.00	1.30	ug/L			05/14/25 01:44	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/14/25 01:44	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/14/25 01:44	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/14/25 01:44	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/14/25 01:44	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/14/25 01:44	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/14/25 01:44	1
Methylene chloride	<5.00		5.00	1.70	ug/L			05/14/25 01:44	1
Styrene	<1.00		1.00	0.370	ug/L			05/14/25 01:44	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/14/25 01:44	1
Toluene	<1.00		1.00	0.430	ug/L			05/14/25 01:44	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/14/25 01:44	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/14/25 01:44	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/14/25 01:44	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/14/25 01:44	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/14/25 01:44	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/14/25 01:44	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/14/25 01:44	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/14/25 01:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	112		76 - 130		05/14/25 01:44	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: WRD-S 1st 2025 GW Sampling Event

Job ID: 310-306161-1
SDG: WRD Sanitary Landfill - South Unit

Client Sample ID: MW-30L

Lab Sample ID: 310-306161-1

Date Collected: 05/08/25 17:43

Matrix: Water

Date Received: 05/09/25 16:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		80 - 120		05/14/25 01:44	1
4-Bromofluorobenzene (Surr)	97		80 - 120		05/14/25 01:44	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		05/16/25 08:30	05/16/25 19:59	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/16/25 08:30	05/16/25 19:59	1
Barium	0.0768		0.00200	0.000660	mg/L		05/16/25 08:30	05/16/25 19:59	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/16/25 08:30	05/16/25 19:59	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/16/25 08:30	05/16/25 19:59	1
Chromium	<0.00500		0.00500	0.00180	mg/L		05/16/25 08:30	05/16/25 19:59	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/16/25 08:30	05/16/25 19:59	1
Copper	<0.00500		0.00500	0.00320	mg/L		05/16/25 08:30	05/16/25 19:59	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/16/25 08:30	05/16/25 19:59	1
Nickel	<0.00500		0.00500	0.00230	mg/L		05/16/25 08:30	05/16/25 19:59	1
Selenium	0.00568		0.00500	0.00140	mg/L		05/16/25 08:30	05/16/25 19:59	1
Silver	<0.00100	+	0.00100	0.000500	mg/L		05/16/25 08:30	05/16/25 19:59	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/16/25 08:30	05/16/25 19:59	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		05/16/25 08:30	05/16/25 19:59	1
Zinc	<0.0200		0.0200	0.0130	mg/L		05/16/25 08:30	05/16/25 19:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	1.75	J	1.88	1.31	mg/L			05/13/25 15:13	1

Client Sample Results

Client: SCS Engineers
Project/Site: WRD-S 1st 2025 GW Sampling Event

Job ID: 310-306161-1
SDG: WRD Sanitary Landfill - South Unit

Client Sample ID: MW-31

Lab Sample ID: 310-306161-2

Date Collected: 05/08/25 16:08

Matrix: Water

Date Received: 05/09/25 16:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/14/25 02:07	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/14/25 02:07	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/14/25 02:07	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/14/25 02:07	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/14/25 02:07	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/14/25 02:07	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/14/25 02:07	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			05/14/25 02:07	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			05/14/25 02:07	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/14/25 02:07	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/14/25 02:07	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/14/25 02:07	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/14/25 02:07	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/14/25 02:07	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/14/25 02:07	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/14/25 02:07	1
Acetone	<10.0		10.0	3.10	ug/L			05/14/25 02:07	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			05/14/25 02:07	1
Benzene	<0.500		0.500	0.220	ug/L			05/14/25 02:07	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/14/25 02:07	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/14/25 02:07	1
Bromoform	<5.00		5.00	0.780	ug/L			05/14/25 02:07	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/14/25 02:07	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/14/25 02:07	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/14/25 02:07	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/14/25 02:07	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/14/25 02:07	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/14/25 02:07	1
Chloroform	<3.00		3.00	1.30	ug/L			05/14/25 02:07	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/14/25 02:07	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/14/25 02:07	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/14/25 02:07	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/14/25 02:07	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/14/25 02:07	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/14/25 02:07	1
Methylene chloride	<5.00		5.00	1.70	ug/L			05/14/25 02:07	1
Styrene	<1.00		1.00	0.370	ug/L			05/14/25 02:07	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/14/25 02:07	1
Toluene	<1.00		1.00	0.430	ug/L			05/14/25 02:07	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/14/25 02:07	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/14/25 02:07	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/14/25 02:07	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/14/25 02:07	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/14/25 02:07	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/14/25 02:07	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/14/25 02:07	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/14/25 02:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	111		76 - 130		05/14/25 02:07	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: WRD-S 1st 2025 GW Sampling Event

Job ID: 310-306161-1
SDG: WRD Sanitary Landfill - South Unit

Client Sample ID: MW-31

Lab Sample ID: 310-306161-2

Date Collected: 05/08/25 16:08

Matrix: Water

Date Received: 05/09/25 16:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		05/14/25 02:07	1
4-Bromofluorobenzene (Surr)	97		80 - 120		05/14/25 02:07	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		05/16/25 08:30	05/16/25 20:35	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/16/25 08:30	05/16/25 20:35	1
Barium	0.131		0.00200	0.000660	mg/L		05/16/25 08:30	05/16/25 20:35	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/16/25 08:30	05/16/25 20:35	1
Cadmium	0.000101	J	0.000200	0.000100	mg/L		05/16/25 08:30	05/16/25 20:35	1
Chromium	<0.00500		0.00500	0.00180	mg/L		05/16/25 08:30	05/16/25 20:35	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/16/25 08:30	05/16/25 20:35	1
Copper	<0.00500		0.00500	0.00320	mg/L		05/16/25 08:30	05/16/25 20:35	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/16/25 08:30	05/16/25 20:35	1
Nickel	<0.00500		0.00500	0.00230	mg/L		05/16/25 08:30	05/16/25 20:35	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/16/25 08:30	05/16/25 20:35	1
Silver	<0.00100	*+	0.00100	0.000500	mg/L		05/16/25 08:30	05/16/25 20:35	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/16/25 08:30	05/16/25 20:35	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		05/16/25 08:30	05/16/25 20:35	1
Zinc	<0.0200		0.0200	0.0130	mg/L		05/16/25 08:30	05/16/25 20:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	1.38	J	1.88	1.31	mg/L			05/13/25 15:13	1

Client Sample Results

Client: SCS Engineers
Project/Site: WRD-S 1st 2025 GW Sampling Event

Job ID: 310-306161-1
SDG: WRD Sanitary Landfill - South Unit

Client Sample ID: MW-DS

Lab Sample ID: 310-306161-3

Date Collected: 05/08/25 17:43

Matrix: Water

Date Received: 05/09/25 16:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/14/25 02:30	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/14/25 02:30	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/14/25 02:30	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/14/25 02:30	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/14/25 02:30	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/14/25 02:30	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/14/25 02:30	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			05/14/25 02:30	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			05/14/25 02:30	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/14/25 02:30	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/14/25 02:30	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/14/25 02:30	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/14/25 02:30	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/14/25 02:30	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/14/25 02:30	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/14/25 02:30	1
Acetone	<10.0		10.0	3.10	ug/L			05/14/25 02:30	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			05/14/25 02:30	1
Benzene	<0.500		0.500	0.220	ug/L			05/14/25 02:30	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/14/25 02:30	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/14/25 02:30	1
Bromoform	<5.00		5.00	0.780	ug/L			05/14/25 02:30	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/14/25 02:30	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/14/25 02:30	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/14/25 02:30	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/14/25 02:30	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/14/25 02:30	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/14/25 02:30	1
Chloroform	<3.00		3.00	1.30	ug/L			05/14/25 02:30	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/14/25 02:30	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/14/25 02:30	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/14/25 02:30	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/14/25 02:30	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/14/25 02:30	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/14/25 02:30	1
Methylene chloride	<5.00		5.00	1.70	ug/L			05/14/25 02:30	1
Styrene	<1.00		1.00	0.370	ug/L			05/14/25 02:30	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/14/25 02:30	1
Toluene	<1.00		1.00	0.430	ug/L			05/14/25 02:30	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/14/25 02:30	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/14/25 02:30	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/14/25 02:30	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/14/25 02:30	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/14/25 02:30	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/14/25 02:30	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/14/25 02:30	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/14/25 02:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	110		76 - 130		05/14/25 02:30	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: WRD-S 1st 2025 GW Sampling Event

Job ID: 310-306161-1
SDG: WRD Sanitary Landfill - South Unit

Client Sample ID: MW-DS

Lab Sample ID: 310-306161-3

Date Collected: 05/08/25 17:43

Matrix: Water

Date Received: 05/09/25 16:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120		05/14/25 02:30	1
4-Bromofluorobenzene (Surr)	99		80 - 120		05/14/25 02:30	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		05/16/25 08:30	05/16/25 20:11	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/16/25 08:30	05/16/25 20:11	1
Barium	0.0782		0.00200	0.000660	mg/L		05/16/25 08:30	05/16/25 20:11	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/16/25 08:30	05/16/25 20:11	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/16/25 08:30	05/16/25 20:11	1
Chromium	<0.00500		0.00500	0.00180	mg/L		05/16/25 08:30	05/16/25 20:11	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/16/25 08:30	05/16/25 20:11	1
Copper	<0.00500		0.00500	0.00320	mg/L		05/16/25 08:30	05/16/25 20:11	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/16/25 08:30	05/16/25 20:11	1
Nickel	<0.00500		0.00500	0.00230	mg/L		05/16/25 08:30	05/16/25 20:11	1
Selenium	0.00531		0.00500	0.00140	mg/L		05/16/25 08:30	05/16/25 20:11	1
Silver	<0.00100	+	0.00100	0.000500	mg/L		05/16/25 08:30	05/16/25 20:11	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/16/25 08:30	05/16/25 20:11	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		05/16/25 08:30	05/16/25 20:11	1
Zinc	<0.0200		0.0200	0.0130	mg/L		05/16/25 08:30	05/16/25 20:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.31	mg/L			05/13/25 15:13	1

Client Sample Results

Client: SCS Engineers
Project/Site: WRD-S 1st 2025 GW Sampling Event

Job ID: 310-306161-1
SDG: WRD Sanitary Landfill - South Unit

Client Sample ID: Trip Blank

Lab Sample ID: 310-306161-4

Date Collected: 05/08/25 00:00

Matrix: Water

Date Received: 05/09/25 16:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/14/25 00:13	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/14/25 00:13	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/14/25 00:13	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/14/25 00:13	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/14/25 00:13	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/14/25 00:13	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/14/25 00:13	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			05/14/25 00:13	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			05/14/25 00:13	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/14/25 00:13	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/14/25 00:13	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/14/25 00:13	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/14/25 00:13	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/14/25 00:13	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/14/25 00:13	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/14/25 00:13	1
Acetone	<10.0		10.0	3.10	ug/L			05/14/25 00:13	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			05/14/25 00:13	1
Benzene	<0.500		0.500	0.220	ug/L			05/14/25 00:13	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/14/25 00:13	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/14/25 00:13	1
Bromoform	<5.00		5.00	0.780	ug/L			05/14/25 00:13	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/14/25 00:13	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/14/25 00:13	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/14/25 00:13	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/14/25 00:13	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/14/25 00:13	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/14/25 00:13	1
Chloroform	<3.00		3.00	1.30	ug/L			05/14/25 00:13	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/14/25 00:13	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/14/25 00:13	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/14/25 00:13	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/14/25 00:13	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/14/25 00:13	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/14/25 00:13	1
Methylene chloride	<5.00		5.00	1.70	ug/L			05/14/25 00:13	1
Styrene	<1.00		1.00	0.370	ug/L			05/14/25 00:13	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/14/25 00:13	1
Toluene	<1.00		1.00	0.430	ug/L			05/14/25 00:13	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/14/25 00:13	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/14/25 00:13	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/14/25 00:13	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/14/25 00:13	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/14/25 00:13	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/14/25 00:13	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/14/25 00:13	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/14/25 00:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	112		76 - 130		05/14/25 00:13	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: WRD-S 1st 2025 GW Sampling Event

Job ID: 310-306161-1
SDG: WRD Sanitary Landfill - South Unit

Client Sample ID: Trip Blank

Lab Sample ID: 310-306161-4

Date Collected: 05/08/25 00:00

Matrix: Water

Date Received: 05/09/25 16:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		80 - 120		05/14/25 00:13	1
4-Bromofluorobenzene (Surr)	98		80 - 120		05/14/25 00:13	1

Definitions/Glossary

Client: SCS Engineers
Project/Site: WRD-S 1st 2025 GW Sampling Event

Job ID: 310-306161-1
SDG: WRD Sanitary Landfill - South Unit

Qualifiers

Metals

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
SQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Surrogate Summary

Client: SCS Engineers
Project/Site: WRD-S 1st 2025 GW Sampling Event

Job ID: 310-306161-1
SDG: WRD Sanitary Landfill - South Unit

Method: 8260D - Volatile Organic Compounds by GC/MS
Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	DBFM (76-130)	TOL (80-120)	BFB (80-120)
310-306161-1	MW-30L	112	97	97
310-306161-2	MW-31	111	98	97
310-306161-3	MW-DS	110	96	99
310-306161-4	Trip Blank	112	97	98
LCS 310-454541/6	Lab Control Sample	104	100	96
LCS 310-454541/7	Lab Control Sample	112	98	98
MB 310-454541/5	Method Blank	111	98	98

Surrogate Legend
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

Client: SCS Engineers
Project/Site: WRD-S 1st 2025 GW Sampling Event

Job ID: 310-306161-1
SDG: WRD Sanitary Landfill - South Unit

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 310-454541/5

Matrix: Water

Analysis Batch: 454541

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/13/25 22:18	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/13/25 22:18	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/13/25 22:18	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/13/25 22:18	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/13/25 22:18	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/13/25 22:18	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/13/25 22:18	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			05/13/25 22:18	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			05/13/25 22:18	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/13/25 22:18	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/13/25 22:18	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/13/25 22:18	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/13/25 22:18	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/13/25 22:18	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/13/25 22:18	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/13/25 22:18	1
Acetone	<10.0		10.0	3.10	ug/L			05/13/25 22:18	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			05/13/25 22:18	1
Benzene	<0.500		0.500	0.220	ug/L			05/13/25 22:18	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/13/25 22:18	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/13/25 22:18	1
Bromoform	<5.00		5.00	0.780	ug/L			05/13/25 22:18	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/13/25 22:18	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/13/25 22:18	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/13/25 22:18	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/13/25 22:18	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/13/25 22:18	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/13/25 22:18	1
Chloroform	<3.00		3.00	1.30	ug/L			05/13/25 22:18	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/13/25 22:18	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/13/25 22:18	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/13/25 22:18	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/13/25 22:18	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/13/25 22:18	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/13/25 22:18	1
Methylene chloride	<5.00		5.00	1.70	ug/L			05/13/25 22:18	1
Styrene	<1.00		1.00	0.370	ug/L			05/13/25 22:18	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/13/25 22:18	1
Toluene	<1.00		1.00	0.430	ug/L			05/13/25 22:18	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/13/25 22:18	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/13/25 22:18	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/13/25 22:18	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/13/25 22:18	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/13/25 22:18	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/13/25 22:18	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/13/25 22:18	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/13/25 22:18	1

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
Project/Site: WRD-S 1st 2025 GW Sampling Event

Job ID: 310-306161-1
SDG: WRD Sanitary Landfill - South Unit

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-454541/5

Matrix: Water

Analysis Batch: 454541

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	111		76 - 130		05/13/25 22:18	1
Toluene-d8 (Surr)	98		80 - 120		05/13/25 22:18	1
4-Bromofluorobenzene (Surr)	98		80 - 120		05/13/25 22:18	1

Lab Sample ID: LCS 310-454541/6

Matrix: Water

Analysis Batch: 454541

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	18.28		ug/L		91	70 - 121
1,1,1-Trichloroethane	20.0	19.73		ug/L		99	69 - 130
1,1,1,2,2-Tetrachloroethane	20.0	19.35		ug/L		97	70 - 122
1,1,2-Trichloroethane	20.0	18.44		ug/L		92	75 - 121
1,1-Dichloroethane	20.0	22.92		ug/L		115	69 - 127
1,1-Dichloroethene	20.0	22.27		ug/L		111	64 - 134
1,2,3-Trichloropropane	20.0	19.04		ug/L		95	70 - 122
1,2-Dibromo-3-chloropropane	20.0	18.52		ug/L		93	62 - 132
1,2-Dibromoethane (EDB)	20.0	18.62		ug/L		93	74 - 122
1,2-Dichlorobenzene	20.0	18.69		ug/L		93	74 - 120
1,2-Dichloroethane	20.0	21.38		ug/L		107	68 - 125
1,2-Dichloropropane	20.0	19.41		ug/L		97	72 - 128
1,4-Dichlorobenzene	20.0	18.44		ug/L		92	72 - 120
2-Butanone (MEK)	40.0	43.14		ug/L		108	60 - 134
2-Hexanone	40.0	44.70		ug/L		112	62 - 139
4-Methyl-2-pentanone (MIBK)	40.0	45.75		ug/L		114	62 - 136
Acetone	40.0	43.65		ug/L		109	59 - 136
Acrylonitrile	200	231.5		ug/L		116	50 - 150
Benzene	20.0	20.93		ug/L		105	71 - 125
Bromochloromethane	20.0	18.19		ug/L		91	69 - 131
Bromodichloromethane	20.0	18.54		ug/L		93	70 - 122
Bromoform	20.0	17.46		ug/L		87	62 - 122
Carbon disulfide	20.0	23.97		ug/L		120	58 - 137
Carbon tetrachloride	20.0	20.72		ug/L		104	63 - 136
Chlorobenzene	20.0	19.37		ug/L		97	74 - 120
Chlorodibromomethane	20.0	17.56		ug/L		88	69 - 121
Chloroform	20.0	21.38		ug/L		107	72 - 122
cis-1,2-Dichloroethene	20.0	21.73		ug/L		109	72 - 123
cis-1,3-Dichloropropene	20.0	17.84		ug/L		89	72 - 123
Dibromomethane	20.0	20.61		ug/L		103	72 - 122
Ethylbenzene	20.0	20.34		ug/L		102	75 - 120
Iodomethane	20.0	11.50		ug/L		57	18 - 150
Methylene chloride	20.0	20.28		ug/L		101	72 - 128
Styrene	20.0	20.09		ug/L		100	74 - 122
Tetrachloroethene	20.0	20.04		ug/L		100	70 - 128
Toluene	20.0	19.37		ug/L		97	74 - 120
trans-1,2-Dichloroethene	20.0	22.06		ug/L		110	67 - 127
trans-1,3-Dichloropropene	20.0	19.04		ug/L		95	67 - 123
trans-1,4-Dichloro-2-butene	20.0	18.66		ug/L		93	50 - 150

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
Project/Site: WRD-S 1st 2025 GW Sampling Event

Job ID: 310-306161-1
SDG: WRD Sanitary Landfill - South Unit

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-454541/6

Matrix: Water

Analysis Batch: 454541

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Trichloroethene	20.0	19.35		ug/L		97	70 - 128
Vinyl acetate	40.0	39.42		ug/L		99	50 - 150
Xylenes, Total	40.0	40.39		ug/L		101	74 - 121

Surrogate	%Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	104		76 - 130
Toluene-d8 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	96		80 - 120

Lab Sample ID: LCS 310-454541/7

Matrix: Water

Analysis Batch: 454541

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	18.11		ug/L		91	33 - 138
Chloroethane	20.0	20.45		ug/L		102	59 - 139
Chloromethane	20.0	21.97		ug/L		110	52 - 146
Trichlorofluoromethane	20.0	22.58		ug/L		113	55 - 150
Vinyl chloride	20.0	20.64		ug/L		103	60 - 142

Surrogate	%Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	112		76 - 130
Toluene-d8 (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	98		80 - 120

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-454836/1-A

Matrix: Water

Analysis Batch: 455033

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 454836

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		05/16/25 08:30	05/16/25 19:25	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/16/25 08:30	05/16/25 19:25	1
Barium	<0.00200		0.00200	0.000660	mg/L		05/16/25 08:30	05/16/25 19:25	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/16/25 08:30	05/16/25 19:25	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/16/25 08:30	05/16/25 19:25	1
Chromium	<0.00500		0.00500	0.00180	mg/L		05/16/25 08:30	05/16/25 19:25	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/16/25 08:30	05/16/25 19:25	1
Copper	<0.00500		0.00500	0.00320	mg/L		05/16/25 08:30	05/16/25 19:25	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/16/25 08:30	05/16/25 19:25	1
Nickel	<0.00500		0.00500	0.00230	mg/L		05/16/25 08:30	05/16/25 19:25	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/16/25 08:30	05/16/25 19:25	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/16/25 08:30	05/16/25 19:25	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/16/25 08:30	05/16/25 19:25	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		05/16/25 08:30	05/16/25 19:25	1
Zinc	<0.0200		0.0200	0.0130	mg/L		05/16/25 08:30	05/16/25 19:25	1

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
Project/Site: WRD-S 1st 2025 GW Sampling Event

Job ID: 310-306161-1
SDG: WRD Sanitary Landfill - South Unit

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 310-454836/2-A
Matrix: Water
Analysis Batch: 455033

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 454836

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.200	0.2227		mg/L		111	80 - 120
Arsenic	0.200	0.2094		mg/L		105	80 - 120
Barium	0.100	0.1036		mg/L		104	80 - 120
Beryllium	0.100	0.09752		mg/L		98	80 - 120
Cadmium	0.100	0.1046		mg/L		105	80 - 120
Chromium	0.100	0.1024		mg/L		102	80 - 120
Cobalt	0.100	0.1101		mg/L		110	80 - 120
Copper	0.200	0.2150		mg/L		108	80 - 120
Lead	0.200	0.2150		mg/L		107	80 - 120
Nickel	0.200	0.2077		mg/L		104	80 - 120
Selenium	0.400	0.3856		mg/L		96	80 - 120
Silver	0.100	0.1220	*+	mg/L		122	80 - 120
Thallium	0.100	0.09107		mg/L		91	80 - 120
Vanadium	0.100	0.09994		mg/L		100	80 - 120
Zinc	0.200	0.2055		mg/L		103	80 - 120

Lab Sample ID: 310-306161-3 DU
Matrix: Water
Analysis Batch: 455033

Client Sample ID: MW-DS
Prep Type: Total/NA
Prep Batch: 454836

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<0.00200		<0.00200		mg/L		NC	20
Arsenic	<0.00200		<0.00200		mg/L		NC	20
Barium	0.0782		0.07646		mg/L		2	20
Beryllium	<0.00100		<0.00100		mg/L		NC	20
Cadmium	<0.000200		<0.000200		mg/L		NC	20
Chromium	<0.00500		<0.00500		mg/L		NC	20
Cobalt	<0.000500		<0.000500		mg/L		NC	20
Copper	<0.00500		<0.00500		mg/L		NC	20
Lead	<0.000500		<0.000500		mg/L		NC	20
Nickel	<0.00500		<0.00500		mg/L		NC	20
Selenium	0.00531		0.005362		mg/L		1	20
Silver	<0.00100	*+	<0.00100	*+	mg/L		NC	20
Thallium	<0.00100		<0.00100		mg/L		NC	20
Vanadium	<0.00500		<0.00500		mg/L		NC	20
Zinc	<0.0200		<0.0200		mg/L		NC	20

Method: I-3765-85 - Residue, Non-filterable (TSS)

Lab Sample ID: MB 310-454562/1
Matrix: Water
Analysis Batch: 454562

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.50	mg/L			05/13/25 15:13	1

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
Project/Site: WRD-S 1st 2025 GW Sampling Event

Job ID: 310-306161-1
SDG: WRD Sanitary Landfill - South Unit

Method: I-3765-85 - Residue, Non-filterable (TSS) (Continued)

Lab Sample ID: LCS 310-454562/2				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 454562							
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	93.00		mg/L		93	81 - 116

QC Association Summary

Client: SCS Engineers
Project/Site: WRD-S 1st 2025 GW Sampling Event

Job ID: 310-306161-1
SDG: WRD Sanitary Landfill - South Unit

GC/MS VOA

Analysis Batch: 454541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-306161-1	MW-30L	Total/NA	Water	8260D	
310-306161-2	MW-31	Total/NA	Water	8260D	
310-306161-3	MW-DS	Total/NA	Water	8260D	
310-306161-4	Trip Blank	Total/NA	Water	8260D	
MB 310-454541/5	Method Blank	Total/NA	Water	8260D	
LCS 310-454541/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-454541/7	Lab Control Sample	Total/NA	Water	8260D	

Metals

Prep Batch: 454836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-306161-1	MW-30L	Total/NA	Water	3005A	
310-306161-2	MW-31	Total/NA	Water	3005A	
310-306161-3	MW-DS	Total/NA	Water	3005A	
MB 310-454836/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-454836/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-306161-3 DU	MW-DS	Total/NA	Water	3005A	

Analysis Batch: 455033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-306161-1	MW-30L	Total/NA	Water	6020B	454836
310-306161-2	MW-31	Total/NA	Water	6020B	454836
310-306161-3	MW-DS	Total/NA	Water	6020B	454836
MB 310-454836/1-A	Method Blank	Total/NA	Water	6020B	454836
LCS 310-454836/2-A	Lab Control Sample	Total/NA	Water	6020B	454836
310-306161-3 DU	MW-DS	Total/NA	Water	6020B	454836

General Chemistry

Analysis Batch: 454562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-306161-1	MW-30L	Total/NA	Water	I-3765-85	
310-306161-2	MW-31	Total/NA	Water	I-3765-85	
310-306161-3	MW-DS	Total/NA	Water	I-3765-85	
MB 310-454562/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-454562/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Lab Chronicle

Client: SCS Engineers
Project/Site: WRD-S 1st 2025 GW Sampling Event

Job ID: 310-306161-1
SDG: WRD Sanitary Landfill - South Unit

Client Sample ID: MW-30L

Lab Sample ID: 310-306161-1

Date Collected: 05/08/25 17:43

Matrix: Water

Date Received: 05/09/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	454541	FE5V	EET CF	05/14/25 01:44
Total/NA	Prep	3005A			454836	QTZ5	EET CF	05/16/25 08:30
Total/NA	Analysis	6020B		1	455033	NFT2	EET CF	05/16/25 19:59
Total/NA	Analysis	I-3765-85		1	454562	XJ7V	EET CF	05/13/25 15:13

Client Sample ID: MW-31

Lab Sample ID: 310-306161-2

Date Collected: 05/08/25 16:08

Matrix: Water

Date Received: 05/09/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	454541	FE5V	EET CF	05/14/25 02:07
Total/NA	Prep	3005A			454836	QTZ5	EET CF	05/16/25 08:30
Total/NA	Analysis	6020B		1	455033	NFT2	EET CF	05/16/25 20:35
Total/NA	Analysis	I-3765-85		1	454562	XJ7V	EET CF	05/13/25 15:13

Client Sample ID: MW-DS

Lab Sample ID: 310-306161-3

Date Collected: 05/08/25 17:43

Matrix: Water

Date Received: 05/09/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	454541	FE5V	EET CF	05/14/25 02:30
Total/NA	Prep	3005A			454836	QTZ5	EET CF	05/16/25 08:30
Total/NA	Analysis	6020B		1	455033	NFT2	EET CF	05/16/25 20:11
Total/NA	Analysis	I-3765-85		1	454562	XJ7V	EET CF	05/13/25 15:13

Client Sample ID: Trip Blank

Lab Sample ID: 310-306161-4

Date Collected: 05/08/25 00:00

Matrix: Water

Date Received: 05/09/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	454541	FE5V	EET CF	05/14/25 00:13

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: WRD-S 1st 2025 GW Sampling Event

Job ID: 310-306161-1
SDG: WRD Sanitary Landfill - South Unit

Laboratory: Eurofins Cedar Falls

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-25

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Method Summary

Client: SCS Engineers
Project/Site: WRD-S 1st 2025 GW Sampling Event

Job ID: 310-306161-1
SDG: WRD Sanitary Landfill - South Unit

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
6020B	Metals (ICP/MS)	SW846	EET CF
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
3005A	Preparation, Total Metals	SW846	EET CF
5030B	Purge and Trap	SW846	EET CF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

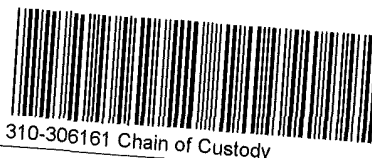
USGS = "Methods For Analysis Of Water And Fluvial Sediments", USGS, 1989

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401



Environment Testing
America



310-306161 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>SCS</u>			
City/State: <u>W. Des Moines IA</u>		Project:	
Receipt Information			
Date/Time Received:	DATE <u>7/4/25</u>	TIME <u>1600</u>	Received By: <u>XB</u>
Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		☒ Yes ☐ No	If yes: Cooler ID
Multiple Coolers?		☐ Yes ☒ No	If yes: Cooler # _____ of _____
Cooler Custody Seals Present?		☒ Yes ☒ No	If yes: Cooler custody seals intact? ☐ Yes ☐ No
Sample Custody Seals Present?		☐ Yes ☒ No	If yes: Sample custody seals intact? ☐ Yes ☐ No
Trip Blank Present?		☒ Yes ☐ No	If yes: Which VOA samples are in cooler? ↓
<u>all</u>			
Temperature Record			
Coolant ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other _____ ☐ NONE			
Thermometer ID: <u>2</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>0.4</u>		Corrected Temp (°C): <u>0.4</u>	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1		CONTAINER 2
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE If yes, contact PM before proceeding If no, proceed with login			
Additional Comments			

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-306161-1

SDG Number: WRD Sanitary Landfill - South Unit

Login Number: 306161

List Source: Eurofins Cedar Falls

List Number: 1

Creator: Bunker, Xavier M

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Nathan Ohrt
SCS Engineers
1690 All State Court
Suite 100
West Des Moines, Iowa 50265

Generated 10/13/2025 5:06:59 PM

JOB DESCRIPTION

WRD South MW-30L Retest
WRD South

JOB NUMBER

310-317088-1

Eurofins Cedar Falls

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization



Generated
10/13/2025 5:06:59 PM

Authorized for release by
Samuel Miller, Project Management Assistant I
Samuel.Miller@et.eurofinsus.com
(319)595-2008

Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Sample Summary	5
Detection Summary	6
Client Sample Results	7
Definitions	8
QC Sample Results	9
QC Association	10
Chronicle	11
Certification Summary	12
Method Summary	13
Chain of Custody	14
Receipt Checklists	16



Case Narrative

Client: SCS Engineers
Project: WRD South MW-30L Retest

Job ID: 310-317088-1

Job ID: 310-317088-1

Eurofins Cedar Falls

Job Narrative 310-317088-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The sample was received on 10/2/2025 4:45 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.9°C.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Cedar Falls

Sample Summary

Client: SCS Engineers
Project/Site: WRD South MW-30L Retest

Job ID: 310-317088-1
SDG: WRD South

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
310-317088-1	MW-30L	Water	10/01/25 09:59	10/02/25 16:45	Iowa

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

Client: SCS Engineers
Project/Site: WRD South MW-30L Retest

Job ID: 310-317088-1
SDG: WRD South

Client Sample ID: MW-30L

Lab Sample ID: 310-317088-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.00532		0.00500	0.00140	mg/L	1		6020B	Total/NA
Total Suspended Solids	2.25		1.88	1.31	mg/L	1		I-3765-85	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: WRD South MW-30L Retest

Job ID: 310-317088-1
SDG: WRD South

Client Sample ID: MW-30L

Lab Sample ID: 310-317088-1

Date Collected: 10/01/25 09:59

Matrix: Water

Date Received: 10/02/25 16:45

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	0.00532		0.00500	0.00140	mg/L		10/09/25 08:30	10/13/25 14:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	2.25		1.88	1.31	mg/L			10/03/25 06:17	1

Definitions/Glossary

Client: SCS Engineers
Project/Site: WRD South MW-30L Retest

Job ID: 310-317088-1
SDG: WRD South

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Sample Results

Client: SCS Engineers
Project/Site: WRD South MW-30L Retest

Job ID: 310-317088-1
SDG: WRD South

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-469365/1-A
Matrix: Water
Analysis Batch: 469915

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 469365

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.00500		0.00500	0.00140	mg/L		10/09/25 08:30	10/13/25 13:55	1

Lab Sample ID: LCS 310-469365/2-A
Matrix: Water
Analysis Batch: 469915

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469365

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	0.400	0.3898		mg/L		97	80 - 120

Method: I-3765-85 - Residue, Non-filterable (TSS)

Lab Sample ID: MB 310-468754/1
Matrix: Water
Analysis Batch: 468754

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.50	mg/L			10/03/25 06:17	1

Lab Sample ID: LCS 310-468754/2
Matrix: Water
Analysis Batch: 468754

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	97.00		mg/L		97	82 - 117

QC Association Summary

Client: SCS Engineers
Project/Site: WRD South MW-30L Retest

Job ID: 310-317088-1
SDG: WRD South

Metals

Prep Batch: 469365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317088-1	MW-30L	Total/NA	Water	3005A	
MB 310-469365/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-469365/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 469915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317088-1	MW-30L	Total/NA	Water	6020B	469365
MB 310-469365/1-A	Method Blank	Total/NA	Water	6020B	469365
LCS 310-469365/2-A	Lab Control Sample	Total/NA	Water	6020B	469365

General Chemistry

Analysis Batch: 468754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317088-1	MW-30L	Total/NA	Water	I-3765-85	
MB 310-468754/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-468754/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Lab Chronicle

Client: SCS Engineers
Project/Site: WRD South MW-30L Retest

Job ID: 310-317088-1
SDG: WRD South

Client Sample ID: MW-30L

Date Collected: 10/01/25 09:59

Date Received: 10/02/25 16:45

Lab Sample ID: 310-317088-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			469365	QTZ5	EET CF	10/09/25 08:30
Total/NA	Analysis	6020B		1	469915	NFT2	EET CF	10/13/25 14:44
Total/NA	Analysis	I-3765-85		1	468754	DGU1	EET CF	10/03/25 06:17

Laboratory References:
EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: WRD South MW-30L Retest

Job ID: 310-317088-1
SDG: WRD South

Laboratory: Eurofins Cedar Falls

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-25

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: SCS Engineers
Project/Site: WRD South MW-30L Retest

Job ID: 310-317088-1
SDG: WRD South

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET CF
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
3005A	Preparation, Total Metals	SW846	EET CF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
USGS = "Methods For Analysis Of Water And Fluvial Sediments", USGS, 1989

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401



Environment Testing
America



310-317088 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client. <u>SES</u>			
City/State.	CITY <u>West Des Moines</u>	STATE <u>IA</u>	Project
Receipt Information			
Date/Time Received	DATE <u>10/12/25</u>	TIME <u>1605</u>	Received By: <u>JR</u>
Delivery Type: ☐ UPS ☒ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		☒ Yes ☐ No	If yes: Cooler ID: _____
Multiple Coolers?		☐ Yes ☒ No	If yes: Cooler # _____ of _____
Cooler Custody Seals Present?		☐ Yes ☒ No	If yes: Cooler custody seals intact? ☐ Yes ☐ No
Sample Custody Seals Present?		☐ Yes ☒ No	If yes: Sample custody seals intact? ☐ Yes ☐ No
Trip Blank Present?		☐ Yes ☒ No	If yes: Which VOA samples are in cooler? ↓
Temperature Record			
Coolant ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID <u>B3</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C). <u>0.9</u>		Corrected Temp (°C): <u>0.9</u>	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1		CONTAINER 2
Uncorrected Temp (°C)			
Corrected Temp (°C).			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE If yes, contact PM before proceeding If no, proceed with login			
Additional Comments			

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Project Manager:
Email smarczewski@scsengineers.com
Cell 712-661-9682

Client Contact

SCS Engineers
1690 All-State Court, Suite 11
West Des Moines, IA 50265
515-631-6160

Project Name WRD South MW-30L Retest
Site WRD South
P O # 27224309.26

Analysis Turnaround Time

☐ CALENDAR DAYS ☐ WORKING DAYS

Other:
☐ 2 weeks
☐ 1 week
☐ 2 days
☐ 1 day

Sample Identification

MW-30L

Sample Date

10-1-25

Sample Time

0959

Sample Type

G

Matrix

H₂O

of Cont.

Site Contact: Sean Marczewski

Lab Contact: Sam Miller

Date:

Carrier:

Filtered Sample (Y / N)

Perform MS / MSD (Y / N)

Selenium

Total Suspended Solids

COC No

of

COCs

Sampler

For Lab Use Only:

Walk-in Client:

Lab Sampling

Job / SDG No

Sample Specific Notes

Preservation Used: 1= Ice, 2= HCl; 3= H₂SO₄; 4=HNO₃; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Special Instructions/QC Requirements & Comments:

Custody Seal No

Company SCS

Received by:

10-2-25/1406

Received by:

Received in Laboratory by:

10-2-25 1645

Custody Seals Intact: ☐ Yes ☐ No

Relinquished by: *Kevin Roth*

Relinquished by:

Relinquished by:

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-317088-1

SDG Number: WRD South

Login Number: 317088

List Number: 1

Creator: Hirsch, Preston

List Source: Eurofins Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Nathan Ohrt
SCS Engineers
1690 All State Court
Suite 100
West Des Moines, Iowa 50265
Generated 12/4/2025 2:21:25 PM Revision 2

JOB DESCRIPTION

WRD South- 2nd 2025 GW Sampling Event
WRD South

JOB NUMBER

310-320348-1

Eurofins Cedar Falls

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization



Authorized for release by
Samuel Miller, Project Management Assistant I
Samuel.Miller@et.eurofinsus.com
(319)595-2008

Generated
12/4/2025 2:21:25 PM
Revision 2

Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Sample Summary	6
Detection Summary	7
Client Sample Results	8
Definitions	14
Surrogate Summary	15
QC Sample Results	16
QC Association	25
Chronicle	26
Certification Summary	27
Method Summary	28
Chain of Custody	29
Receipt Checklists	34



Case Narrative

Client: SCS Engineers
Project: WRD South- 2nd 2025 GW Sampling Event

Job ID: 310-320348-1

Job ID: 310-320348-1

Eurofins Cedar Falls

Job Narrative 310-320348-1

REVISION

The report being provided is a revision of the original report sent on 11/25/2025. The report (revision 2) is being revised due to Split job into two reports per client request.

Report revision history

Revision 1 - 12/4/2025 - Reason - Split job into two reports per client request.

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 11/12/2025 3:20 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were -0.3°C, 0.6°C and 0.7°C.

GC/MS VOA

Method 8260D: The following sample was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed outside the 7-day holding time specified for unpreserved samples but within the 14-day holding time specified for preserved samples: MW-32R (310-320348-7).

Method 8260D: The method requirement for no headspace was not met. The following volatile samples were analyzed with headspace in the sample containers: Trip Blank 1 (310-320348-11), Trip Blank 2 (310-320348-12) and Trip Blank 3 (310-320348-13).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

Method 6020B: The laboratory control sample (LCS) for preparation batch 310-473632 and analytical batch 310-474577 recovered outside control limits for the following analytes: Silver. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 6020B: The initial calibration verification (ICV) result for batch 310-474577 was above the upper control limit. The affected analytes are: Thallium. Sample results were non-detects, and have been reported as qualified data.

Method 6020B: The laboratory control sample (LCS) for preparation batch 310-473633 and analytical batch 310-474554 recovered outside control limits for the following analytes: Silver. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 6020B: The initial calibration verification (ICV) result for batch 310-474554 was above the upper control limit. The affected analytes are: Thallium. Sample results were non-detects, and have been reported as qualified data.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Cedar Falls

Case Narrative

Client: SCS Engineers
Project: WRD South- 2nd 2025 GW Sampling Event

Job ID: 310-320348-1

Job ID: 310-320348-1 (Continued)

Eurofins Cedar Falls

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Eurofins Cedar Falls

Sample Summary

Client: SCS Engineers
Project/Site: WRD South- 2nd 2025 GW Sampling Event

Job ID: 310-320348-1
SDG: WRD South

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
310-320348-9	MW-30L	Water	11/10/25 12:09	11/12/25 15:20	Iowa
310-320348-10	MW-31	Water	11/11/25 12:11	11/12/25 15:20	Iowa
310-320348-13	Trip Blank 3	Water	11/11/25 00:00	11/12/25 15:20	Iowa

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Detection Summary

Client: SCS Engineers
Project/Site: WRD South- 2nd 2025 GW Sampling Event

Job ID: 310-320348-1
SDG: WRD South

Client Sample ID: MW-30L

Lab Sample ID: 310-320348-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.000557	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0791		0.00200	0.000660	mg/L	1		6020B	Total/NA
Selenium	0.00489	J	0.00500	0.00140	mg/L	1		6020B	Total/NA
Vanadium	0.00213	J	0.00500	0.00170	mg/L	1		6020B	Total/NA
Total Suspended Solids	2.88		1.88	1.31	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-31

Lab Sample ID: 310-320348-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.148		0.00200	0.000660	mg/L	1		6020B	Total/NA
Nickel	0.00233	J	0.00500	0.00230	mg/L	1		6020B	Total/NA

Client Sample ID: Trip Blank 3

Lab Sample ID: 310-320348-13

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: WRD South- 2nd 2025 GW Sampling Event

Job ID: 310-320348-1
SDG: WRD South

Client Sample ID: MW-30L

Lab Sample ID: 310-320348-9

Date Collected: 11/10/25 12:09

Matrix: Water

Date Received: 11/12/25 15:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/15/25 10:57	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/15/25 10:57	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/15/25 10:57	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/15/25 10:57	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/15/25 10:57	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/15/25 10:57	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/15/25 10:57	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			11/15/25 10:57	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			11/15/25 10:57	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/15/25 10:57	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/15/25 10:57	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/15/25 10:57	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/15/25 10:57	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/15/25 10:57	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/15/25 10:57	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/15/25 10:57	1
Acetone	<10.0		10.0	3.80	ug/L			11/15/25 10:57	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			11/15/25 10:57	1
Benzene	<0.500		0.500	0.220	ug/L			11/15/25 10:57	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/15/25 10:57	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/15/25 10:57	1
Bromoform	<5.00		5.00	2.60	ug/L			11/15/25 10:57	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/15/25 10:57	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/15/25 10:57	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/15/25 10:57	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/15/25 10:57	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/15/25 10:57	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/15/25 10:57	1
Chloroform	<3.00		3.00	1.30	ug/L			11/15/25 10:57	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/15/25 10:57	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/15/25 10:57	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/15/25 10:57	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/15/25 10:57	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/15/25 10:57	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/15/25 10:57	1
Methylene chloride	<5.00		5.00	1.70	ug/L			11/15/25 10:57	1
Styrene	<1.00		1.00	0.370	ug/L			11/15/25 10:57	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/15/25 10:57	1
Toluene	<1.00		1.00	0.430	ug/L			11/15/25 10:57	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/15/25 10:57	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/15/25 10:57	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/15/25 10:57	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/15/25 10:57	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/15/25 10:57	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/15/25 10:57	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/15/25 10:57	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/15/25 10:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	124		76 - 130		11/15/25 10:57	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: WRD South- 2nd 2025 GW Sampling Event

Job ID: 310-320348-1
SDG: WRD South

Client Sample ID: MW-30L

Lab Sample ID: 310-320348-9

Date Collected: 11/10/25 12:09

Matrix: Water

Date Received: 11/12/25 15:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		80 - 120		11/15/25 10:57	1
4-Bromofluorobenzene (Surr)	100		80 - 120		11/15/25 10:57	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/17/25 08:30	11/24/25 02:40	1
Arsenic	0.000557	J	0.00200	0.000530	mg/L		11/17/25 08:30	11/24/25 17:58	1
Barium	0.0791		0.00200	0.000660	mg/L		11/17/25 08:30	11/24/25 02:40	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/17/25 08:30	11/24/25 02:40	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/17/25 08:30	11/24/25 02:40	1
Chromium	<0.00500		0.00500	0.00180	mg/L		11/17/25 08:30	11/24/25 02:40	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		11/17/25 08:30	11/24/25 17:58	1
Copper	<0.00500		0.00500	0.00320	mg/L		11/17/25 08:30	11/24/25 02:40	1
Lead	<0.000500		0.000500	0.000330	mg/L		11/17/25 08:30	11/24/25 02:40	1
Nickel	<0.00500		0.00500	0.00230	mg/L		11/17/25 08:30	11/24/25 02:40	1
Selenium	0.00489	J	0.00500	0.00140	mg/L		11/17/25 08:30	11/24/25 02:40	1
Silver	<0.00100	*+	0.00100	0.000500	mg/L		11/17/25 08:30	11/24/25 02:40	1
Thallium	<0.00100	^1+	0.00100	0.000570	mg/L		11/17/25 08:30	11/24/25 02:40	1
Vanadium	0.00213	J	0.00500	0.00170	mg/L		11/17/25 08:30	11/24/25 02:40	1
Zinc	<0.0200		0.0200	0.0130	mg/L		11/17/25 08:30	11/24/25 02:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	2.88		1.88	1.31	mg/L			11/13/25 07:18	1

Client Sample Results

Client: SCS Engineers
Project/Site: WRD South- 2nd 2025 GW Sampling Event

Job ID: 310-320348-1
SDG: WRD South

Client Sample ID: MW-31

Lab Sample ID: 310-320348-10

Date Collected: 11/11/25 12:11

Matrix: Water

Date Received: 11/12/25 15:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/15/25 11:19	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/15/25 11:19	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/15/25 11:19	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/15/25 11:19	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/15/25 11:19	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/15/25 11:19	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/15/25 11:19	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			11/15/25 11:19	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			11/15/25 11:19	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/15/25 11:19	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/15/25 11:19	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/15/25 11:19	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/15/25 11:19	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/15/25 11:19	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/15/25 11:19	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/15/25 11:19	1
Acetone	<10.0		10.0	3.80	ug/L			11/15/25 11:19	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			11/15/25 11:19	1
Benzene	<0.500		0.500	0.220	ug/L			11/15/25 11:19	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/15/25 11:19	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/15/25 11:19	1
Bromoform	<5.00		5.00	2.60	ug/L			11/15/25 11:19	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/15/25 11:19	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/15/25 11:19	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/15/25 11:19	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/15/25 11:19	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/15/25 11:19	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/15/25 11:19	1
Chloroform	<3.00		3.00	1.30	ug/L			11/15/25 11:19	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/15/25 11:19	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/15/25 11:19	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/15/25 11:19	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/15/25 11:19	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/15/25 11:19	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/15/25 11:19	1
Methylene chloride	<5.00		5.00	1.70	ug/L			11/15/25 11:19	1
Styrene	<1.00		1.00	0.370	ug/L			11/15/25 11:19	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/15/25 11:19	1
Toluene	<1.00		1.00	0.430	ug/L			11/15/25 11:19	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/15/25 11:19	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/15/25 11:19	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/15/25 11:19	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/15/25 11:19	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/15/25 11:19	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/15/25 11:19	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/15/25 11:19	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/15/25 11:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	123		76 - 130		11/15/25 11:19	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: WRD South- 2nd 2025 GW Sampling Event

Job ID: 310-320348-1
SDG: WRD South

Client Sample ID: MW-31

Lab Sample ID: 310-320348-10

Date Collected: 11/11/25 12:11

Matrix: Water

Date Received: 11/12/25 15:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		80 - 120		11/15/25 11:19	1
4-Bromofluorobenzene (Surr)	99		80 - 120		11/15/25 11:19	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/17/25 08:30	11/24/25 02:43	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		11/17/25 08:30	11/24/25 18:00	1
Barium	0.148		0.00200	0.000660	mg/L		11/17/25 08:30	11/24/25 02:43	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/17/25 08:30	11/24/25 02:43	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/17/25 08:30	11/24/25 02:43	1
Chromium	<0.00500		0.00500	0.00180	mg/L		11/17/25 08:30	11/24/25 02:43	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		11/17/25 08:30	11/24/25 18:00	1
Copper	<0.00500		0.00500	0.00320	mg/L		11/17/25 08:30	11/24/25 02:43	1
Lead	<0.000500		0.000500	0.000330	mg/L		11/17/25 08:30	11/24/25 02:43	1
Nickel	0.00233	J	0.00500	0.00230	mg/L		11/17/25 08:30	11/24/25 02:43	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/17/25 08:30	11/24/25 02:43	1
Silver	<0.00100	*+	0.00100	0.000500	mg/L		11/17/25 08:30	11/24/25 02:43	1
Thallium	<0.00100	^1+	0.00100	0.000570	mg/L		11/17/25 08:30	11/24/25 02:43	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		11/17/25 08:30	11/24/25 02:43	1
Zinc	<0.0200		0.0200	0.0130	mg/L		11/17/25 08:30	11/24/25 02:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<5.00		5.00	3.50	mg/L			11/13/25 07:18	1

Client Sample Results

Client: SCS Engineers
Project/Site: WRD South- 2nd 2025 GW Sampling Event

Job ID: 310-320348-1
SDG: WRD South

Client Sample ID: Trip Blank 3

Lab Sample ID: 310-320348-13

Date Collected: 11/11/25 00:00

Matrix: Water

Date Received: 11/12/25 15:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/15/25 05:05	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/15/25 05:05	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/15/25 05:05	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/15/25 05:05	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/15/25 05:05	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/15/25 05:05	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/15/25 05:05	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			11/15/25 05:05	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			11/15/25 05:05	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/15/25 05:05	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/15/25 05:05	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/15/25 05:05	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/15/25 05:05	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/15/25 05:05	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/15/25 05:05	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/15/25 05:05	1
Acetone	<10.0		10.0	3.80	ug/L			11/15/25 05:05	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			11/15/25 05:05	1
Benzene	<0.500		0.500	0.220	ug/L			11/15/25 05:05	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/15/25 05:05	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/15/25 05:05	1
Bromoform	<5.00		5.00	2.60	ug/L			11/15/25 05:05	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/15/25 05:05	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/15/25 05:05	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/15/25 05:05	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/15/25 05:05	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/15/25 05:05	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/15/25 05:05	1
Chloroform	<3.00		3.00	1.30	ug/L			11/15/25 05:05	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/15/25 05:05	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/15/25 05:05	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/15/25 05:05	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/15/25 05:05	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/15/25 05:05	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/15/25 05:05	1
Methylene chloride	<5.00		5.00	1.70	ug/L			11/15/25 05:05	1
Styrene	<1.00		1.00	0.370	ug/L			11/15/25 05:05	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/15/25 05:05	1
Toluene	<1.00		1.00	0.430	ug/L			11/15/25 05:05	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/15/25 05:05	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/15/25 05:05	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/15/25 05:05	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/15/25 05:05	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/15/25 05:05	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/15/25 05:05	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/15/25 05:05	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/15/25 05:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	109		76 - 130		11/15/25 05:05	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: WRD South- 2nd 2025 GW Sampling Event

Job ID: 310-320348-1
SDG: WRD South

Client Sample ID: Trip Blank 3
Date Collected: 11/11/25 00:00
Date Received: 11/12/25 15:20

Lab Sample ID: 310-320348-13
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		80 - 120		11/15/25 05:05	1
4-Bromofluorobenzene (Surr)	104		80 - 120		11/15/25 05:05	1

Definitions/Glossary

Client: SCS Engineers
Project/Site: WRD South- 2nd 2025 GW Sampling Event

Job ID: 310-320348-1
SDG: WRD South

Qualifiers

Metals

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Surrogate Summary

Client: SCS Engineers
Project/Site: WRD South- 2nd 2025 GW Sampling Event

Job ID: 310-320348-1
SDG: WRD South

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	DBFM (76-130)	TOL (80-120)	BFB (80-120)
310-320348-9	MW-30L	124	94	100
310-320348-10	MW-31	123	93	99
310-320348-13	Trip Blank 3	109	95	104

Surrogate Legend

- DBFM = Dibromofluoromethane (Surr)
- TOL = Toluene-d8 (Surr)
- BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

Client: SCS Engineers
Project/Site: WRD North - 2nd 2025 GW Sampling Event

Job ID: 310-320348-1
SDG: WRD North

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 310-473549/7

Matrix: Water

Analysis Batch: 473549

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/15/25 03:15	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/15/25 03:15	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/15/25 03:15	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/15/25 03:15	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/15/25 03:15	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/15/25 03:15	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/15/25 03:15	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			11/15/25 03:15	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			11/15/25 03:15	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/15/25 03:15	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/15/25 03:15	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/15/25 03:15	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/15/25 03:15	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/15/25 03:15	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/15/25 03:15	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/15/25 03:15	1
Acetone	<10.0		10.0	3.80	ug/L			11/15/25 03:15	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			11/15/25 03:15	1
Benzene	<0.500		0.500	0.220	ug/L			11/15/25 03:15	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/15/25 03:15	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/15/25 03:15	1
Bromoform	<5.00		5.00	2.60	ug/L			11/15/25 03:15	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/15/25 03:15	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/15/25 03:15	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/15/25 03:15	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/15/25 03:15	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/15/25 03:15	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/15/25 03:15	1
Chloroform	<3.00		3.00	1.30	ug/L			11/15/25 03:15	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/15/25 03:15	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/15/25 03:15	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/15/25 03:15	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/15/25 03:15	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/15/25 03:15	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/15/25 03:15	1
Methylene chloride	<5.00		5.00	1.70	ug/L			11/15/25 03:15	1
Styrene	<1.00		1.00	0.370	ug/L			11/15/25 03:15	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/15/25 03:15	1
Toluene	<1.00		1.00	0.430	ug/L			11/15/25 03:15	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/15/25 03:15	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/15/25 03:15	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/15/25 03:15	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/15/25 03:15	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/15/25 03:15	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/15/25 03:15	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/15/25 03:15	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/15/25 03:15	1

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
Project/Site: WRD North - 2nd 2025 GW Sampling Event

Job ID: 310-320348-1
SDG: WRD North

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-473549/7

Matrix: Water

Analysis Batch: 473549

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	111		76 - 130		11/15/25 03:15	1
Toluene-d8 (Surr)	94		80 - 120		11/15/25 03:15	1
4-Bromofluorobenzene (Surr)	98		80 - 120		11/15/25 03:15	1

Lab Sample ID: LCS 310-473549/8

Matrix: Water

Analysis Batch: 473549

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	17.62		ug/L		88	70 - 121
1,1,1-Trichloroethane	20.0	17.33		ug/L		87	69 - 130
1,1,1,2,2-Tetrachloroethane	20.0	17.62		ug/L		88	70 - 122
1,1,2-Trichloroethane	20.0	17.33		ug/L		87	75 - 121
1,1-Dichloroethane	20.0	17.70		ug/L		89	69 - 127
1,1-Dichloroethene	20.0	18.20		ug/L		91	64 - 134
1,2,3-Trichloropropane	20.0	17.66		ug/L		88	70 - 122
1,2-Dibromo-3-chloropropane	20.0	17.38		ug/L		87	62 - 132
1,2-Dibromoethane (EDB)	20.0	17.59		ug/L		88	74 - 122
1,2-Dichlorobenzene	20.0	17.73		ug/L		89	74 - 120
1,2-Dichloroethane	20.0	17.72		ug/L		89	68 - 125
1,2-Dichloropropane	20.0	17.85		ug/L		89	72 - 128
1,4-Dichlorobenzene	20.0	18.10		ug/L		91	72 - 120
2-Butanone (MEK)	40.0	38.15		ug/L		95	60 - 134
2-Hexanone	40.0	33.72		ug/L		84	62 - 139
4-Methyl-2-pentanone (MIBK)	40.0	34.72		ug/L		87	62 - 136
Acetone	40.0	33.88		ug/L		85	59 - 136
Acrylonitrile	200	174.9		ug/L		87	50 - 150
Benzene	20.0	18.09		ug/L		90	71 - 125
Bromochloromethane	20.0	18.05		ug/L		90	69 - 131
Bromodichloromethane	20.0	16.91		ug/L		85	70 - 122
Bromoform	20.0	17.28		ug/L		86	62 - 122
Carbon disulfide	20.0	17.13		ug/L		86	58 - 137
Carbon tetrachloride	20.0	18.05		ug/L		90	63 - 136
Chlorobenzene	20.0	17.73		ug/L		89	74 - 120
Chlorodibromomethane	20.0	17.09		ug/L		85	69 - 121
Chloroform	20.0	18.88		ug/L		94	72 - 122
cis-1,2-Dichloroethene	20.0	17.62		ug/L		88	72 - 123
cis-1,3-Dichloropropene	20.0	17.24		ug/L		86	72 - 123
Dibromomethane	20.0	17.03		ug/L		85	72 - 122
Ethylbenzene	20.0	19.03		ug/L		95	75 - 120
Iodomethane	20.0	18.47		ug/L		92	18 - 150
Methylene chloride	20.0	18.65		ug/L		93	72 - 128
Styrene	20.0	20.00		ug/L		100	74 - 122
Tetrachloroethene	20.0	17.83		ug/L		89	70 - 128
Toluene	20.0	18.04		ug/L		90	74 - 120
trans-1,2-Dichloroethene	20.0	17.22		ug/L		86	67 - 127
trans-1,3-Dichloropropene	20.0	17.20		ug/L		86	67 - 123
trans-1,4-Dichloro-2-butene	20.0	15.91		ug/L		80	50 - 150

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
Project/Site: WRD North - 2nd 2025 GW Sampling Event

Job ID: 310-320348-1
SDG: WRD North

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-473549/8

Matrix: Water

Analysis Batch: 473549

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Trichloroethene	20.0	17.08		ug/L		85	70 - 128
Vinyl acetate	40.0	34.97		ug/L		87	50 - 150
Xylenes, Total	40.0	38.99		ug/L		97	74 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	97		76 - 130
Toluene-d8 (Surr)	99		80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120

Lab Sample ID: LCS 310-473549/9

Matrix: Water

Analysis Batch: 473549

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	16.80		ug/L		84	33 - 138
Chloroethane	20.0	20.23		ug/L		101	59 - 139
Chloromethane	20.0	19.81		ug/L		99	52 - 146
Trichlorofluoromethane	20.0	20.48		ug/L		102	55 - 150
Vinyl chloride	20.0	19.75		ug/L		99	60 - 142

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	110		76 - 130
Toluene-d8 (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	102		80 - 120

Lab Sample ID: 310-320348-1 MS

Matrix: Water

Analysis Batch: 473549

Client Sample ID: MW-8

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<1.00		25.0	18.92		ug/L		76	55 - 121
1,1,1,1-Trichloroethane	<1.00		25.0	18.46		ug/L		74	53 - 130
1,1,2,2-Tetrachloroethane	<1.00		25.0	20.17		ug/L		81	55 - 123
1,1,2-Trichloroethane	<1.00		25.0	19.12		ug/L		76	60 - 121
1,1-Dichloroethane	<1.00		25.0	18.95		ug/L		76	53 - 127
1,1-Dichloroethene	<2.00	F2	25.0	18.14		ug/L		73	51 - 134
1,2,3-Trichloropropane	<1.00		25.0	21.11		ug/L		84	56 - 122
1,2-Dibromo-3-chloropropane	<5.00		25.0	19.23		ug/L		77	44 - 138
1,2-Dibromoethane (EDB)	<1.00		25.0	17.95		ug/L		72	60 - 122
1,2-Dichlorobenzene	<1.00		25.0	18.99		ug/L		76	60 - 120
1,2-Dichloroethane	<1.00		25.0	19.74		ug/L		79	48 - 128
1,2-Dichloropropane	<1.00		25.0	18.64		ug/L		75	59 - 128
1,4-Dichlorobenzene	<1.00		25.0	18.89		ug/L		76	58 - 120
2-Butanone (MEK)	<10.0		50.0	30.09		ug/L		60	46 - 134
2-Hexanone	<10.0		50.0	35.56		ug/L		71	46 - 141
4-Methyl-2-pentanone (MIBK)	<10.0		50.0	38.01		ug/L		76	49 - 138
Acetone	<10.0	F1	50.0	131.5	F1	ug/L		263	39 - 141
Acrylonitrile	<5.00		250	194.2		ug/L		78	41 - 150

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
Project/Site: WRD North - 2nd 2025 GW Sampling Event

Job ID: 310-320348-1
SDG: WRD North

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 310-320348-1 MS

Matrix: Water

Analysis Batch: 473549

Client Sample ID: MW-8

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.500		25.0	19.31		ug/L		77	48 - 125
Bromochloromethane	<5.00		25.0	19.91		ug/L		80	55 - 131
Bromodichloromethane	<1.00		25.0	18.69		ug/L		75	53 - 122
Bromoform	<5.00		25.0	19.42		ug/L		78	47 - 122
Carbon disulfide	<1.00	F2	25.0	18.46		ug/L		74	45 - 137
Carbon tetrachloride	<2.00		25.0	19.24		ug/L		77	45 - 136
Chlorobenzene	<1.00		25.0	18.76		ug/L		75	59 - 120
Chlorodibromomethane	<5.00		25.0	18.68		ug/L		75	53 - 121
Chloroform	<3.00		25.0	20.36		ug/L		81	52 - 122
cis-1,2-Dichloroethene	<1.00	F2	25.0	18.71		ug/L		75	51 - 123
cis-1,3-Dichloropropene	<5.00		25.0	16.98		ug/L		68	55 - 123
Dibromomethane	<1.00		25.0	19.05		ug/L		76	57 - 122
Ethylbenzene	<1.00		25.0	19.17		ug/L		77	53 - 120
Iodomethane	<10.0		25.0	16.85		ug/L		67	18 - 150
Methylene chloride	<5.00		25.0	19.81		ug/L		79	59 - 128
Styrene	<1.00		25.0	20.79		ug/L		83	50 - 125
Tetrachloroethene	<1.00		25.0	18.08		ug/L		72	51 - 128
Toluene	<1.00		25.0	17.93		ug/L		72	52 - 120
trans-1,2-Dichloroethene	<1.00		25.0	18.17		ug/L		73	53 - 127
trans-1,3-Dichloropropene	<5.00		25.0	17.57		ug/L		70	50 - 123
trans-1,4-Dichloro-2-butene	<10.0		25.0	19.31		ug/L		77	28 - 150
Trichloroethene	<1.00		25.0	18.04		ug/L		72	50 - 128
Vinyl acetate	<10.0	F1	50.0	<10.0	F1	ug/L		0	31 - 150
Xylenes, Total	<3.00		50.0	39.12		ug/L		78	50 - 122

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	103		76 - 130
Toluene-d8 (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	92		80 - 120

Lab Sample ID: 310-320348-1 MSD

Matrix: Water

Analysis Batch: 473549

Client Sample ID: MW-8

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<1.00		25.0	16.94		ug/L		68	55 - 121	11	20
1,1,1-Trichloroethane	<1.00		25.0	15.50		ug/L		62	53 - 130	17	20
1,1,2,2-Tetrachloroethane	<1.00		25.0	17.01		ug/L		68	55 - 123	17	20
1,1,2-Trichloroethane	<1.00		25.0	16.25		ug/L		65	60 - 121	16	20
1,1-Dichloroethane	<1.00		25.0	15.66		ug/L		63	53 - 127	19	20
1,1-Dichloroethene	<2.00	F2	25.0	14.56	F2	ug/L		58	51 - 134	22	20
1,2,3-Trichloropropane	<1.00		25.0	17.08		ug/L		68	56 - 122	21	21
1,2-Dibromo-3-chloropropane	<5.00		25.0	15.86		ug/L		63	44 - 138	19	24
1,2-Dibromoethane (EDB)	<1.00		25.0	15.52		ug/L		62	60 - 122	15	20
1,2-Dichlorobenzene	<1.00		25.0	16.28		ug/L		65	60 - 120	15	20
1,2-Dichloroethane	<1.00		25.0	16.43		ug/L		66	48 - 128	18	20
1,2-Dichloropropane	<1.00		25.0	15.30		ug/L		61	59 - 128	20	20
1,4-Dichlorobenzene	<1.00		25.0	16.23		ug/L		65	58 - 120	15	20

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
Project/Site: WRD North - 2nd 2025 GW Sampling Event

Job ID: 310-320348-1
SDG: WRD North

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 310-320348-1 MSD

Matrix: Water

Analysis Batch: 473549

Client Sample ID: MW-8

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Butanone (MEK)	<10.0		50.0	25.07		ug/L		50	46 - 134	18	23
2-Hexanone	<10.0		50.0	30.65		ug/L		61	46 - 141	15	20
4-Methyl-2-pentanone (MIBK)	<10.0		50.0	33.90		ug/L		68	49 - 138	11	20
Acetone	<10.0	F1	50.0	114.8	F1	ug/L		230	39 - 141	14	23
Acrylonitrile	<5.00		250	167.9		ug/L		67	41 - 150	15	20
Benzene	<0.500		25.0	15.73		ug/L		63	48 - 125	20	20
Bromochloromethane	<5.00		25.0	16.38		ug/L		66	55 - 131	19	21
Bromodichloromethane	<1.00		25.0	15.29		ug/L		61	53 - 122	20	20
Bromoform	<5.00		25.0	16.69		ug/L		67	47 - 122	15	20
Carbon disulfide	<1.00	F2	25.0	14.30	F2	ug/L		57	45 - 137	25	24
Carbon tetrachloride	<2.00		25.0	15.69		ug/L		63	45 - 136	20	20
Chlorobenzene	<1.00		25.0	15.81		ug/L		63	59 - 120	17	20
Chlorodibromomethane	<5.00		25.0	16.03		ug/L		64	53 - 121	15	20
Chloroform	<3.00		25.0	16.71		ug/L		67	52 - 122	20	20
cis-1,2-Dichloroethene	<1.00	F2	25.0	15.20	F2	ug/L		61	51 - 123	21	20
cis-1,3-Dichloropropene	<5.00		25.0	14.75		ug/L		59	55 - 123	14	20
Dibromomethane	<1.00		25.0	15.64		ug/L		63	57 - 122	20	20
Ethylbenzene	<1.00		25.0	16.79		ug/L		67	53 - 120	13	20
Iodomethane	<10.0		25.0	16.32		ug/L		65	18 - 150	3	32
Methylene chloride	<5.00		25.0	16.51		ug/L		66	59 - 128	18	20
Styrene	<1.00		25.0	17.88		ug/L		72	50 - 125	15	20
Tetrachloroethene	<1.00		25.0	15.29		ug/L		61	51 - 128	17	20
Toluene	<1.00		25.0	15.37		ug/L		61	52 - 120	15	20
trans-1,2-Dichloroethene	<1.00		25.0	15.25		ug/L		61	53 - 127	17	20
trans-1,3-Dichloropropene	<5.00		25.0	15.16		ug/L		61	50 - 123	15	20
trans-1,4-Dichloro-2-butene	<10.0		25.0	16.81		ug/L		67	28 - 150	14	24
Trichloroethene	<1.00		25.0	14.75		ug/L		59	50 - 128	20	20
Vinyl acetate	<10.0	F1	50.0	<10.0	F1	ug/L		0	31 - 150	NC	25
Xylenes, Total	<3.00		50.0	34.24		ug/L		68	50 - 122	13	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Dibromofluoromethane (Surr)	101		76 - 130
Toluene-d8 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	98		80 - 120

Lab Sample ID: MB 310-473983/7

Matrix: Water

Analysis Batch: 473983

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/18/25 22:13	1
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac			
	%Recovery	Qualifier							
Dibromofluoromethane (Surr)	99		76 - 130		11/18/25 22:13	1			
Toluene-d8 (Surr)	96		80 - 120		11/18/25 22:13	1			
4-Bromofluorobenzene (Surr)	108		80 - 120		11/18/25 22:13	1			

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
Project/Site: WRD North - 2nd 2025 GW Sampling Event

Job ID: 310-320348-1
SDG: WRD North

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-473983/9

Matrix: Water

Analysis Batch: 473983

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	20.0	20.00		ug/L		100	60 - 142
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Dibromofluoromethane (Surr)	105		76 - 130				
Toluene-d8 (Surr)	97		80 - 120				
4-Bromofluorobenzene (Surr)	103		80 - 120				

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-473632/1-A

Matrix: Water

Analysis Batch: 474577

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 473632

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		11/17/25 08:30	11/24/25 01:21	1
Barium	<0.00200		0.00200	0.000660	mg/L		11/17/25 08:30	11/24/25 01:21	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/17/25 08:30	11/24/25 01:21	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/17/25 08:30	11/24/25 01:21	1
Chromium	<0.00500		0.00500	0.00180	mg/L		11/17/25 08:30	11/24/25 01:21	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		11/17/25 08:30	11/24/25 01:21	1
Copper	<0.00500		0.00500	0.00320	mg/L		11/17/25 08:30	11/24/25 01:21	1
Lead	<0.000500		0.000500	0.000330	mg/L		11/17/25 08:30	11/24/25 01:21	1
Nickel	<0.00500		0.00500	0.00230	mg/L		11/17/25 08:30	11/24/25 01:21	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/17/25 08:30	11/24/25 01:21	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/17/25 08:30	11/24/25 01:21	1
Thallium	<0.00100	^1+	0.00100	0.000570	mg/L		11/17/25 08:30	11/24/25 01:21	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		11/17/25 08:30	11/24/25 01:21	1

Lab Sample ID: MB 310-473632/1-A

Matrix: Water

Analysis Batch: 474730

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 473632

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.001253	J	0.00200	0.00100	mg/L		11/17/25 08:30	11/24/25 15:01	1
Zinc	<0.0200		0.0200	0.0130	mg/L		11/17/25 08:30	11/24/25 15:01	1

Lab Sample ID: LCS 310-473632/2-A

Matrix: Water

Analysis Batch: 474577

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 473632

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.1968		mg/L		98	80 - 120
Barium	0.100	0.09494		mg/L		95	80 - 120
Beryllium	0.100	0.09880		mg/L		99	80 - 120
Cadmium	0.100	0.09205		mg/L		92	80 - 120
Chromium	0.100	0.1010		mg/L		101	80 - 120
Cobalt	0.100	0.1011		mg/L		101	80 - 120
Copper	0.200	0.1987		mg/L		99	80 - 120
Lead	0.200	0.2073		mg/L		104	80 - 120

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
Project/Site: WRD North - 2nd 2025 GW Sampling Event

Job ID: 310-320348-1
SDG: WRD North

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 310-473632/2-A
Matrix: Water
Analysis Batch: 474577

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 473632

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec	Limits
	Added	Result	Qualifier					
Nickel	0.200	0.1998		mg/L		100		80 - 120
Selenium	0.400	0.3744		mg/L		94		80 - 120
Silver	0.100	0.1310	*+	mg/L		131		80 - 120
Thallium	0.100	0.09081	^1+	mg/L		91		80 - 120
Vanadium	0.100	0.09736		mg/L		97		80 - 120

Lab Sample ID: LCS 310-473632/2-A
Matrix: Water
Analysis Batch: 474730

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 473632

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec	Limits
	Added	Result	Qualifier					
Antimony	0.200	0.2290		mg/L		114		80 - 120
Zinc	0.200	0.2091		mg/L		105		80 - 120

Lab Sample ID: MB 310-473633/1-A
Matrix: Water
Analysis Batch: 474554

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 473633

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.00200		0.00200	0.00100	mg/L		11/17/25 08:30	11/24/25 02:09	1
Barium	<0.00200		0.00200	0.000660	mg/L		11/17/25 08:30	11/24/25 02:09	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/17/25 08:30	11/24/25 02:09	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/17/25 08:30	11/24/25 02:09	1
Chromium	<0.00500		0.00500	0.00180	mg/L		11/17/25 08:30	11/24/25 02:09	1
Copper	<0.00500		0.00500	0.00320	mg/L		11/17/25 08:30	11/24/25 02:09	1
Lead	<0.000500		0.000500	0.000330	mg/L		11/17/25 08:30	11/24/25 02:09	1
Nickel	<0.00500		0.00500	0.00230	mg/L		11/17/25 08:30	11/24/25 02:09	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/17/25 08:30	11/24/25 02:09	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/17/25 08:30	11/24/25 02:09	1
Thallium	<0.00100	^1+	0.00100	0.000570	mg/L		11/17/25 08:30	11/24/25 02:09	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		11/17/25 08:30	11/24/25 02:09	1
Zinc	<0.0200		0.0200	0.0130	mg/L		11/17/25 08:30	11/24/25 02:09	1

Lab Sample ID: MB 310-473633/1-A
Matrix: Water
Analysis Batch: 474730

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 473633

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.00200		0.00200	0.000530	mg/L		11/17/25 08:30	11/24/25 17:29	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		11/17/25 08:30	11/24/25 17:29	1

Lab Sample ID: LCS 310-473633/2-A
Matrix: Water
Analysis Batch: 474554

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 473633

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec	Limits
	Added	Result	Qualifier					
Antimony	0.200	0.2040		mg/L		102		80 - 120
Barium	0.100	0.09869		mg/L		99		80 - 120
Beryllium	0.100	0.09762		mg/L		98		80 - 120
Cadmium	0.100	0.1005		mg/L		100		80 - 120

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
Project/Site: WRD North - 2nd 2025 GW Sampling Event

Job ID: 310-320348-1
SDG: WRD North

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 310-473633/2-A

Matrix: Water

Analysis Batch: 474554

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 473633

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	0.100	0.1031		mg/L		103	80 - 120
Copper	0.200	0.1913		mg/L		96	80 - 120
Lead	0.200	0.2135		mg/L		107	80 - 120
Nickel	0.200	0.2185		mg/L		109	80 - 120
Selenium	0.400	0.4007		mg/L		100	80 - 120
Silver	0.100	0.1369	*+	mg/L		137	80 - 120
Thallium	0.100	0.1008	^1+	mg/L		101	80 - 120
Vanadium	0.100	0.1069		mg/L		107	80 - 120
Zinc	0.200	0.1877		mg/L		94	80 - 120

Lab Sample ID: LCS 310-473633/2-A

Matrix: Water

Analysis Batch: 474730

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 473633

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.2017		mg/L		101	80 - 120
Cobalt	0.100	0.1037		mg/L		104	80 - 120

Lab Sample ID: 310-320348-4 MS

Matrix: Water

Analysis Batch: 474554

Client Sample ID: MW-19

Prep Type: Total/NA

Prep Batch: 473633

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.00103	J	0.200	0.1991		mg/L		99	75 - 125
Barium	0.127		0.100	0.2291		mg/L		102	75 - 125
Beryllium	<0.00100		0.100	0.09577		mg/L		96	75 - 125
Cadmium	0.000226		0.100	0.09942		mg/L		99	75 - 125
Chromium	<0.00500		0.100	0.09929		mg/L		99	75 - 125
Copper	0.00391	J	0.200	0.1874		mg/L		92	75 - 125
Lead	0.000658		0.200	0.2099		mg/L		105	75 - 125
Nickel	0.00951		0.200	0.2108		mg/L		101	75 - 125
Selenium	<0.00500		0.400	0.4042		mg/L		101	75 - 125
Silver	<0.00100	*+ F1	0.100	0.1264	F1	mg/L		126	75 - 125
Thallium	<0.00100	^1+	0.100	0.08515	^1+	mg/L		85	75 - 125
Vanadium	0.00253	J	0.100	0.1059		mg/L		103	75 - 125
Zinc	<0.0200		0.200	0.1945		mg/L		97	75 - 125

Lab Sample ID: 310-320348-4 MS

Matrix: Water

Analysis Batch: 474730

Client Sample ID: MW-19

Prep Type: Total/NA

Prep Batch: 473633

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.000904	J	0.200	0.2069		mg/L		103	75 - 125
Cobalt	0.00339		0.100	0.1027		mg/L		99	75 - 125

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
Project/Site: WRD North - 2nd 2025 GW Sampling Event

Job ID: 310-320348-1
SDG: WRD North

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 310-320348-4 MSD

Matrix: Water

Analysis Batch: 474554

Client Sample ID: MW-19

Prep Type: Total/NA

Prep Batch: 473633

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Antimony	0.00103	J	0.200	0.2073		mg/L		103	75 - 125	4	20
Barium	0.127		0.100	0.2417		mg/L		115	75 - 125	5	20
Beryllium	<0.00100		0.100	0.1012		mg/L		101	75 - 125	6	20
Cadmium	0.000226		0.100	0.1041		mg/L		104	75 - 125	5	20
Chromium	<0.00500		0.100	0.1068		mg/L		107	75 - 125	7	20
Copper	0.00391	J	0.200	0.1972		mg/L		97	75 - 125	5	20
Lead	0.000658		0.200	0.2183		mg/L		109	75 - 125	4	20
Nickel	0.00951		0.200	0.2203		mg/L		105	75 - 125	4	20
Selenium	<0.00500		0.400	0.4202		mg/L		105	75 - 125	4	20
Silver	<0.00100	*+ F1	0.100	0.1362	F1	mg/L		136	75 - 125	7	20
Thallium	<0.00100	^1+	0.100	0.09266	^1+	mg/L		93	75 - 125	8	20
Vanadium	0.00253	J	0.100	0.1127		mg/L		110	75 - 125	6	20
Zinc	<0.0200		0.200	0.1996		mg/L		100	75 - 125	3	20

Lab Sample ID: 310-320348-4 MSD

Matrix: Water

Analysis Batch: 474730

Client Sample ID: MW-19

Prep Type: Total/NA

Prep Batch: 473633

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Arsenic	0.000904	J	0.200	0.2006		mg/L		100	75 - 125	3	20
Cobalt	0.00339		0.100	0.09999		mg/L		97	75 - 125	3	20

Method: I-3765-85 - Residue, Non-filterable (TSS)

Lab Sample ID: MB 310-473360/1

Matrix: Water

Analysis Batch: 473360

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Suspended Solids	<5.00		5.00	3.50	mg/L			11/13/25 07:18	1

Lab Sample ID: LCS 310-473360/2

Matrix: Water

Analysis Batch: 473360

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec	Limits	RPD	Limit
Total Suspended Solids	100	112.0		mg/L		112		82 - 117		

Lab Sample ID: 310-320348-2 DU

Matrix: Water

Analysis Batch: 473360

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Total Suspended Solids	58.0		55.00		mg/L		5	35

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: WRD South- 2nd 2025 GW Sampling Event

Job ID: 310-320348-1
SDG: WRD South

GC/MS VOA

Analysis Batch: 473549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-320348-9	MW-30L	Total/NA	Water	8260D	
310-320348-10	MW-31	Total/NA	Water	8260D	
310-320348-13	Trip Blank 3	Total/NA	Water	8260D	

Metals

Prep Batch: 473633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-320348-9	MW-30L	Total/NA	Water	3005A	
310-320348-10	MW-31	Total/NA	Water	3005A	

Analysis Batch: 474554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-320348-9	MW-30L	Total/NA	Water	6020B	473633
310-320348-10	MW-31	Total/NA	Water	6020B	473633

Analysis Batch: 474730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-320348-9	MW-30L	Total/NA	Water	6020B	473633
310-320348-10	MW-31	Total/NA	Water	6020B	473633

General Chemistry

Analysis Batch: 473360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-320348-9	MW-30L	Total/NA	Water	I-3765-85	
310-320348-10	MW-31	Total/NA	Water	I-3765-85	

Lab Chronicle

Client: SCS Engineers
Project/Site: WRD South- 2nd 2025 GW Sampling Event

Job ID: 310-320348-1
SDG: WRD South

Client Sample ID: MW-30L

Date Collected: 11/10/25 12:09

Date Received: 11/12/25 15:20

Lab Sample ID: 310-320348-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	473549	WSE8	EET CF	11/15/25 10:57
Total/NA	Prep	3005A			473633	RLT9	EET CF	11/17/25 08:30
Total/NA	Analysis	6020B		1	474730	NFT2	EET CF	11/24/25 17:58
Total/NA	Prep	3005A			473633	RLT9	EET CF	11/17/25 08:30
Total/NA	Analysis	6020B		1	474554	ZRI4	EET CF	11/24/25 02:40
Total/NA	Analysis	I-3765-85		1	473360	DGU1	EET CF	11/13/25 07:18

Client Sample ID: MW-31

Date Collected: 11/11/25 12:11

Date Received: 11/12/25 15:20

Lab Sample ID: 310-320348-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	473549	WSE8	EET CF	11/15/25 11:19
Total/NA	Prep	3005A			473633	RLT9	EET CF	11/17/25 08:30
Total/NA	Analysis	6020B		1	474730	NFT2	EET CF	11/24/25 18:00
Total/NA	Prep	3005A			473633	RLT9	EET CF	11/17/25 08:30
Total/NA	Analysis	6020B		1	474554	ZRI4	EET CF	11/24/25 02:43
Total/NA	Analysis	I-3765-85		1	473360	DGU1	EET CF	11/13/25 07:18

Client Sample ID: Trip Blank 3

Date Collected: 11/11/25 00:00

Date Received: 11/12/25 15:20

Lab Sample ID: 310-320348-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	473549	WSE8	EET CF	11/15/25 05:05

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: WRD South- 2nd 2025 GW Sampling Event

Job ID: 310-320348-1
SDG: WRD South

Laboratory: Eurofins Cedar Falls

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-25

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Method Summary

Client: SCS Engineers
Project/Site: WRD South- 2nd 2025 GW Sampling Event

Job ID: 310-320348-1
SDG: WRD South

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
6020B	Metals (ICP/MS)	SW846	EET CF
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
3005A	Preparation, Total Metals	SW846	EET CF
5030B	Purge and Trap	SW846	EET CF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

USGS = "Methods For Analysis Of Water And Fluvial Sediments", USGS, 1989

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401



Environment Testing
America



310-320348 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client <u>SCS</u>			
City/State:	CITY <u>West Des Moines</u>	STATE	Project
Receipt Information			
Date/Time Received:	DATE <u>11-12-25</u>	TIME <u>1520</u>	Received By <u>BP</u>
Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler? ☒ Yes ☐ No If yes: Cooler ID			
Multiple Coolers? ☒ Yes ☐ No If yes: Cooler # <u>1</u> of <u>3</u>			
Cooler Custody Seals Present? ☐ Yes ☒ No If yes: Cooler custody seals intact? ☐ Yes ☐ No			
Sample Custody Seals Present? ☐ Yes ☒ No If yes: Sample custody seals intact? ☐ Yes ☐ No			
Trip Blank Present? ☒ Yes ☐ No If yes: Which VOA samples are in cooler? ↓			
<u>TB1, MW30L, at MW8, MW17, MW-DN</u>			
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other _____ ☐ NONE			
Thermometer ID: <u>BB</u>		Correction Factor (°C) <u>±0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>0.6</u>		Corrected Temp (°C): <u>0.6</u>	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			



Environment Testing
America

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client <u>SCS</u>			
City/State:	CITY <u>West Des Moines</u>	STATE <u>IA</u>	Project:
Receipt Information			
Date/Time Received	DATE <u>11-12-25</u>	TIME <u>1520</u>	Received By: <u>BP</u>
Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler? ☒ Yes ☐ No If yes: Cooler ID: _____			
Multiple Coolers? ☒ Yes ☐ No If yes: Cooler # <u>2</u> of <u>3</u>			
Cooler Custody Seals Present? ☐ Yes ☒ No If yes: Cooler custody seals intact? ☐ Yes ☐ No			
Sample Custody Seals Present? ☐ Yes ☒ No If yes: Sample custody seals intact? ☐ Yes ☐ No			
Trip Blank Present? ☒ Yes ☐ No If yes: Which VOA samples are in cooler? ↓ <u>TB-2, MW-21, MW-19, MW-31</u>			
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>BB</u>		Correction Factor (°C): <u>+0</u>	
• Temp Blank Temperature -- If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>0.7</u>		Corrected Temp (°C): <u>0.7</u>	
• Sample Container Temperature			
Container(s) used.	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE If yes, contact PM before proceeding If no, proceed with login			
Additional Comments			

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>SCS</u>			
City/State:	CITY <u>West Des Moines</u>	STATE <u>IA</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>11-12-25</u>	TIME <u>1520</u>	Received By: <u>BP</u>
Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler? ☒ Yes ☐ No If yes: Cooler ID: _____			
Multiple Coolers? ☒ Yes ☐ No If yes: Cooler # <u>3</u> of <u>3</u>			
Cooler Custody Seals Present? ☐ Yes ☒ No If yes: Cooler custody seals intact? ☐ Yes ☐ No			
Sample Custody Seals Present? ☐ Yes ☒ No If yes: Sample custody seals intact? ☐ Yes ☐ No			
Trip Blank Present? ☒ Yes ☐ No If yes: Which VOA samples are in cooler? ↓			
<u>TB-3, MW-1, MW-32 B, MW-20,</u>			
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>BB</u>		Correction Factor (°C): <u>±0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>-0.3</u>		Corrected Temp (°C): <u>-0.3</u>	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☒ No			
NOTE If yes, contact PM before proceeding If no, proceed with login			
Additional Comments			

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-320348-1

SDG Number: WRD North

Login Number: 320348

List Number: 1

Creator: Hirsch, Preston

List Source: Eurofins Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Appendix B-2

Data Validation

Completed by: Semir Omerovic
Date of Sampling: 5/8/2025
Lab Report Date: 5/21/2025
Site Name: WRD Landfill - South
Project Type: 1st 2025 Semi-Annual Sampling Event
Lab Report Number: 310-306161-1

OK NO N/A NOTES

Sample Collection and Sample Handling

Chain of Custody
Temperature
Preservation
Condition
Case Narrative
Holding Times

X			
X			
X			
X			
X			
X			

Analytical Sensitivity and Blanks

Method Blank Detections
Trip Blank Detections

X			
X			

Accuracy

ICV/CCV

	X		Method 8260D: The continuing calibration verification (CCV) associated with batch 310-454541 recovered above the upper control limit for Carbon disulfide (23.3%D), 4-Methyl-2-pentanone (MIBK) (21.8%D) and 2-Butanone (MEK) (21.6%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data has been reported. The associated sample is:(CCV 310-454541/3).
--	---	--	--

LCS/LCSD

	X		Method 6020B: The laboratory control sample (LCS) for preparation batch 310-454836 and analytical batch 310-455033 recovered outside control limits for the following analytes: silver. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data has been reported.
--	---	--	--

MS/MSD

Surrogates (organics only)

X			
X			

Precision

QA/QC Sample RPDs

Field Duplicates

X			
X			A field duplicate sample was collected at MW-30L. RPD for analyzed parameters was <50%.

Completed by: Semir Omerovic
Date of Sampling: 10/1/2025
Lab Report Date: 10/13/2025
Site Name: WRD Landfill - South
Project Type: WRD South MW-30L Retest
Lab Report Number: 310-317088-1

OK NO N/A NOTES

Sample Collection and Sample Handling

Chain of Custody
Temperature
Preservation
Condition
Case Narrative
Holding Times

X			
X			
X			
X			
X			
X			

Analytical Sensitivity and Blanks

Method Blank Detections
Trip Blank Detections

		X	
		X	

Accuracy

ICV/CCV
LCS/LCSD
MS/MSD
Surrogates (organics only)

X			
X			
X			
X			

Precision

QA/QC Sample RPDs
Field Duplicates

X			
		X	

Completed by: Semir Omerovic
Date of Sampling: 11/10/2025
Lab Report Date: 12/4/2025
Site Name: WRD Landfill - South
Project Type: 2nd 2025 Semi-Annual Sampling Event
Lab Report Number: 310-320348-1

OK NO N/A NOTES

Sample Collection and Sample Handling

Chain of Custody

Temperature

Preservation

Condition

Case Narrative

Holding Times

Analytical Sensitivity and Blanks

Method Blank Detections

Trip Blank Detections

Accuracy

ICV/CCV

LCS/LCSD

MS/MSD

Surrogates (organics only)

Precision

QA/QC Sample RPDs

Field Duplicates

X			
X			
	X		Method 8260D: The following sample was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed outside the 7-day holding time specified for unpreserved samples but within the 14-day holding time specified for preserved samples: MW-32R (310-320348-7).
	X		Method 8260D: The method requirement for no headspace was not met. The following volatile samples were analyzed with headspace in the sample containers: Trip Blank 1 (310-320348-11), Trip Blank 2 (310-320348-12) and Trip Blank 3 (310-320348-13).
X			
X			

X			
X			

	X		Method 6020B: The initial calibration verification (ICV) result for batch 310-474577 was above the upper control limit. The affected analytes are: Thallium. Sample results were non-detects, and have been reported as qualified data.
			Method 6020B: The initial calibration verification (ICV) result for batch 310-474554 was above the upper control limit. The affected analytes are: Thallium. Sample results were non-detects, and have been reported as qualified data.
	X		Method 6020B: The laboratory control sample (LCS) for preparation batch 310-473632 and analytical batch 310-474577 recovered outside control limits for the following analytes: Silver. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.
			Method 6020B: The laboratory control sample (LCS) for preparation batch 310-473633 and analytical batch 310-474554 recovered outside control limits for the following analytes: Silver. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.
X			
X			

X			
		X	



Appendix C

Summary of Groundwater Chemistry

SCS ENGINEERS

Summary of Groundwater Chemistry

Wayne-Ringgold-Decatur Sanitary Landfill - 27-SDP-01-75P

	Sample Date	MW-30L DNG	MW-31 DNG
Total Metals Constituents			
Antimony, mg/L (CAS NO - 7440-36-0)	5/8/2025	< 0.002	< 0.002
	5/8/2025	< 0.002	N/A
	11/10/2025	< 0.002	< 0.002
Arsenic, mg/L (CAS NO - 7440-38-2)	5/8/2025	< 0.002	< 0.002
	5/8/2025	< 0.002	N/A
	11/10/2025	0.000557*	< 0.002
Barium, mg/L (CAS NO - 7440-39-3)	5/8/2025	0.0768	0.131
	5/8/2025	0.0782	N/A
	11/10/2025	0.0791	0.148
Beryllium, mg/L (CAS NO - 7440-41-7)	5/8/2025	< 0.001	< 0.001
	5/8/2025	< 0.001	N/A
	11/10/2025	< 0.001	< 0.001
Cadmium, mg/L (CAS NO - 7440-43-9)	5/8/2025	< 0.0002	0.000101*
	5/8/2025	< 0.0002	N/A
	11/10/2025	< 0.0002	< 0.0002
Chromium, mg/L (CAS NO - 7440-47-3)	5/8/2025	< 0.005	< 0.005
	5/8/2025	< 0.005	N/A
	11/10/2025	< 0.005	< 0.005
Cobalt, mg/L (CAS NO - 7440-48-4)	5/8/2025	< 0.0005	< 0.0005
	5/8/2025	< 0.0005	N/A
	11/10/2025	< 0.0005	< 0.0005
Copper, mg/L (CAS NO - 7440-50-8)	5/8/2025	< 0.005	< 0.005
	5/8/2025	< 0.005	N/A
	11/10/2025	< 0.005	< 0.005
Lead, mg/L (CAS NO - 7439-92-1)	5/8/2025	< 0.0005	< 0.0005
	5/8/2025	< 0.0005	N/A
	11/10/2025	< 0.0005	< 0.0005
Nickel, mg/L (CAS NO - 7440-02-0)	5/8/2025	< 0.005	< 0.005
	5/8/2025	< 0.005	N/A
	11/10/2025	< 0.005	0.00233*
Selenium, mg/L (CAS NO - 7782-49-2)	5/8/2025	0.00568	< 0.005
	5/8/2025	0.00531	N/A
	10/1/2025	0.00532	N/A
	11/10/2025	0.00489*	< 0.005
Silver, mg/L (CAS NO - 7440-22-4)	5/8/2025	< 0.001	< 0.001
	5/8/2025	< 0.001	N/A
	11/10/2025	< 0.001	< 0.001
Thallium, mg/L (CAS NO - 7440-28-0)	5/8/2025	< 0.001	< 0.001
	5/8/2025	< 0.001	N/A
	11/10/2025	< 0.001	< 0.001
Vanadium, mg/L (CAS NO - 7440-62-2)	5/8/2025	< 0.005	< 0.005
	5/8/2025	< 0.005	N/A
	11/10/2025	0.00213*	< 0.005
Zinc, mg/L (CAS NO - 7440-66-6)	5/8/2025	< 0.02	< 0.02
	5/8/2025	< 0.02	N/A
	11/10/2025	< 0.02	< 0.02
Total Suspended Solids, mg/L (CAS NO - TSS)	5/8/2025	1.75*	1.38*
	5/8/2025	< 1.88	N/A
	10/1/2025	2.25	N/A
	11/10/2025	2.88	< 5

Note: * indicates 'J flag'. Detection is below the reporting limit, but greater than the MDL (Method Detection Limit). The concentration is estimated.

Denotes Detection.

Denotes Confirmed Outlier. Statistically Excluded.

Sampling performed over multiple dates is recorded on the first date sampled. Refer to field forms for exact sample date.

SCS ENGINEERS

Summary of Groundwater Chemistry

Wayne-Ringgold-Decatur Sanitary Landfill - 27-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-30L DNG	MW-31 DNG
1,1,1,2-Tetrachloroethane, ug/L (CAS NO - 630-20-6)	5/8/2025	< 1	< 1
	5/8/2025	< 1	N/A
	11/10/2025	< 1	< 1
1,1,1-Trichloroethane, ug/L (CAS NO - 71-55-6)	5/8/2025	< 1	< 1
	5/8/2025	< 1	N/A
	11/10/2025	< 1	< 1
1,1,2,2-Tetrachloroethane, ug/L (CAS NO - 79-34-5)	5/8/2025	< 1	< 1
	5/8/2025	< 1	N/A
	11/10/2025	< 1	< 1
1,1,2-Trichloroethane, ug/L (CAS NO - 79-00-5)	5/8/2025	< 1	< 1
	5/8/2025	< 1	N/A
	11/10/2025	< 1	< 1
1,1-Dichloroethane, ug/L (CAS NO - 75-34-3)	5/8/2025	< 1	< 1
	5/8/2025	< 1	N/A
	11/10/2025	< 1	< 1
1,1-Dichloroethene, ug/L (CAS NO - 75-35-4)	5/8/2025	< 2	< 2
	5/8/2025	< 2	N/A
	11/10/2025	< 2	< 2
1,2,3-Trichloropropane, ug/L (CAS NO - 96-18-4)	5/8/2025	< 1	< 1
	5/8/2025	< 1	N/A
	11/10/2025	< 1	< 1
1,2-Dibromo-3-Chloropropane, ug/L (CAS NO - 96-12-8)	5/8/2025	< 5	< 5
	5/8/2025	< 5	N/A
	11/10/2025	< 5	< 5
1,2-Dibromoethane [EDB], ug/L (CAS NO - 106-93-4)	5/8/2025	< 1	< 1
	5/8/2025	< 1	N/A
	11/10/2025	< 1	< 1
1,2-Dichlorobenzene, ug/L (CAS NO - 95-50-1)	5/8/2025	< 1	< 1
	5/8/2025	< 1	N/A
	11/10/2025	< 1	< 1
1,2-Dichloroethane, ug/L (CAS NO - 107-06-2)	5/8/2025	< 1	< 1
	5/8/2025	< 1	N/A
	11/10/2025	< 1	< 1
1,2-Dichloropropane, ug/L (CAS NO - 78-87-5)	5/8/2025	< 1	< 1
	5/8/2025	< 1	N/A
	11/10/2025	< 1	< 1
1,4-Dichlorobenzene, ug/L (CAS NO - 106-46-7)	5/8/2025	< 1	< 1
	5/8/2025	< 1	N/A
	11/10/2025	< 1	< 1
2-Butanone, ug/L (CAS NO - 78-93-3)	5/8/2025	< 10	< 10
	5/8/2025	< 10	N/A
	11/10/2025	< 10	< 10
2-Hexanone, ug/L (CAS NO - 591-78-6)	5/8/2025	< 10	< 10
	5/8/2025	< 10	N/A
	11/10/2025	< 10	< 10
4-Methyl-2-Pentanone, ug/L (CAS NO - 108-10-1)	5/8/2025	< 10	< 10
	5/8/2025	< 10	N/A
	11/10/2025	< 10	< 10
Acetone, ug/L (CAS NO - 67-64-1)	5/8/2025	< 10	< 10
	5/8/2025	< 10	N/A
	11/10/2025	< 10	< 10
Acrylonitrile, ug/L (CAS NO - 107-13-1)	5/8/2025	< 5	< 5
	5/8/2025	< 5	N/A
	11/10/2025	< 5	< 5

SCS ENGINEERS

Summary of Groundwater Chemistry

Wayne-Ringgold-Decatur Sanitary Landfill - 27-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-30L DNG	MW-31 DNG
Benzene, ug/L (CAS NO - 71-43-2)	5/8/2025	< 0.5	< 0.5
	5/8/2025	< 0.5	N/A
	11/10/2025	< 0.5	< 0.5
Bromochloromethane, ug/L (CAS NO - 74-97-5)	5/8/2025	< 5	< 5
	5/8/2025	< 5	N/A
	11/10/2025	< 5	< 5
Bromodichloromethane, ug/L (CAS NO - 75-27-4)	5/8/2025	< 1	< 1
	5/8/2025	< 1	N/A
	11/10/2025	< 1	< 1
Bromoform, ug/L (CAS NO - 75-25-2)	5/8/2025	< 5	< 5
	5/8/2025	< 5	N/A
	11/10/2025	< 5	< 5
Bromomethane, ug/L (CAS NO - 74-83-9)	5/8/2025	< 4	< 4
	5/8/2025	< 4	N/A
	11/10/2025	< 4	< 4
Carbon Disulfide, ug/L (CAS NO - 75-15-0)	5/8/2025	< 1	< 1
	5/8/2025	< 1	N/A
	11/10/2025	< 1	< 1
Carbon Tetrachloride, ug/L (CAS NO - 56-23-5)	5/8/2025	< 2	< 2
	5/8/2025	< 2	N/A
	11/10/2025	< 2	< 2
Chlorobenzene, ug/L (CAS NO - 108-90-7)	5/8/2025	< 1	< 1
	5/8/2025	< 1	N/A
	11/10/2025	< 1	< 1
Chlorodibromomethane, ug/L (CAS NO - 124-48-1)	5/8/2025	< 5	< 5
	5/8/2025	< 5	N/A
	11/10/2025	< 5	< 5
Chloroethane, ug/L (CAS NO - 75-00-3)	5/8/2025	< 4	< 4
	5/8/2025	< 4	N/A
	11/10/2025	< 4	< 4
Chloroform, ug/L (CAS NO - 67-66-3)	5/8/2025	< 3	< 3
	5/8/2025	< 3	N/A
	11/10/2025	< 3	< 3
Chloromethane, ug/L (CAS NO - 74-87-3)	5/8/2025	< 3	< 3
	5/8/2025	< 3	N/A
	11/10/2025	< 3	< 3
cis-1,2-Dichloroethene, ug/L (CAS NO - 156-59-2)	5/8/2025	< 1	< 1
	5/8/2025	< 1	N/A
	11/10/2025	< 1	< 1
cis-1,3-Dichloropropene, ug/L (CAS NO - 10061-01-5)	5/8/2025	< 5	< 5
	5/8/2025	< 5	N/A
	11/10/2025	< 5	< 5
Ethylbenzene, ug/L (CAS NO - 100-41-4)	5/8/2025	< 1	< 1
	5/8/2025	< 1	N/A
	11/10/2025	< 1	< 1
Iodomethane, ug/L (CAS NO - 74-88-4)	5/8/2025	< 10	< 10
	5/8/2025	< 10	N/A
	11/10/2025	< 10	< 10
Methylene Bromide, ug/L (CAS NO - 74-95-3)	5/8/2025	< 1	< 1
	5/8/2025	< 1	N/A
	11/10/2025	< 1	< 1
Methylene Chloride, ug/L (CAS NO - 75-09-2)	5/8/2025	< 5	< 5
	5/8/2025	< 5	N/A
	11/10/2025	< 5	< 5

SCS ENGINEERS

Summary of Groundwater Chemistry

Wayne-Ringgold-Decatur Sanitary Landfill - 27-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-30L DNG	MW-31 DNG
Styrene, ug/L (CAS NO - 100-42-5)	5/8/2025	< 1	< 1
	5/8/2025	< 1	N/A
	11/10/2025	< 1	< 1
Tetrachloroethene, ug/L (CAS NO - 127-18-4)	5/8/2025	< 1	< 1
	5/8/2025	< 1	N/A
	11/10/2025	< 1	< 1
Toluene, ug/L (CAS NO - 108-88-3)	5/8/2025	< 1	< 1
	5/8/2025	< 1	N/A
	11/10/2025	< 1	< 1
trans-1,2-Dichloroethene, ug/L (CAS NO - 156-60-5)	5/8/2025	< 1	< 1
	5/8/2025	< 1	N/A
	11/10/2025	< 1	< 1
trans-1,3-Dichloropropene, ug/L (CAS NO - 10061-02-6)	5/8/2025	< 5	< 5
	5/8/2025	< 5	N/A
	11/10/2025	< 5	< 5
trans-1,4-Dichloro-2-Butene, ug/L (CAS NO - 110-57-6)	5/8/2025	< 10	< 10
	5/8/2025	< 10	N/A
	11/10/2025	< 10	< 10
Trichloroethene, ug/L (CAS NO - 79-01-6)	5/8/2025	< 1	< 1
	5/8/2025	< 1	N/A
	11/10/2025	< 1	< 1
Trichlorofluoromethane, ug/L (CAS NO - 75-69-4)	5/8/2025	< 4	< 4
	5/8/2025	< 4	N/A
	11/10/2025	< 4	< 4
Vinyl Acetate, ug/L (CAS NO - 108-05-4)	5/8/2025	< 10	< 10
	5/8/2025	< 10	N/A
	11/10/2025	< 10	< 10
Vinyl Chloride, ug/L (CAS NO - 75-01-4)	5/8/2025	< 1	< 1
	5/8/2025	< 1	N/A
	11/10/2025	< 1	< 1
Xylenes, total, ug/L (CAS NO - 1330-20-7)	5/8/2025	< 3	< 3
	5/8/2025	< 3	N/A
	11/10/2025	< 3	< 3

Note: * indicates 'J flag'. Detection is below the reporting limit, but greater than the MDL (Method Detection Limit). The concentration is estimated.

Denotes Detection.

Denotes Confirmed Outlier. Statistically Excluded.

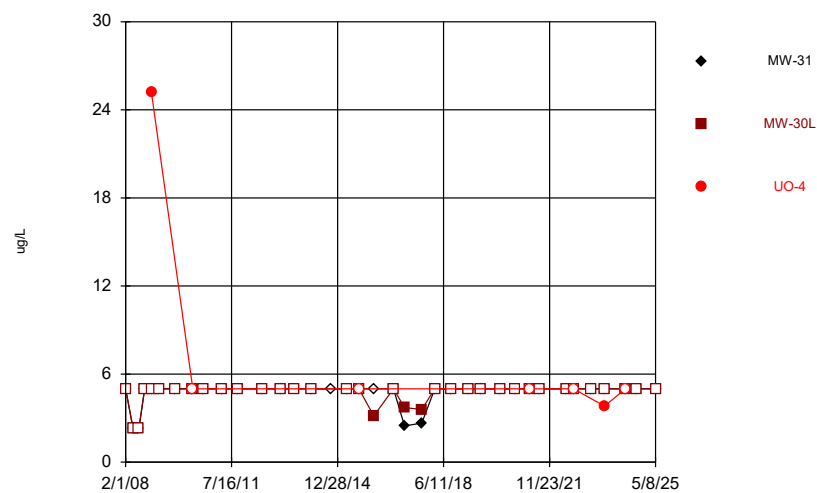
Sampling performed over multiple dates is recorded on the first date sampled. Refer to field forms for exact sample date.



Appendix D

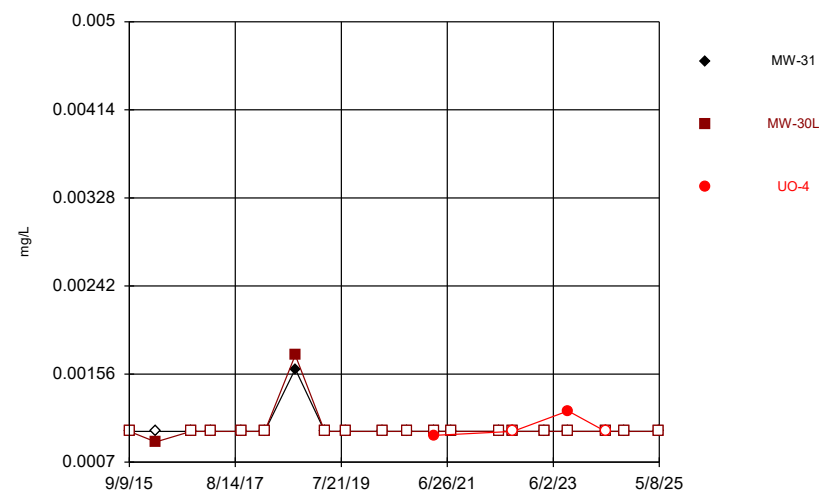
Summary of Statistical Method and Output

Time Series



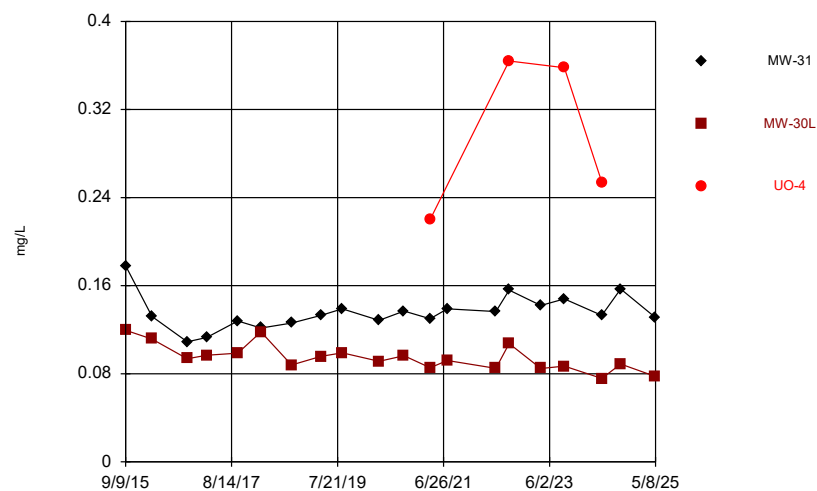
Constituent: Acetone Analysis Run 7/24/2025 6:13 PM View: 2025_SSN-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Time Series



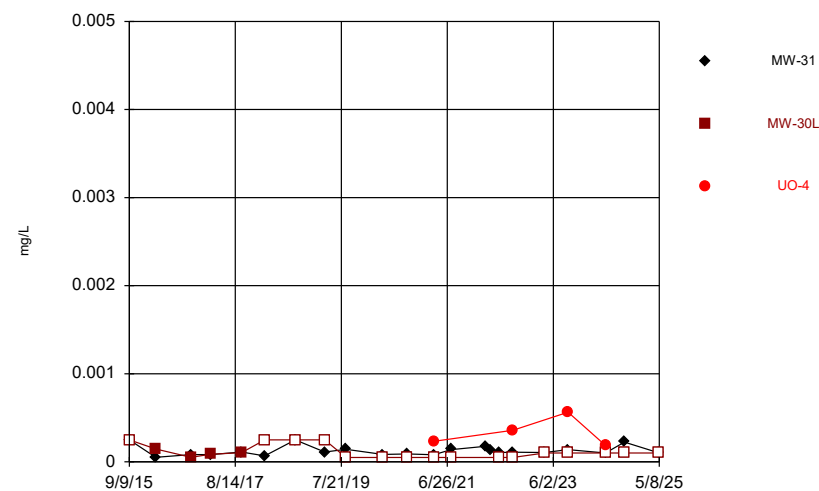
Constituent: Arsenic Analysis Run 7/24/2025 6:13 PM View: 2025_SSN-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Time Series



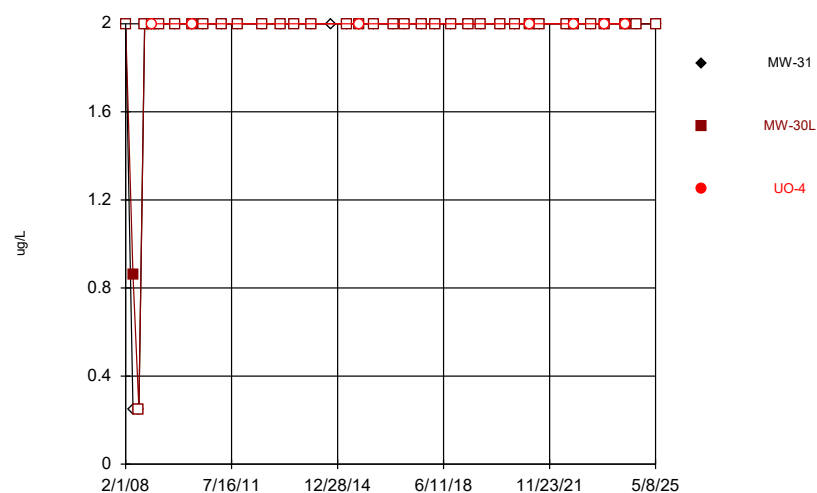
Constituent: Barium Analysis Run 7/24/2025 6:13 PM View: 2025_SSN-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Time Series



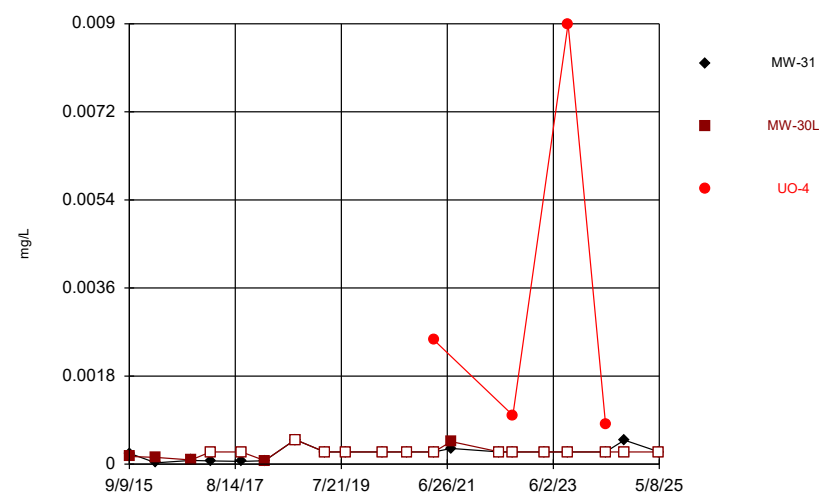
Constituent: Cadmium Analysis Run 7/24/2025 6:13 PM View: 2025_SSN-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Time Series



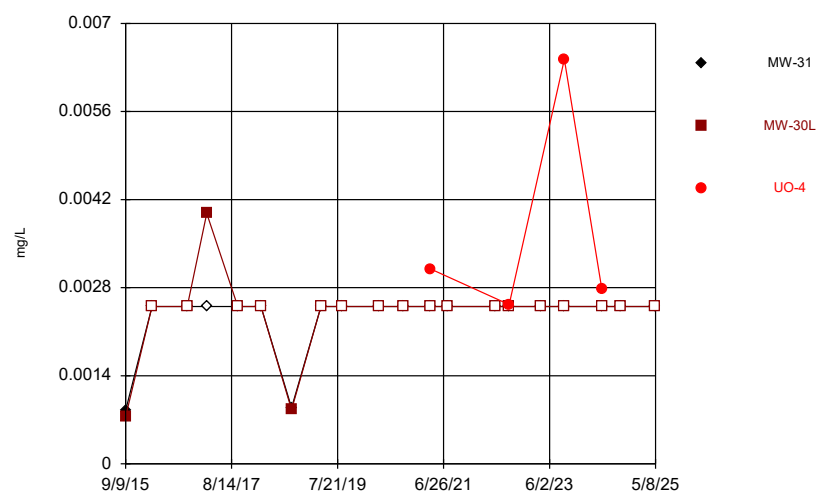
Constituent: Chloroethane Analysis Run 7/24/2025 6:13 PM View: 2025_SSN-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Time Series



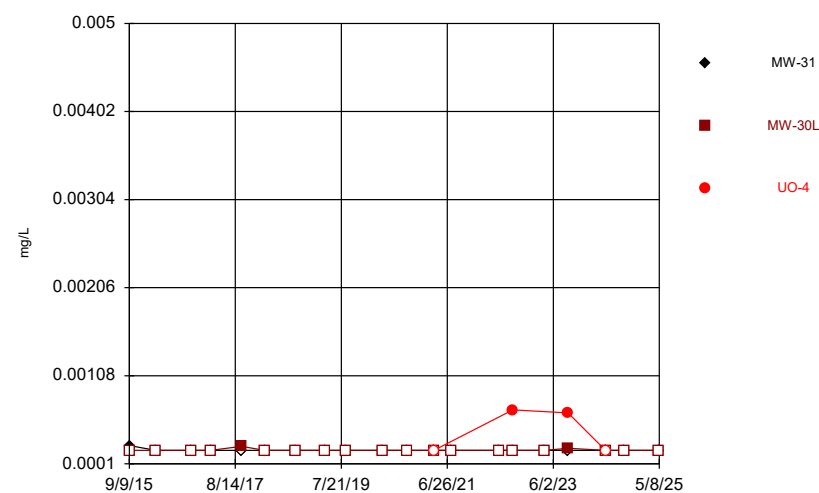
Constituent: Cobalt Analysis Run 7/24/2025 6:13 PM View: 2025_SSN-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Time Series



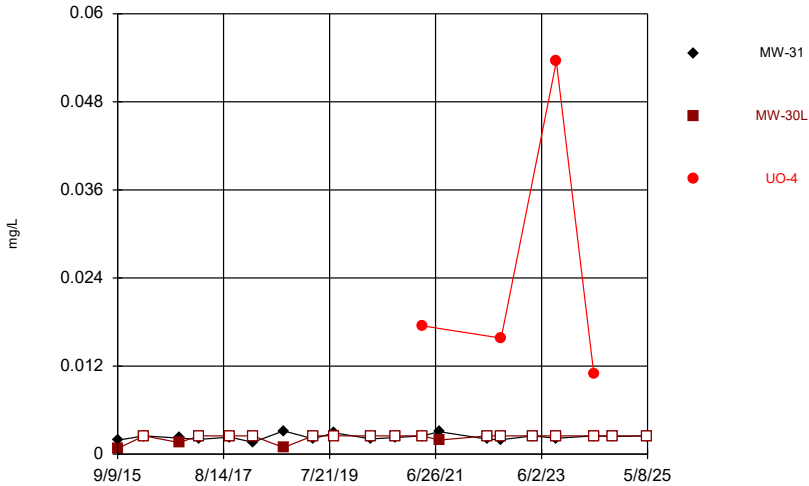
Constituent: Copper Analysis Run 7/24/2025 6:13 PM View: 2025_SSN-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Time Series



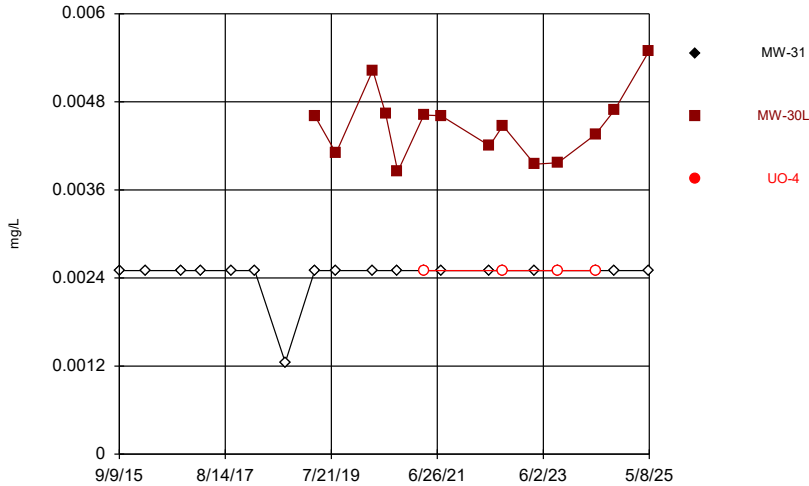
Constituent: Lead Analysis Run 7/24/2025 6:13 PM View: 2025_SSN-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Time Series



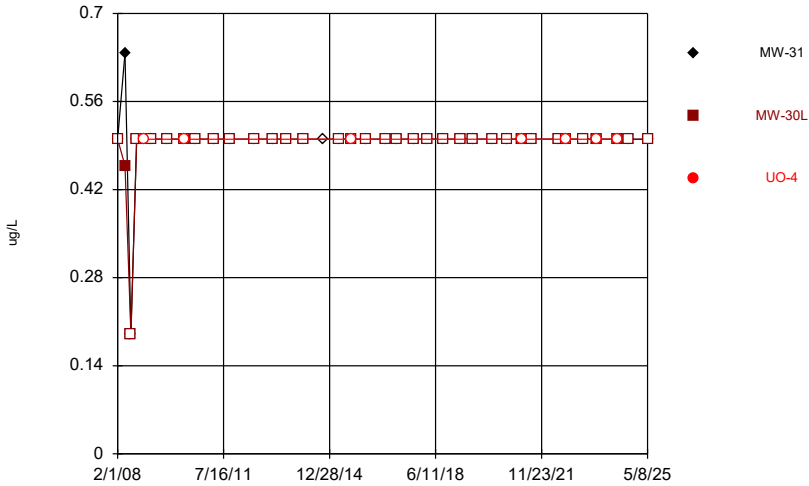
Constituent: Nickel Analysis Run 7/24/2025 6:13 PM View: 2025_SSN-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Time Series



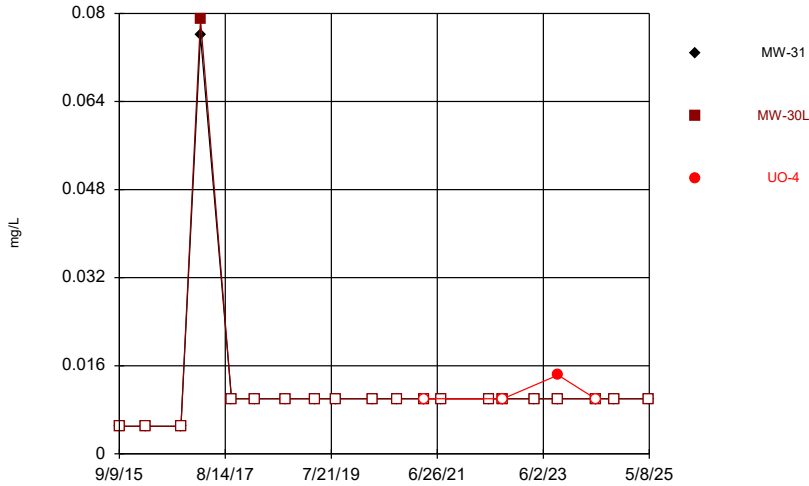
Constituent: Selenium Analysis Run 7/24/2025 6:13 PM View: 2025_SSN-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Time Series



Constituent: Tetrachloroethene Analysis Run 7/24/2025 6:13 PM View: 2025_SSN-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Time Series



Constituent: Zinc Analysis Run 7/24/2025 6:13 PM View: 2025_SSN-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

BG Outlier Analysis

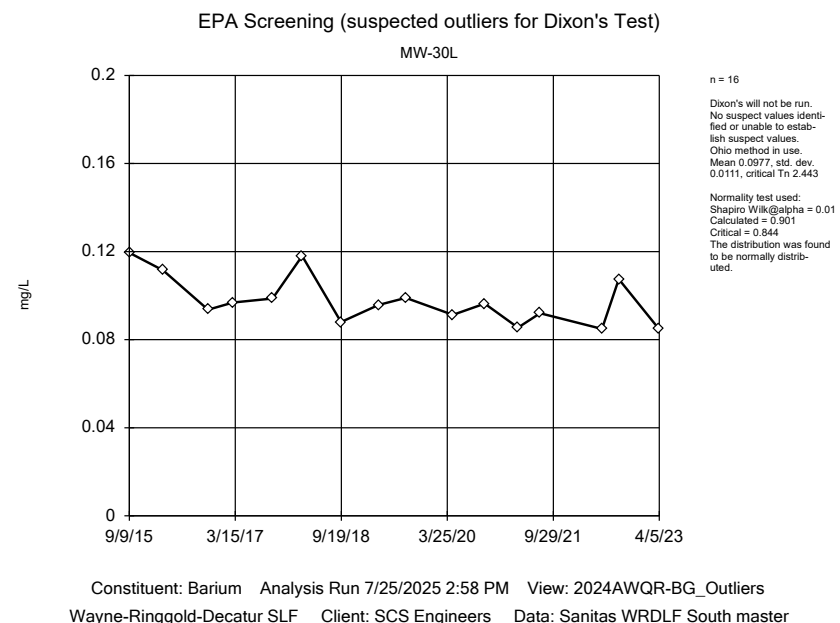
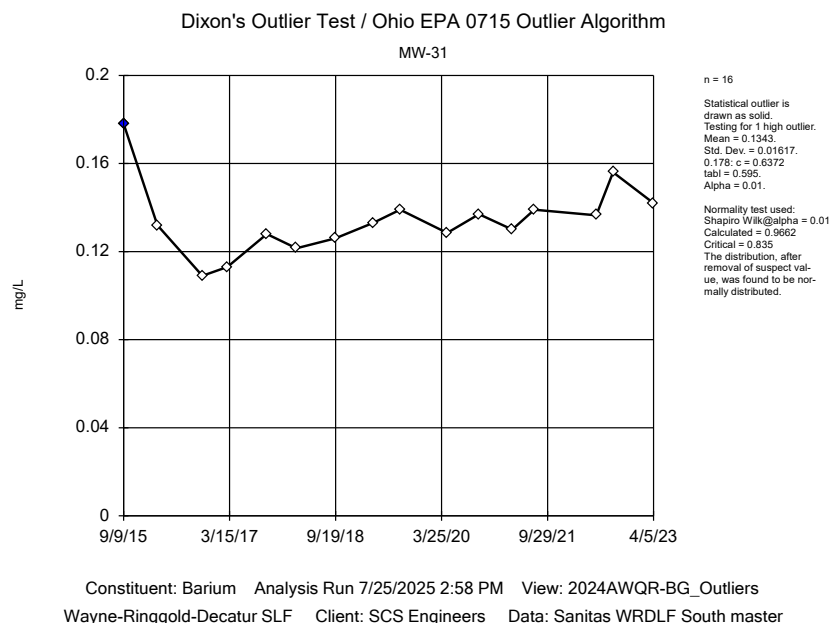
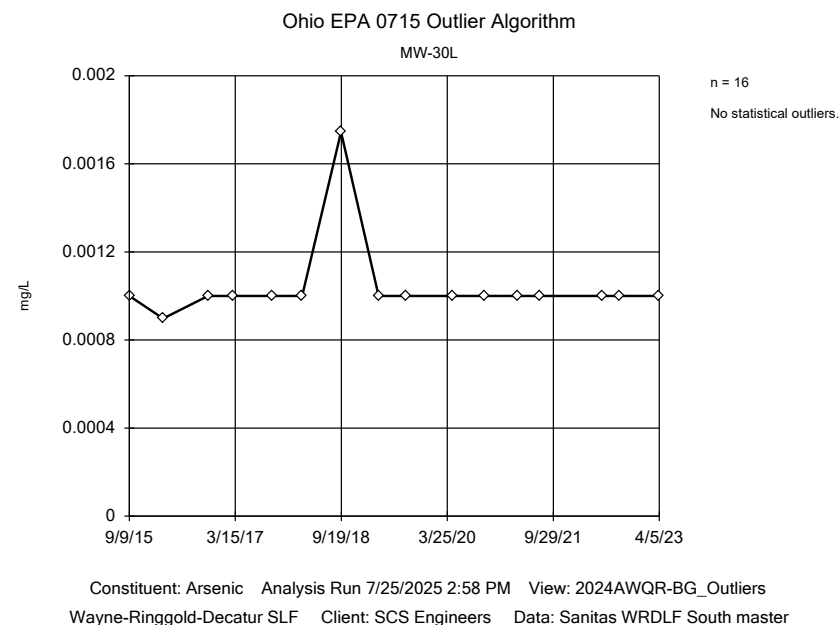
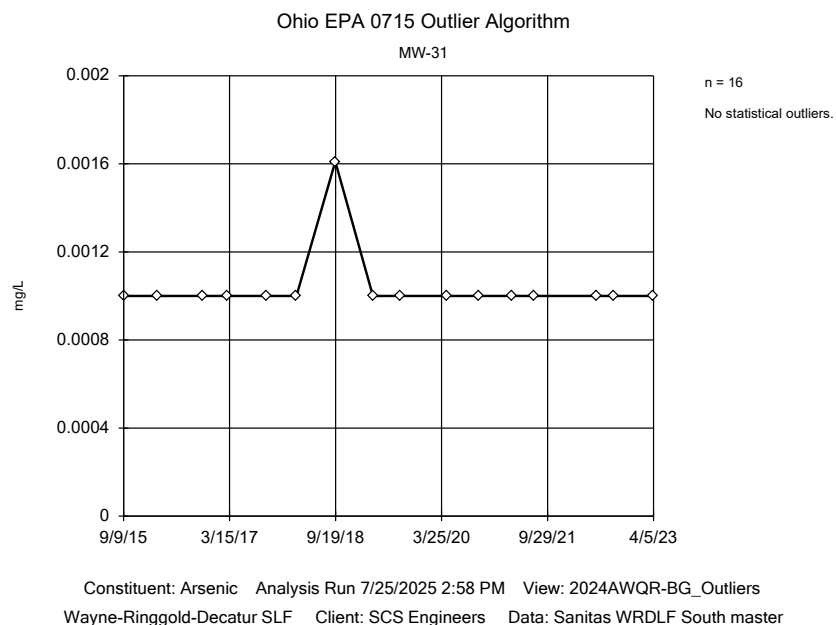
Wayne-Ringgold-Decatur SLF

Client: SCS Engineers

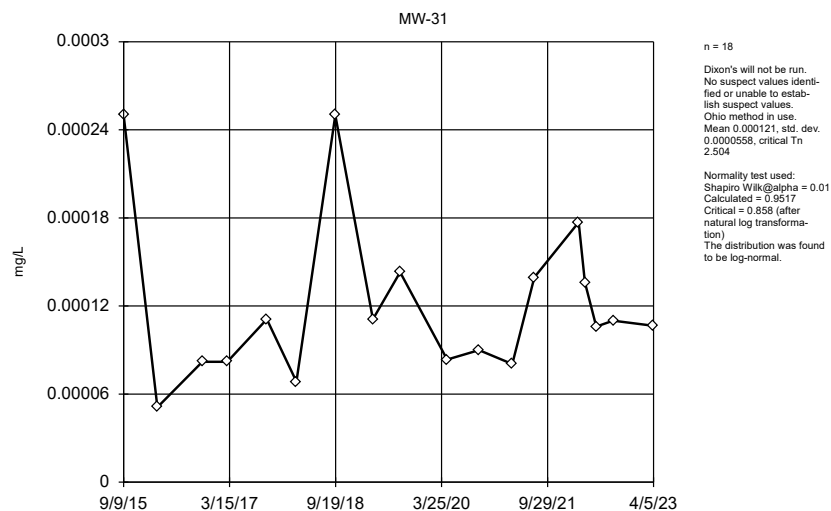
Data: Sanitas WRDLF South master

Printed 7/25/2025, 3:02 PM

<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Arsenic (mg/L)	MW-31	No	n/a	n/a	OH	NaN	16	0.001038	0.0001525	n/a	n/a
Arsenic (mg/L)	MW-30L	No	n/a	n/a	OH	NaN	16	0.00104	0.0001897	n/a	n/a
Barium (mg/L)	MW-31	Yes	0.178	9/9/2015	Dixon/OH	0.01	16	0.1343	0.01617	normal	ShapiroWilk
Barium (mg/L)	MW-30L	No	n/a	n/a	EPA/OH	0.05	16	0.0977	0.0111	normal	ShapiroWilk
Cadmium (mg/L)	MW-31	No	n/a	n/a	EPA/OH	0.05	18	0.000121	0.0000558	ln(x)	ShapiroWilk
Cadmium (mg/L)	MW-30L	Yes	0.00025,0.00025,0.00025,0.00025	9/9/2015,2/27/2018,9/18/2018,4/2/2019	OH	NaN	16	0.0001149	0.00008508	n/a	n/a
Chromium (mg/L)	MW-31	No	n/a	n/a	OH	NaN	16	0.002529	0.0004703	n/a	n/a
Chromium (mg/L)	MW-30L	No	n/a	n/a	OH	NaN	16	0.002401	0.0007377	n/a	n/a
Cobalt (mg/L)	MW-31	No	n/a	n/a	NP (nrm)/OH	NaN	16	0.0002089	0.0001224	unknown	ShapiroWilk
Cobalt (mg/L)	MW-30L	Yes	0.0005,0.000461	9/18/2018,7/22/2021	NP (nrm)/OH	NaN	16	0.0002448	0.0001113	unknown	ShapiroWilk
Copper (mg/L)	MW-31	No	n/a	n/a	OH	NaN	16	0.002296	0.0005566	n/a	n/a
Copper (mg/L)	MW-30L	No	n/a	n/a	OH	NaN	16	0.002381	0.000717	n/a	n/a
Lead (mg/L)	MW-31	No	n/a	n/a	OH	NaN	16	0.0002534	0.0000135	n/a	n/a
Lead (mg/L)	MW-30L	No	n/a	n/a	OH	NaN	16	0.0002528	0.000011	n/a	n/a
Nickel (mg/L)	MW-31	No	n/a	n/a	EPA/OH	0.05	16	0.002321	0.0004317	normal	ShapiroWilk
Nickel (mg/L)	MW-30L	No	n/a	n/a	OH	NaN	16	0.002199	0.0005923	n/a	n/a
Selenium (mg/L)	MW-30L	No	n/a	n/a	EPA/OH	0.05	10	0.004429	0.0004104	normal	ShapiroWilk
Silver (mg/L)	MW-31	No	n/a	n/a	OH	NaN	16	0.0004528	0.0001055	n/a	n/a
Silver (mg/L)	MW-30L	No	n/a	n/a	OH	NaN	16	0.0004623	0.0001049	n/a	n/a
Thallium (mg/L)	MW-31	No	n/a	n/a	OH	NaN	16	0.0004478	0.0002311	n/a	n/a
Thallium (mg/L)	MW-30L	No	n/a	n/a	OH	NaN	16	0.0004874	0.0001863	n/a	n/a
Vanadium (mg/L)	MW-31	No	n/a	n/a	NP (nrm)/OH	NaN	16	0.002116	0.0009141	unknown	ShapiroWilk
Vanadium (mg/L)	MW-30L	No	n/a	n/a	EPA/OH	0.05	16	0.00168	0.0009166	normal	ShapiroWilk
Zinc (mg/L)	MW-31	Yes	0.076	3/3/2017	OH	NaN	16	0.01319	0.01687	n/a	n/a
Zinc (mg/L)	MW-30L	Yes	0.0789	3/3/2017	OH	NaN	16	0.01337	0.01759	n/a	n/a

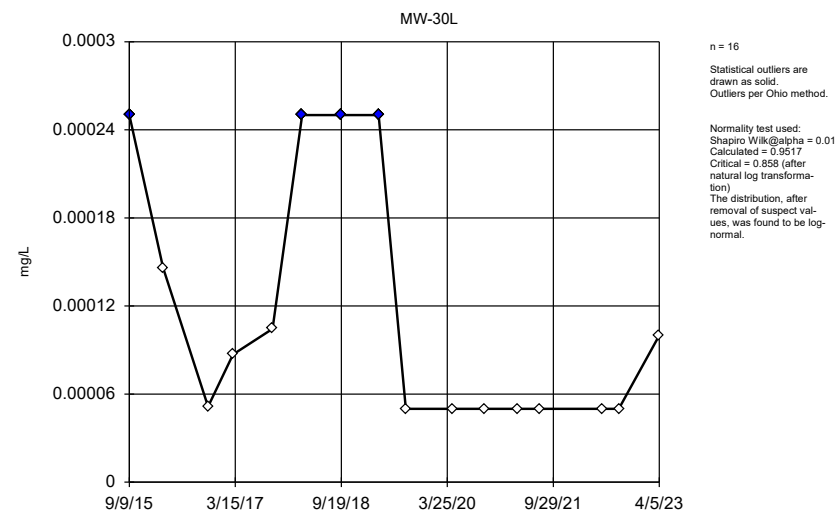


EPA Screening (suspected outliers for Dixon's Test)



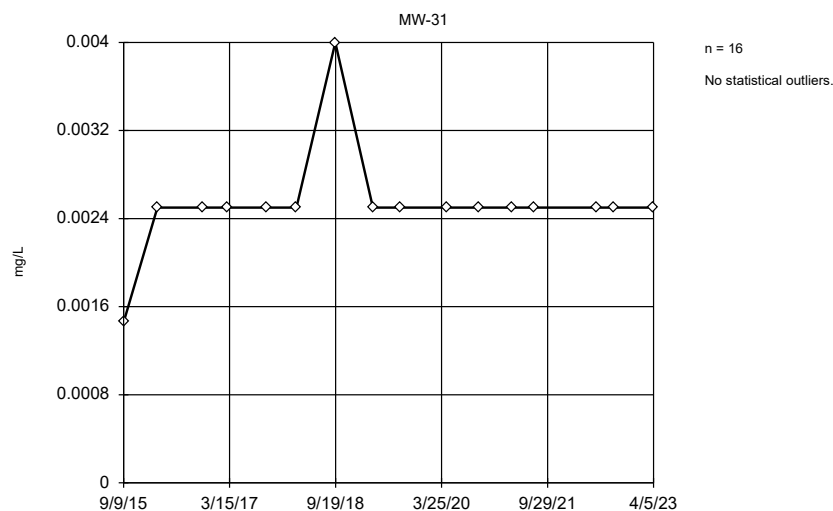
Constituent: Cadmium Analysis Run 7/25/2025 2:58 PM View: 2024AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Ohio EPA 0715 Outlier Algorithm



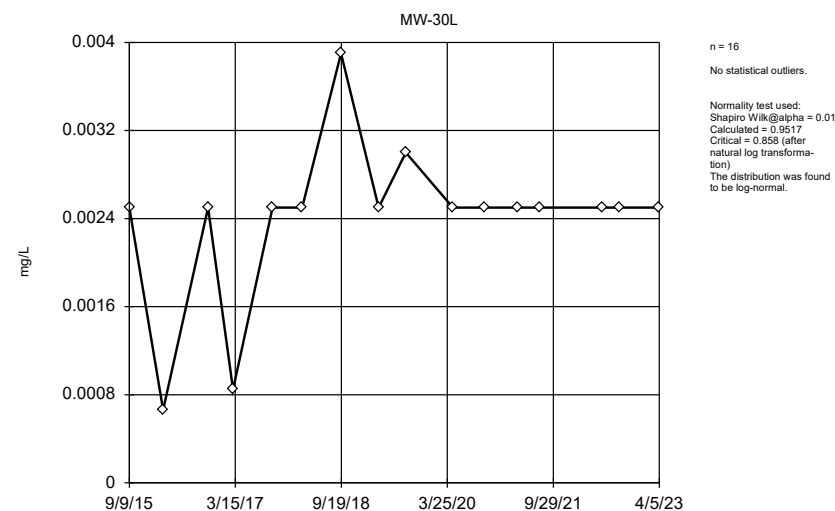
Constituent: Cadmium Analysis Run 7/25/2025 2:58 PM View: 2024AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Ohio EPA 0715 Outlier Algorithm



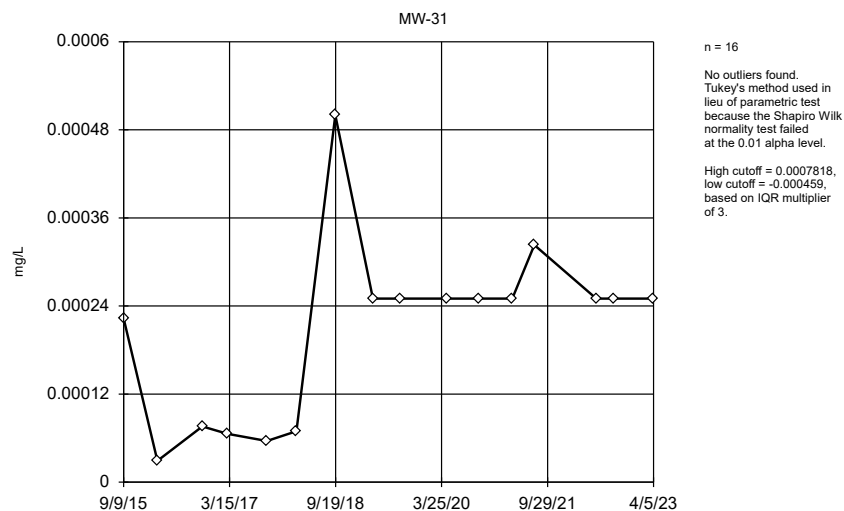
Constituent: Chromium Analysis Run 7/25/2025 2:58 PM View: 2024AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Ohio EPA 0715 Outlier Algorithm



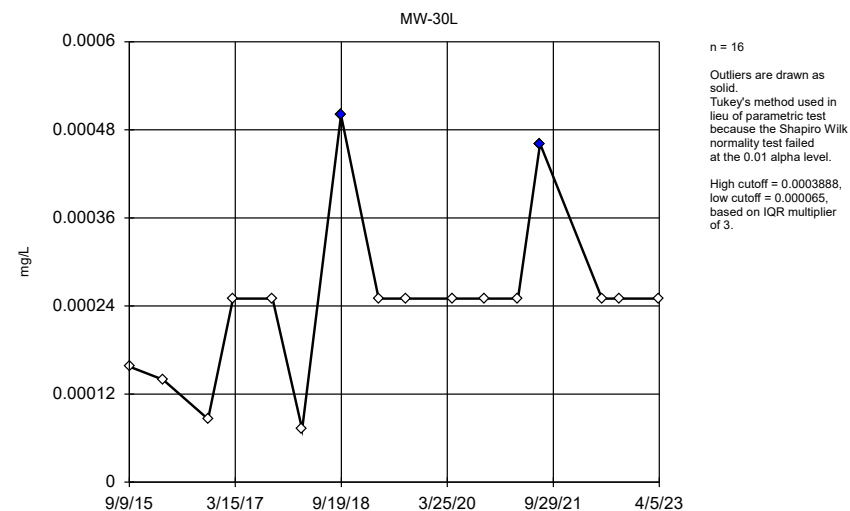
Constituent: Chromium Analysis Run 7/25/2025 2:58 PM View: 2024AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm



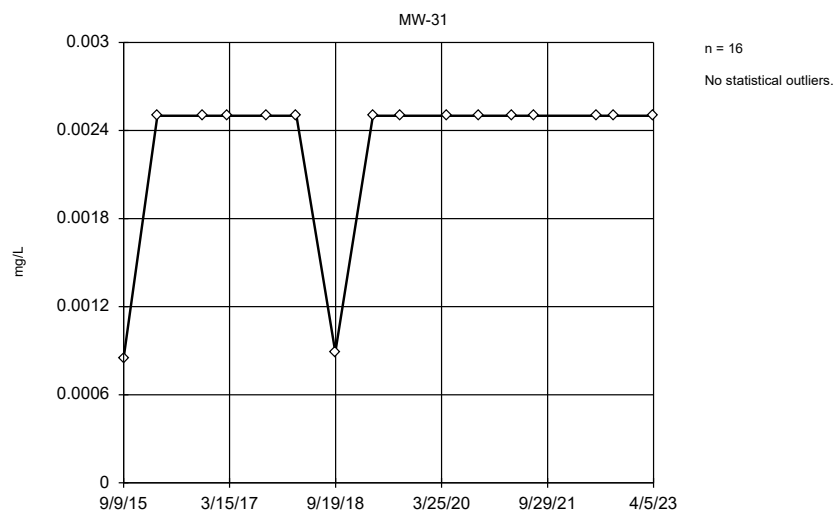
Constituent: Cobalt Analysis Run 7/25/2025 2:58 PM View: 2024AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm



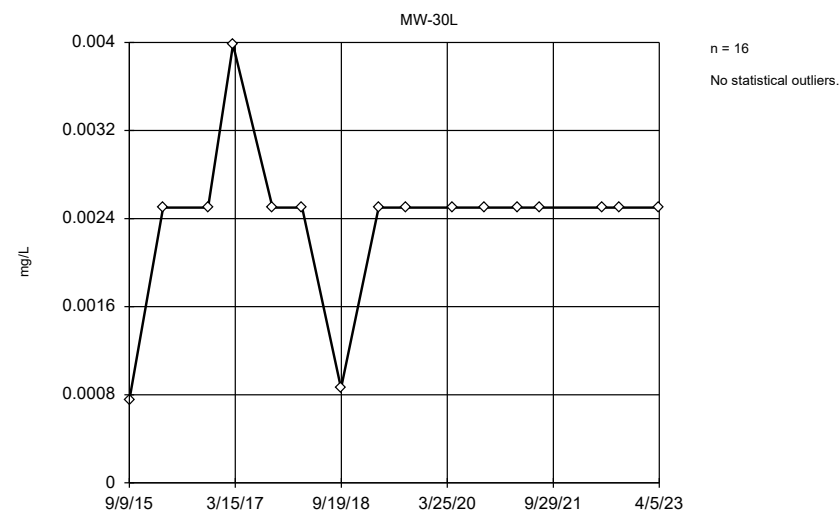
Constituent: Cobalt Analysis Run 7/25/2025 2:58 PM View: 2024AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Ohio EPA 0715 Outlier Algorithm

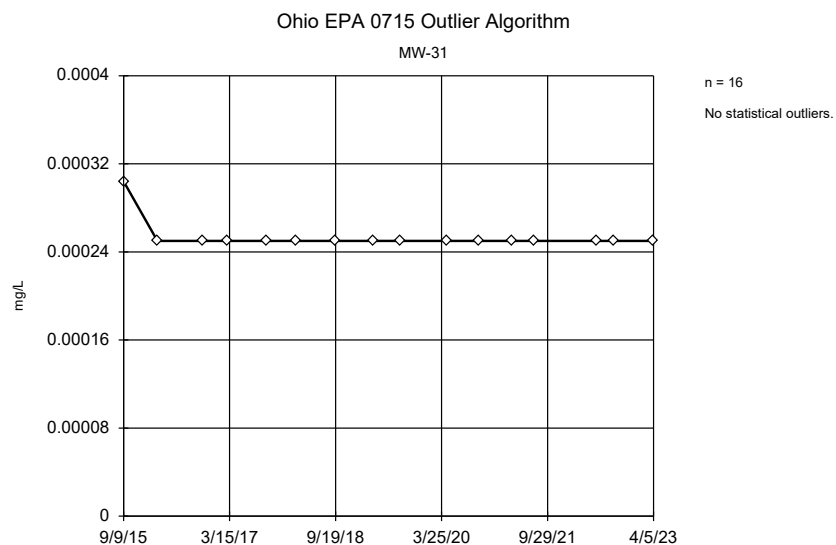


Constituent: Copper Analysis Run 7/25/2025 2:58 PM View: 2024AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

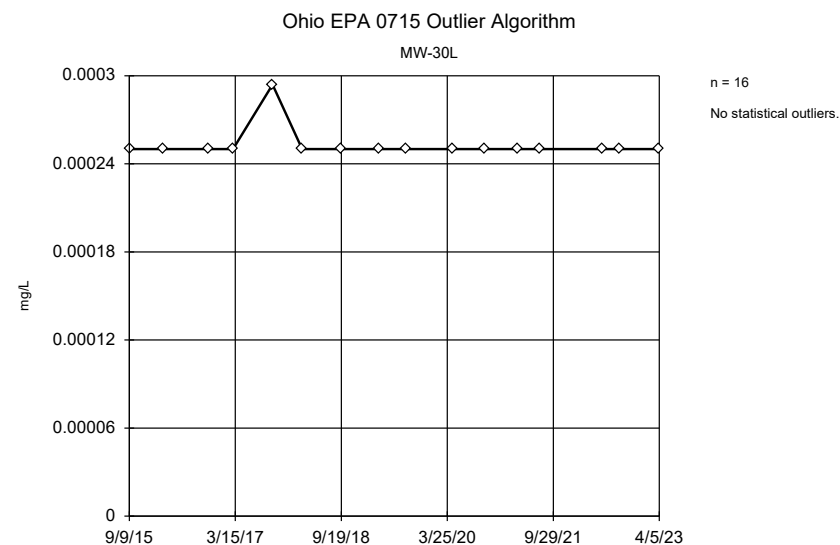
Ohio EPA 0715 Outlier Algorithm



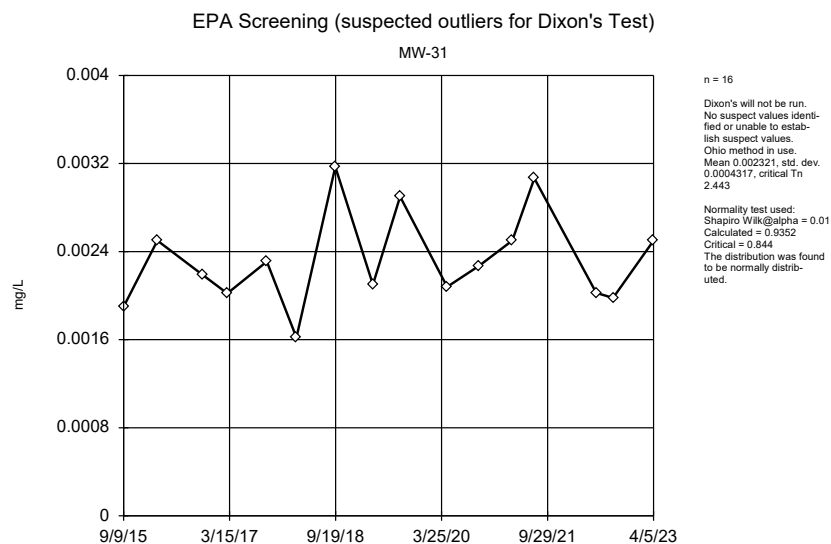
Constituent: Copper Analysis Run 7/25/2025 2:58 PM View: 2024AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master



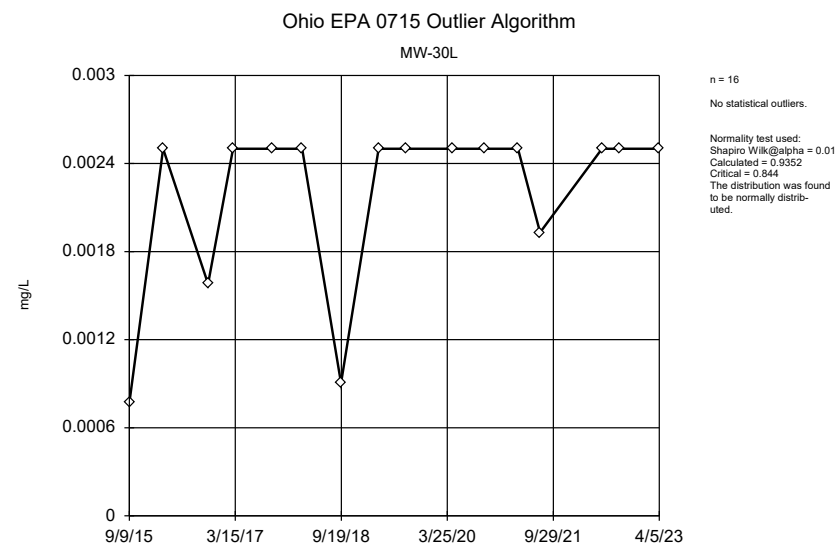
Constituent: Lead Analysis Run 7/25/2025 2:58 PM View: 2024AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master



Constituent: Lead Analysis Run 7/25/2025 2:58 PM View: 2024AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

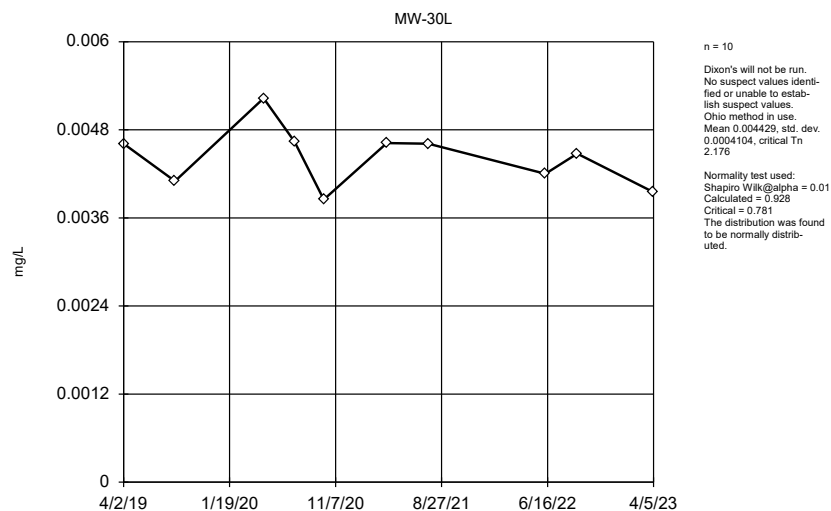


Constituent: Nickel Analysis Run 7/25/2025 2:58 PM View: 2024AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master



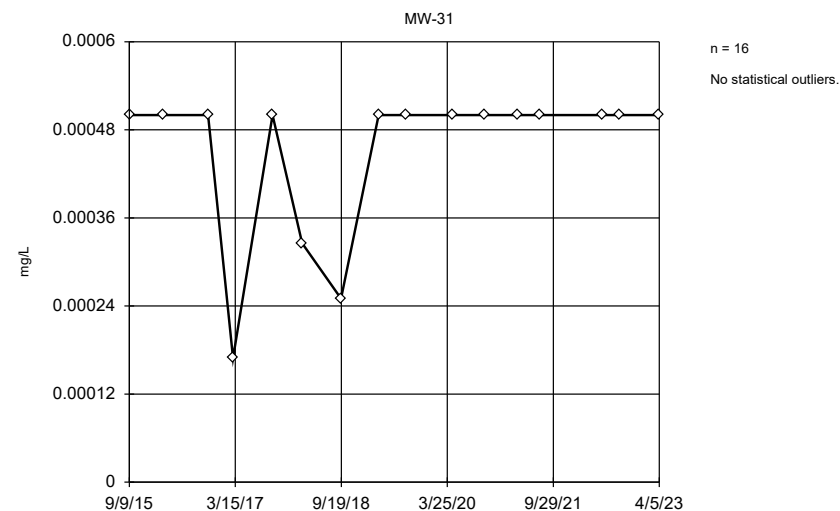
Constituent: Nickel Analysis Run 7/25/2025 2:58 PM View: 2024AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

EPA Screening (suspected outliers for Dixon's Test)



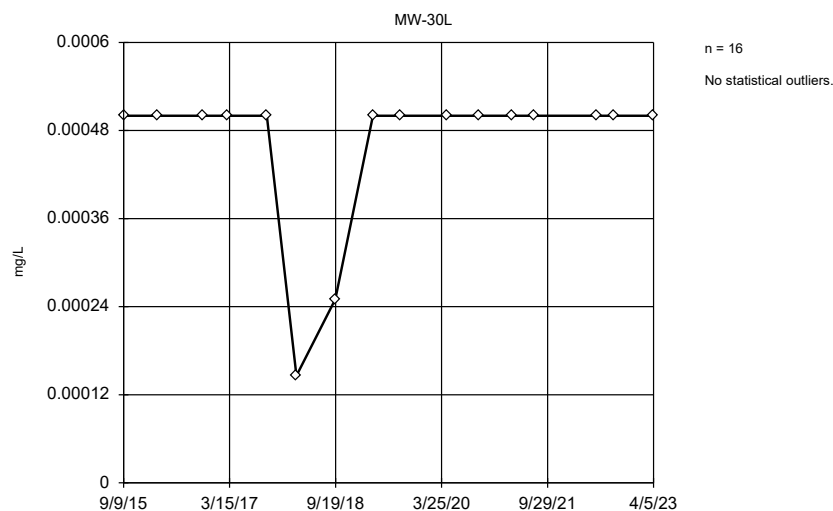
Constituent: Selenium Analysis Run 7/25/2025 2:58 PM View: 2024AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Ohio EPA 0715 Outlier Algorithm



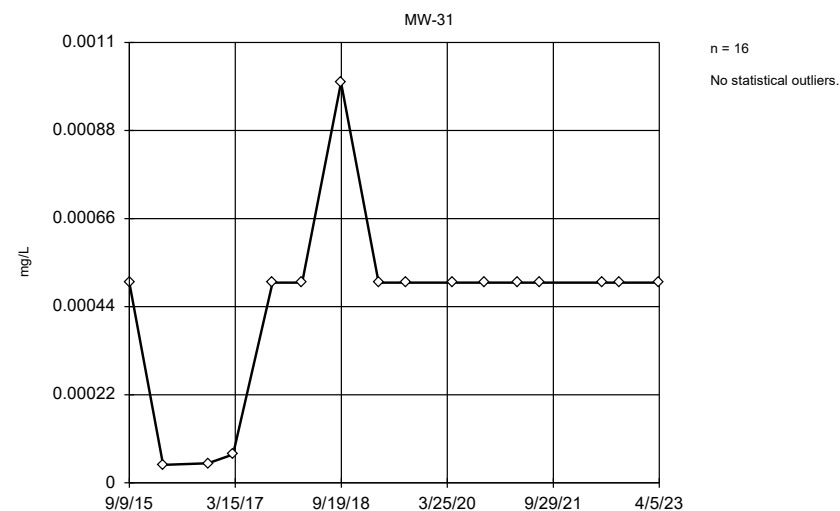
Constituent: Silver Analysis Run 7/25/2025 2:58 PM View: 2024AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Ohio EPA 0715 Outlier Algorithm

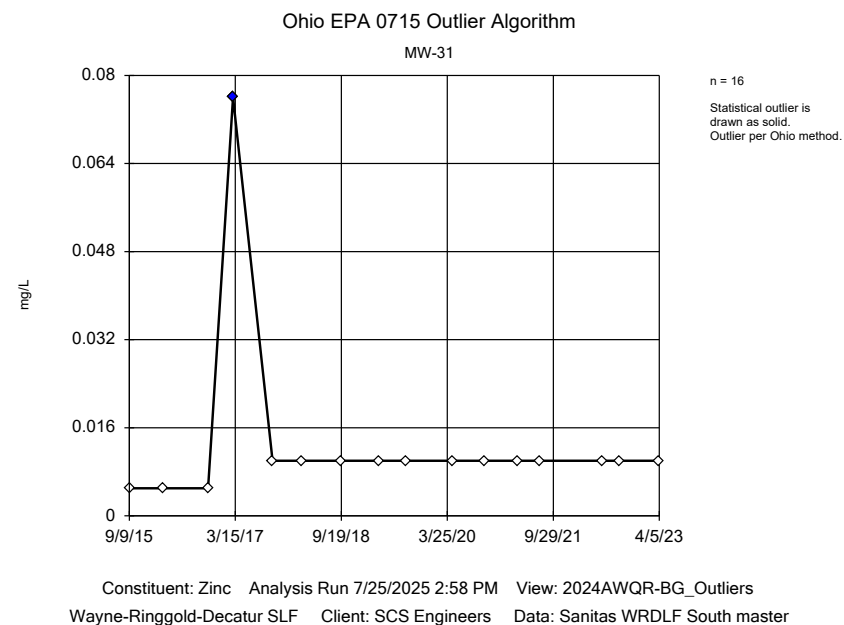
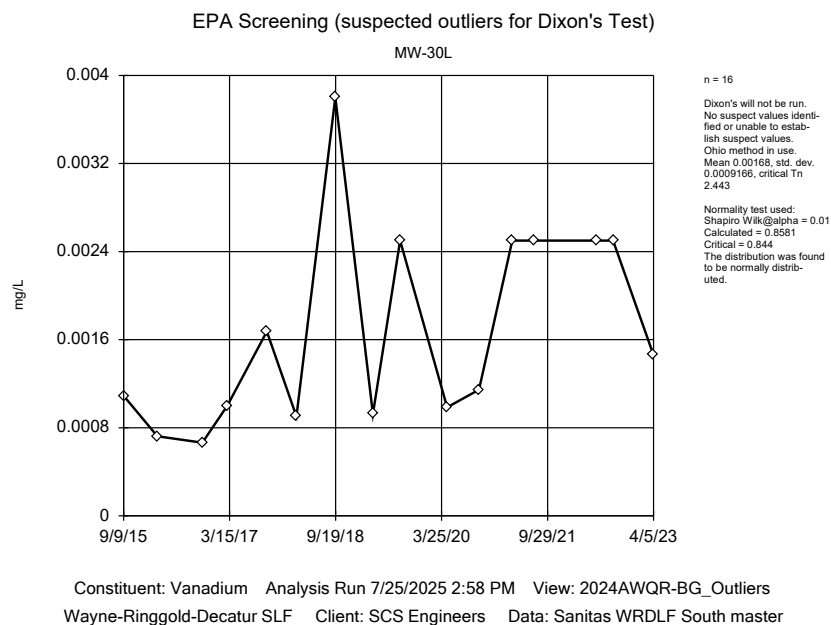
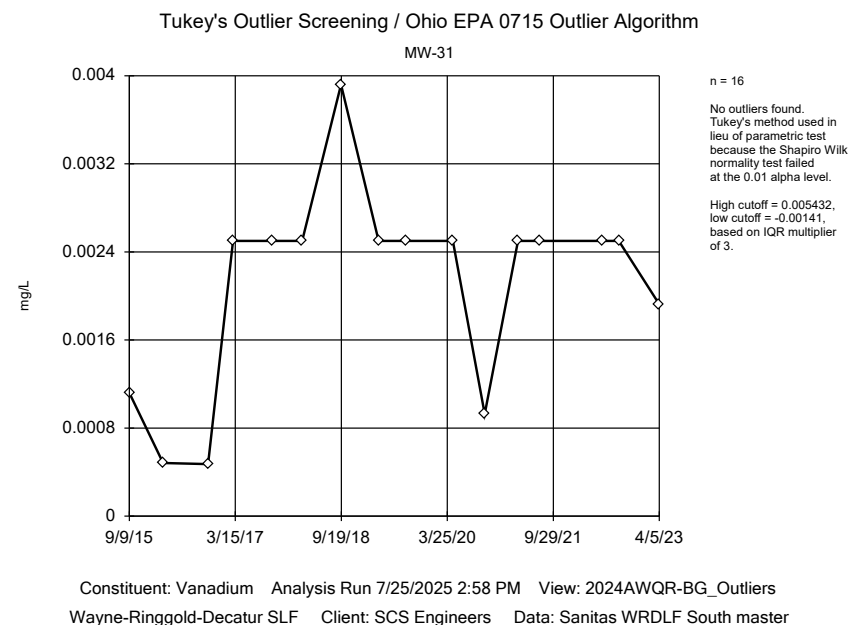
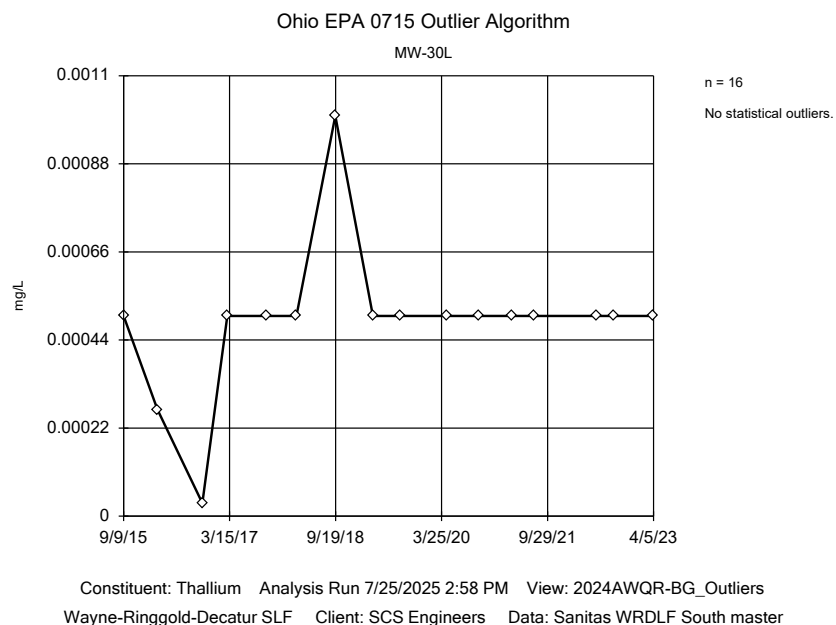


Constituent: Silver Analysis Run 7/25/2025 2:58 PM View: 2024AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Ohio EPA 0715 Outlier Algorithm

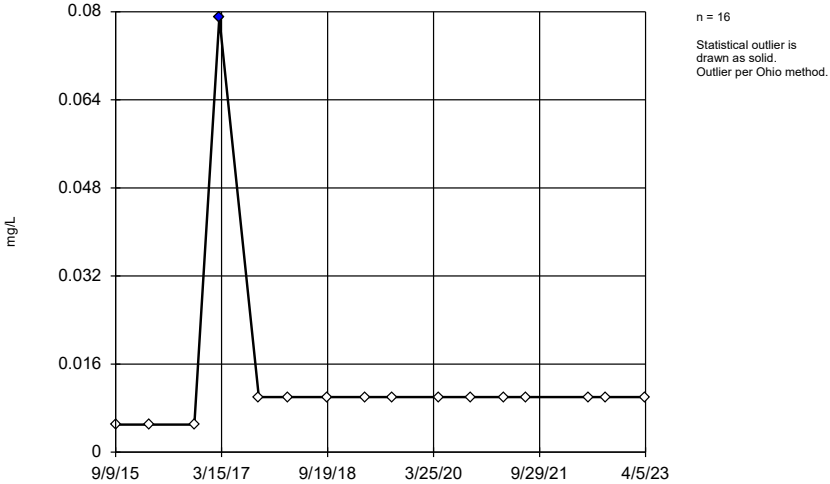


Constituent: Thallium Analysis Run 7/25/2025 2:58 PM View: 2024AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master



Ohio EPA 0715 Outlier Algorithm

MW-30L



Constituent: Zinc Analysis Run 7/25/2025 2:58 PM View: 2024AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

BG Outlier Analysis

Wayne-Ringgold-Decatur SLF

Client: SCS Engineers

Data: Sanitas WRDLF South master

Printed 7/25/2025, 3:02 PM

<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Arsenic (mg/L)	MW-31	No	n/a	n/a	OH	NaN	16	0.001038	0.0001525	n/a	n/a
Arsenic (mg/L)	MW-30L	No	n/a	n/a	OH	NaN	16	0.00104	0.0001897	n/a	n/a
Barium (mg/L)	MW-31	Yes	0.178	9/9/2015	Dixon/OH	0.01	16	0.1343	0.01617	normal	ShapiroWilk
Barium (mg/L)	MW-30L	No	n/a	n/a	EPA/OH	0.05	16	0.0977	0.0111	normal	ShapiroWilk
Cadmium (mg/L)	MW-31	No	n/a	n/a	EPA/OH	0.05	18	0.000121	0.0000558	ln(x)	ShapiroWilk
Cadmium (mg/L)	MW-30L	Yes	0.00025,0.00025,0.00025,0.00025	9/9/2015,2/27/2018,9/18/2018,4/2/2019	OH	NaN	16	0.0001149	0.00008508	n/a	n/a
Chromium (mg/L)	MW-31	No	n/a	n/a	OH	NaN	16	0.002529	0.0004703	n/a	n/a
Chromium (mg/L)	MW-30L	No	n/a	n/a	OH	NaN	16	0.002401	0.0007377	n/a	n/a
Cobalt (mg/L)	MW-31	No	n/a	n/a	NP (nrm)/OH	NaN	16	0.0002089	0.0001224	unknown	ShapiroWilk
Cobalt (mg/L)	MW-30L	Yes	0.0005,0.000461	9/18/2018,7/22/2021	NP (nrm)/OH	NaN	16	0.0002448	0.0001113	unknown	ShapiroWilk
Copper (mg/L)	MW-31	No	n/a	n/a	OH	NaN	16	0.002296	0.0005566	n/a	n/a
Copper (mg/L)	MW-30L	No	n/a	n/a	OH	NaN	16	0.002381	0.000717	n/a	n/a
Lead (mg/L)	MW-31	No	n/a	n/a	OH	NaN	16	0.0002534	0.0000135	n/a	n/a
Lead (mg/L)	MW-30L	No	n/a	n/a	OH	NaN	16	0.0002528	0.000011	n/a	n/a
Nickel (mg/L)	MW-31	No	n/a	n/a	EPA/OH	0.05	16	0.002321	0.0004317	normal	ShapiroWilk
Nickel (mg/L)	MW-30L	No	n/a	n/a	OH	NaN	16	0.002199	0.0005923	n/a	n/a
Selenium (mg/L)	MW-30L	No	n/a	n/a	EPA/OH	0.05	10	0.004429	0.0004104	normal	ShapiroWilk
Silver (mg/L)	MW-31	No	n/a	n/a	OH	NaN	16	0.0004528	0.0001055	n/a	n/a
Silver (mg/L)	MW-30L	No	n/a	n/a	OH	NaN	16	0.0004623	0.0001049	n/a	n/a
Thallium (mg/L)	MW-31	No	n/a	n/a	OH	NaN	16	0.0004478	0.0002311	n/a	n/a
Thallium (mg/L)	MW-30L	No	n/a	n/a	OH	NaN	16	0.0004874	0.0001863	n/a	n/a
Vanadium (mg/L)	MW-31	No	n/a	n/a	NP (nrm)/OH	NaN	16	0.002116	0.0009141	unknown	ShapiroWilk
Vanadium (mg/L)	MW-30L	No	n/a	n/a	EPA/OH	0.05	16	0.00168	0.0009166	normal	ShapiroWilk
Zinc (mg/L)	MW-31	Yes	0.076	3/3/2017	OH	NaN	16	0.01319	0.01687	n/a	n/a
Zinc (mg/L)	MW-30L	Yes	0.0789	3/3/2017	OH	NaN	16	0.01337	0.01759	n/a	n/a

MW-30L Intra Prediction Limit

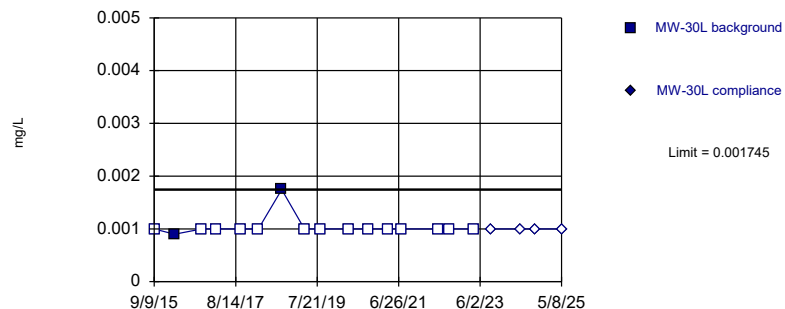
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master Printed 7/25/2025, 4:01 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Wells</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Arsenic (mg/L)	MW-30L	0.001745	n/a	5/8/2025	0.001ND	No	16	n/a	n/a	n/a	87.5	n/a	n/a	0.006456	NP Intra (NDs) 1 of 2
Barium (mg/L)	MW-30L	0.122	n/a	5/8/2025	0.0775	No	16	n/a	0.0977	0.0111	0	None	No	0.00135	Param Intra 1 of 2
Cadmium (mg/L)	MW-30L	0.00025	n/a	5/8/2025	0.0001ND	No	16	n/a	n/a	n/a	75	n/a	n/a	0.006456	NP Intra (NDs) 1 of 2
Chromium (mg/L)	MW-30L	0.0039	n/a	5/8/2025	0.0025ND	No	16	n/a	n/a	n/a	75	n/a	n/a	0.006456	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	MW-30L	0.0005	n/a	5/8/2025	0.00025ND	No	16	n/a	n/a	n/a	68.75	n/a	n/a	0.006456	NP Intra (NDs) 1 of 2
Copper (mg/L)	MW-30L	0.00398	n/a	5/8/2025	0.0025ND	No	16	n/a	n/a	n/a	81.25	n/a	n/a	0.006456	NP Intra (NDs) 1 of 2
Lead (mg/L)	MW-30L	0.000294	n/a	5/8/2025	0.00025ND	No	16	n/a	n/a	n/a	93.75	n/a	n/a	0.006456	NP Intra (NDs) 1 of 2
Nickel (mg/L)	MW-30L	0.0025	n/a	5/8/2025	0.0025ND	No	16	n/a	n/a	n/a	75	n/a	n/a	0.006456	NP Intra (NDs) 1 of 2
Selenium (mg/L)	MW-30L	0.005465	n/a	5/8/2025	0.005495	Yes	10	n/a	0.004429	0.0004104	0	None	No	0.00135	Param Intra 1 of 2
Silver (mg/L)	MW-30L	0.0005	n/a	5/8/2025	0.0005ND	No	16	n/a	n/a	n/a	93.75	n/a	n/a	0.006456	NP Intra (NDs) 1 of 2
Thallium (mg/L)	MW-30L	0.001	n/a	5/8/2025	0.0005ND	No	16	n/a	n/a	n/a	87.5	n/a	n/a	0.006456	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	MW-30L	0.003141	n/a	5/8/2025	0.0025ND	No	16	n/a	0.001307	0.000837	31.25	Kaplan-Meier	No	0.00135	Param Intra 1 of 2
Zinc (mg/L)	MW-30L	0.0789	n/a	5/8/2025	0.01ND	No	16	n/a	n/a	n/a	93.75	n/a	n/a	0.006456	NP Intra (NDs) 1 of 2

Within Limit

Prediction Limit

Intrawell Non-parametric



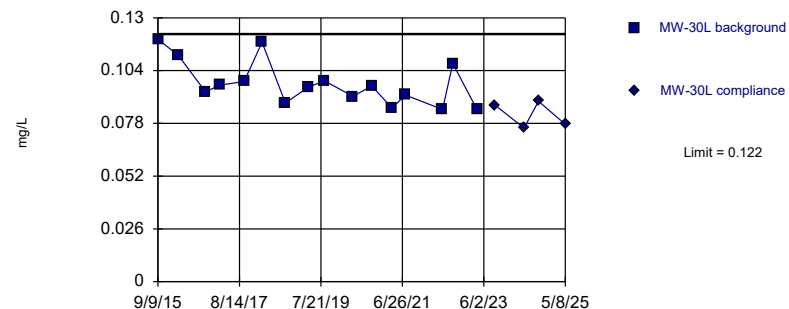
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.01287. Individual comparison alpha = 0.006456 (1 of 2).

Constituent: Arsenic Analysis Run 7/25/2025 3:59 PM View: 2025_SSN-MW-30L_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit

Intrawell Parametric



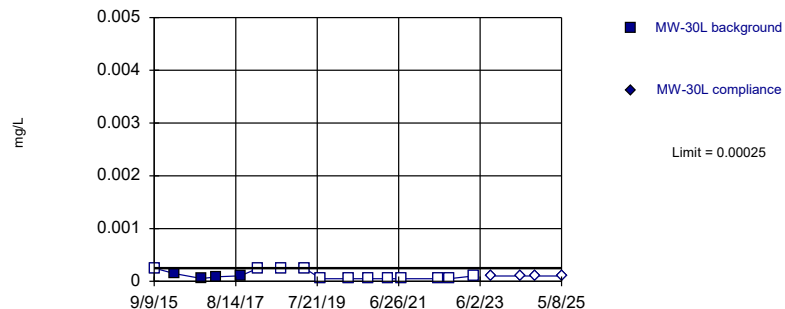
Background Data Summary: Mean=0.0977, Std. Dev.=0.0111, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.901, critical = 0.844. Kappa = 2.192 (c=13, w=3, 1 of 2, event alpha = 0.05132). Report alpha = 0.00135.

Constituent: Barium Analysis Run 7/25/2025 3:59 PM View: 2025_SSN-MW-30L_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit

Intrawell Non-parametric



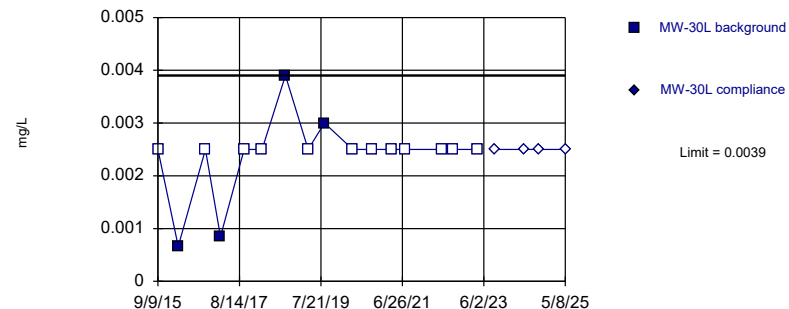
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 75% NDs. Well-constituent pair annual alpha = 0.01287. Individual comparison alpha = 0.006456 (1 of 2).

Constituent: Cadmium Analysis Run 7/25/2025 3:59 PM View: 2025_SSN-MW-30L_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit

Intrawell Non-parametric



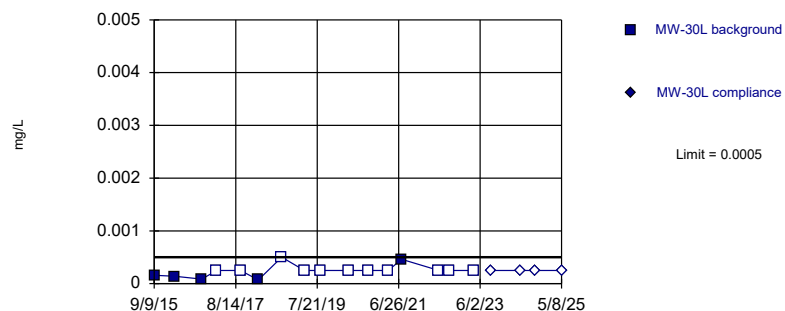
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 75% NDs. Well-constituent pair annual alpha = 0.01287. Individual comparison alpha = 0.006456 (1 of 2).

Constituent: Chromium Analysis Run 7/25/2025 3:59 PM View: 2025_SSN-MW-30L_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit

Intrawell Non-parametric



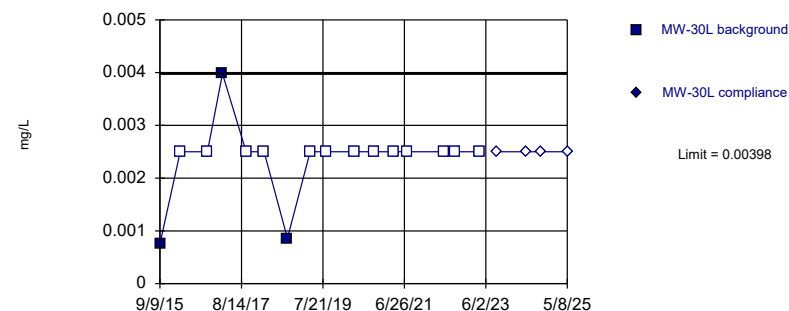
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 68.75% NDs. Well-constituent pair annual alpha = 0.01287. Individual comparison alpha = 0.006456 (1 of 2).

Constituent: Cobalt Analysis Run 7/25/2025 3:59 PM View: 2025_SSN-MW-30L_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit

Intrawell Non-parametric



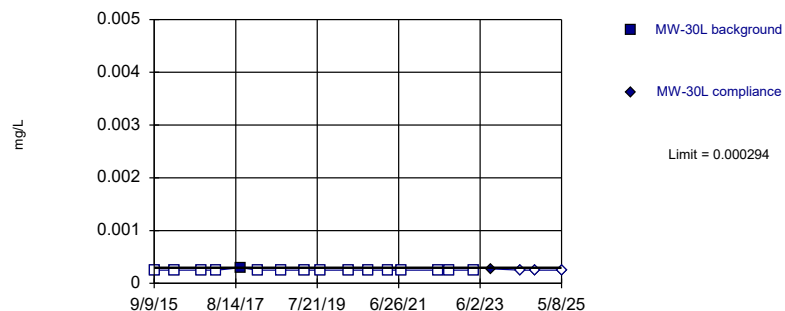
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 81.25% NDs. Well-constituent pair annual alpha = 0.01287. Individual comparison alpha = 0.006456 (1 of 2).

Constituent: Copper Analysis Run 7/25/2025 3:59 PM View: 2025_SSN-MW-30L_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit

Intrawell Non-parametric



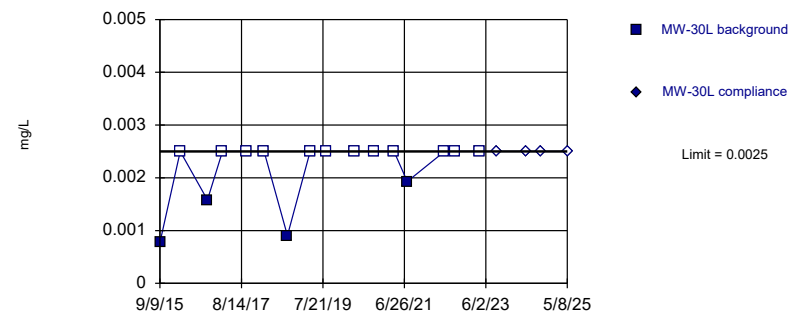
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.01287. Individual comparison alpha = 0.006456 (1 of 2).

Constituent: Lead Analysis Run 7/25/2025 3:59 PM View: 2025_SSN-MW-30L_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit

Intrawell Non-parametric



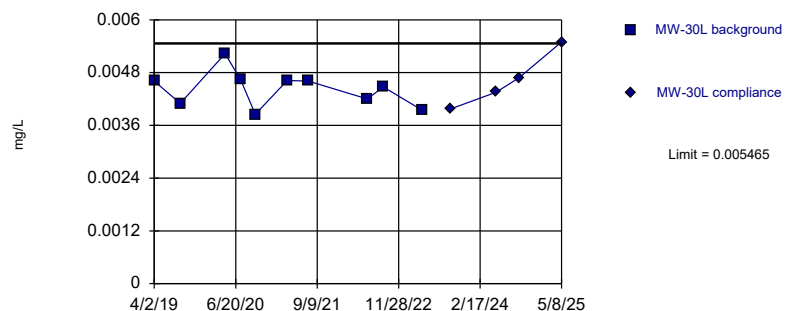
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 75% NDs. Well-constituent pair annual alpha = 0.01287. Individual comparison alpha = 0.006456 (1 of 2).

Constituent: Nickel Analysis Run 7/25/2025 3:59 PM View: 2025_SSN-MW-30L_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Exceeds Limit

Prediction Limit

Intrawell Parametric



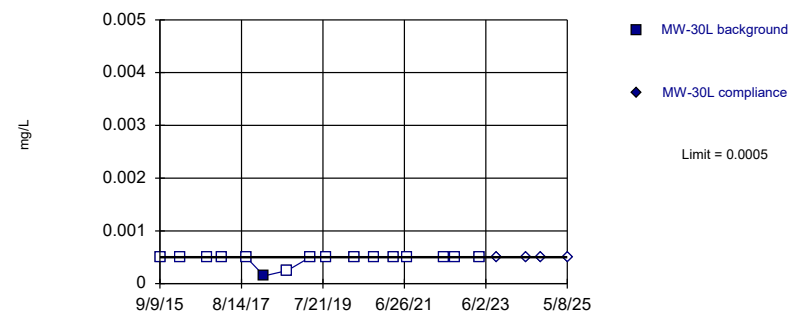
Background Data Summary: Mean=0.004429, Std. Dev.=0.0004104, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.928, critical = 0.781. Kappa = 2.526 (c=13, w=3, 1 of 2, event alpha = 0.05132). Report alpha = 0.00135.

Constituent: Selenium Analysis Run 7/25/2025 3:59 PM View: 2025_SSN-MW-30L_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit

Intrawell Non-parametric



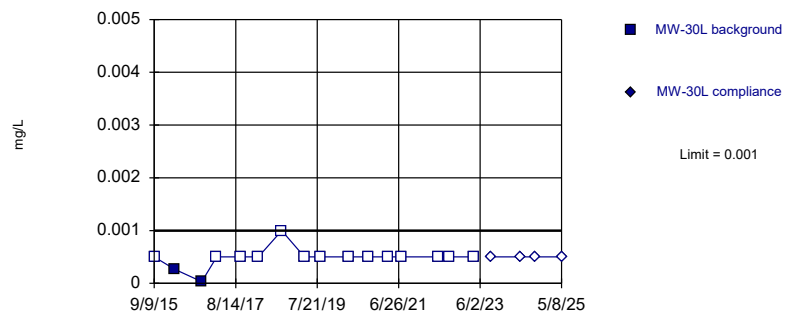
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.01287. Individual comparison alpha = 0.006456 (1 of 2).

Constituent: Silver Analysis Run 7/25/2025 3:59 PM View: 2025_SSN-MW-30L_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit

Intrawell Non-parametric



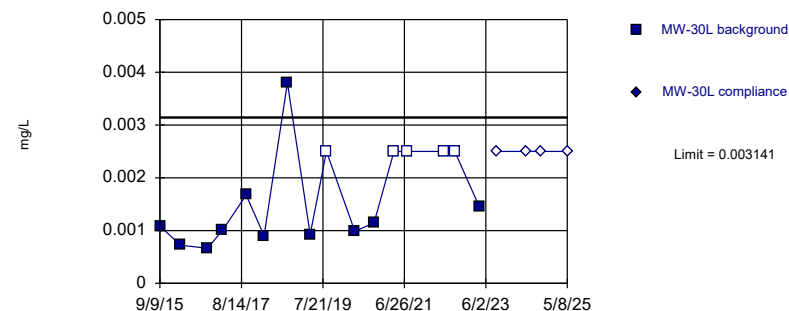
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.01287. Individual comparison alpha = 0.006456 (1 of 2).

Constituent: Thallium Analysis Run 7/25/2025 3:59 PM View: 2025_SSN-MW-30L_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit

Intrawell Parametric

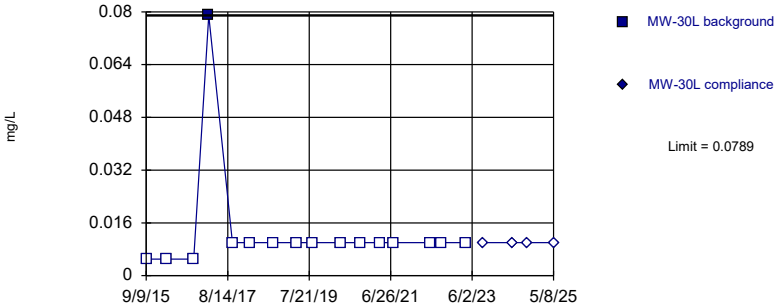


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.001307, Std. Dev.=0.000837, n=16, 31.25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8581, critical = 0.844. Kappa = 2.192 (c=13, w=3, 1 of 2, event alpha = 0.05132). Report alpha = 0.00135.

Constituent: Vanadium Analysis Run 7/25/2025 3:59 PM View: 2025_SSN-MW-30L_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.01287. Individual comparison alpha = 0.006456 (1 of 2).

MW-31 Intra Prediction Limit

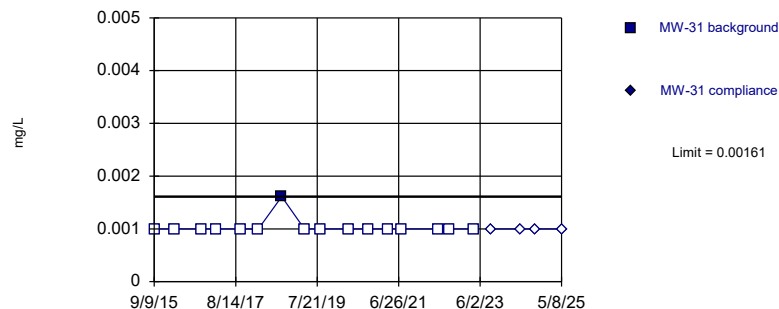
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master Printed 7/25/2025, 3:56 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Wells</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Arsenic (mg/L)	MW-31	0.00161	n/a	5/8/2025	0.001ND	No	16	n/a	n/a	n/a	93.75	n/a	n/a	0.006456	NP Intra (NDs) 1 of 2
Barium (mg/L)	MW-31	0.1693	n/a	5/8/2025	0.131	No	16	n/a	0.1343	0.01617	0	None	No	0.001462	Param Intra 1 of 2
Cadmium (mg/L)	MW-31	0.0002479	n/a	5/8/2025	0.000101J	No	18	n/a	0.01076	0.002351	11.11	None	sqrt(x)	0.001462	Param Intra 1 of 2
Chromium (mg/L)	MW-31	0.004	n/a	5/8/2025	0.0025ND	No	16	n/a	n/a	n/a	87.5	n/a	n/a	0.006456	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	MW-31	0.0005	n/a	5/8/2025	0.00025ND	No	16	n/a	n/a	n/a	56.25	n/a	n/a	0.006456	NP Intra (NDs) 1 of 2
Copper (mg/L)	MW-31	0.0025	n/a	5/8/2025	0.0025ND	No	16	n/a	n/a	n/a	87.5	n/a	n/a	0.006456	NP Intra (NDs) 1 of 2
Lead (mg/L)	MW-31	0.000304	n/a	5/8/2025	0.00025ND	No	16	n/a	n/a	n/a	93.75	n/a	n/a	0.006456	NP Intra (NDs) 1 of 2
Nickel (mg/L)	MW-31	0.003263	n/a	5/8/2025	0.0025ND	No	16	n/a	0.002279	0.0004538	18.75	Kaplan-Meier	No	0.001462	Param Intra 1 of 2
Silver (mg/L)	MW-31	0.0005	n/a	5/8/2025	0.0005ND	No	16	n/a	n/a	n/a	87.5	n/a	n/a	0.006456	NP Intra (NDs) 1 of 2
Thallium (mg/L)	MW-31	0.001	n/a	5/8/2025	0.0005ND	No	16	n/a	n/a	n/a	81.25	n/a	n/a	0.006456	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	MW-31	0.00392	n/a	5/8/2025	0.0025ND	No	16	n/a	n/a	n/a	62.5	n/a	n/a	0.006456	NP Intra (NDs) 1 of 2
Zinc (mg/L)	MW-31	0.076	n/a	5/8/2025	0.01ND	No	16	n/a	n/a	n/a	93.75	n/a	n/a	0.006456	NP Intra (NDs) 1 of 2

Within Limit

Prediction Limit

Intrawell Non-parametric



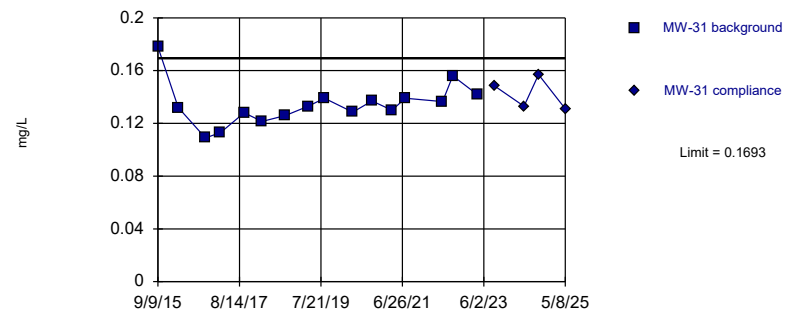
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.01287. Individual comparison alpha = 0.006456 (1 of 2).

Constituent: Arsenic Analysis Run 7/25/2025 3:56 PM View: 2025_SSN-MW-31_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit

Intrawell Parametric



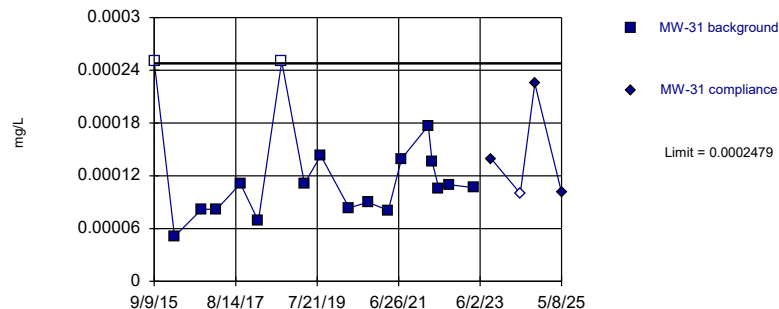
Background Data Summary: Mean=0.1343, Std. Dev.=0.01617, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.905, critical = 0.844. Kappa = 2.168 (c=12, w=3, 1 of 2, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Barium Analysis Run 7/25/2025 3:56 PM View: 2025_SSN-MW-31_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit

Intrawell Parametric



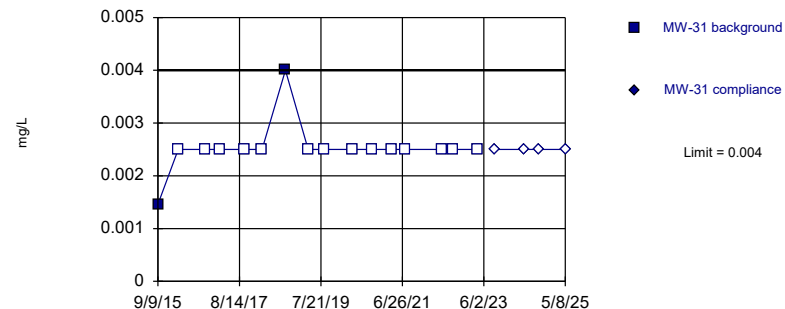
Background Data Summary (based on square root transformation): Mean=0.01076, Std. Dev.=0.002351, n=18, 11.11% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9054, critical = 0.858. Kappa = 2.121 (c=12, w=3, 1 of 2, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Cadmium Analysis Run 7/25/2025 3:56 PM View: 2025_SSN-MW-31_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit

Intrawell Non-parametric



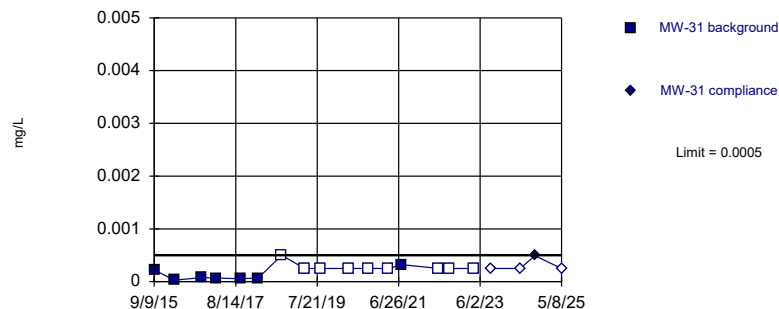
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.01287. Individual comparison alpha = 0.006456 (1 of 2).

Constituent: Chromium Analysis Run 7/25/2025 3:56 PM View: 2025_SSN-MW-31_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit

Intrawell Non-parametric



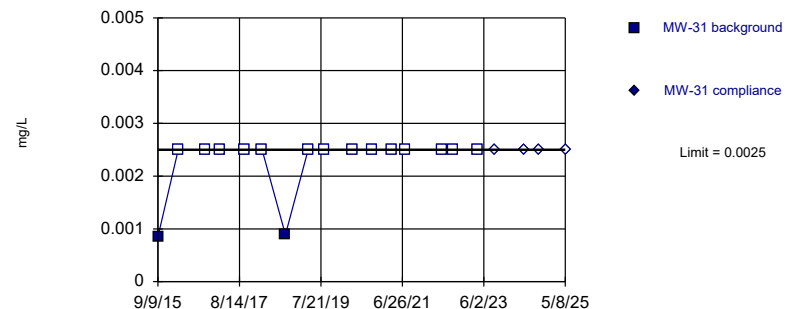
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 56.25% NDs. Well-constituent pair annual alpha = 0.01287. Individual comparison alpha = 0.006456 (1 of 2).

Constituent: Cobalt Analysis Run 7/25/2025 3:56 PM View: 2025_SSN-MW-31_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit

Intrawell Non-parametric



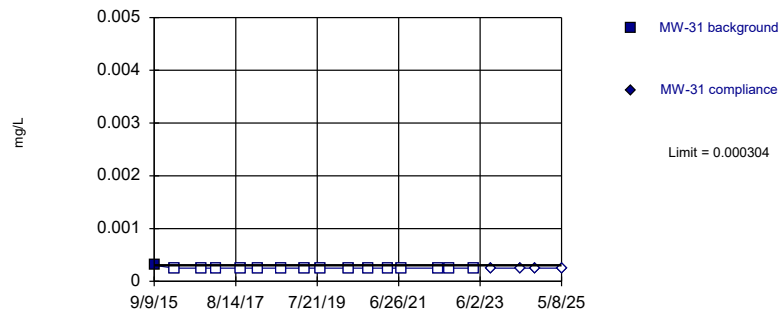
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.01287. Individual comparison alpha = 0.006456 (1 of 2).

Constituent: Copper Analysis Run 7/25/2025 3:56 PM View: 2025_SSN-MW-31_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit

Intrawell Non-parametric



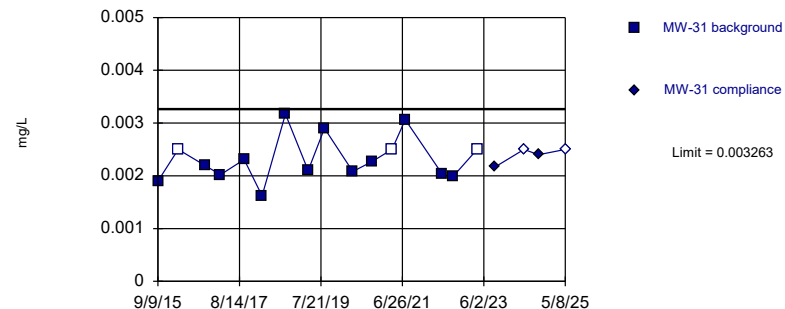
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.01287. Individual comparison alpha = 0.006456 (1 of 2).

Constituent: Lead Analysis Run 7/25/2025 3:56 PM View: 2025_SSN-MW-31_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit

Intrawell Parametric



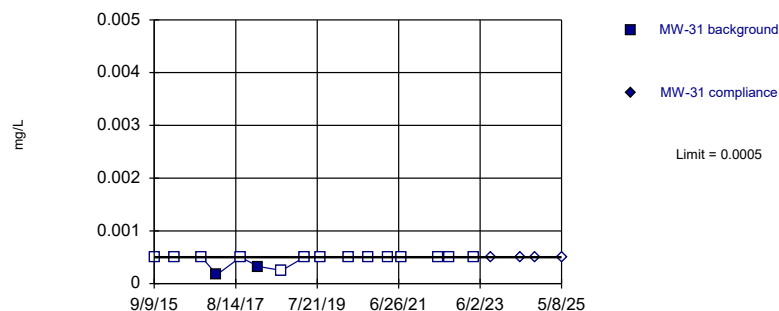
Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.002279, Std. Dev.=0.0004538, n=16, 18.75% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9352, critical = 0.844. Kappa = 2.168 (c=12, w=3, 1 of 2, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Nickel Analysis Run 7/25/2025 3:56 PM View: 2025_SSN-MW-31_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit

Intrawell Non-parametric



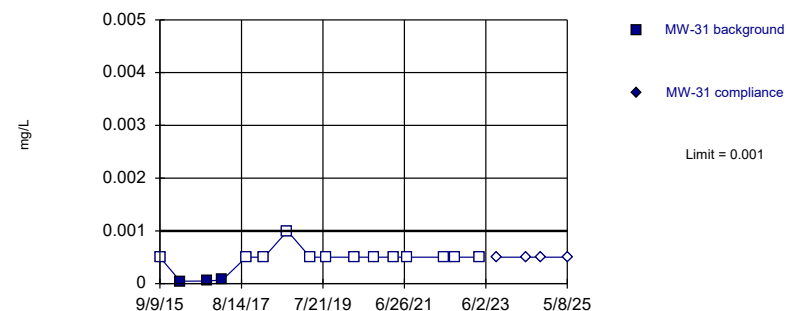
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.01287. Individual comparison alpha = 0.006456 (1 of 2).

Constituent: Silver Analysis Run 7/25/2025 3:56 PM View: 2025_SSN-MW-31_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit

Intrawell Non-parametric



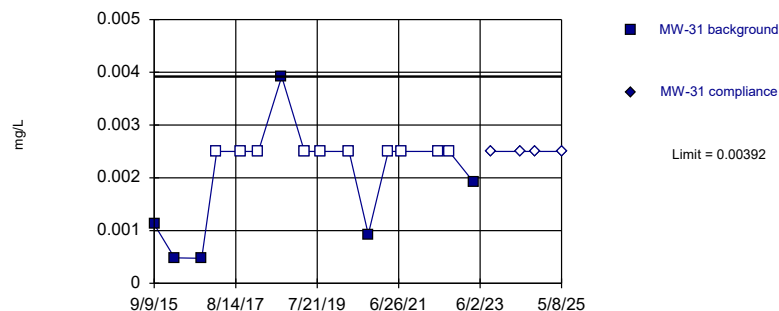
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 81.25% NDs. Well-constituent pair annual alpha = 0.01287. Individual comparison alpha = 0.006456 (1 of 2).

Constituent: Thallium Analysis Run 7/25/2025 3:56 PM View: 2025_SSN-MW-31_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit

Intrawell Non-parametric



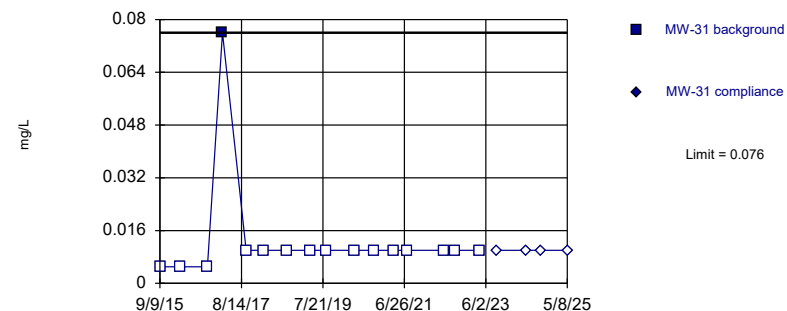
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.01287. Individual comparison alpha = 0.006456 (1 of 2).

Constituent: Vanadium Analysis Run 7/25/2025 3:56 PM View: 2025_SSN-MW-31_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit

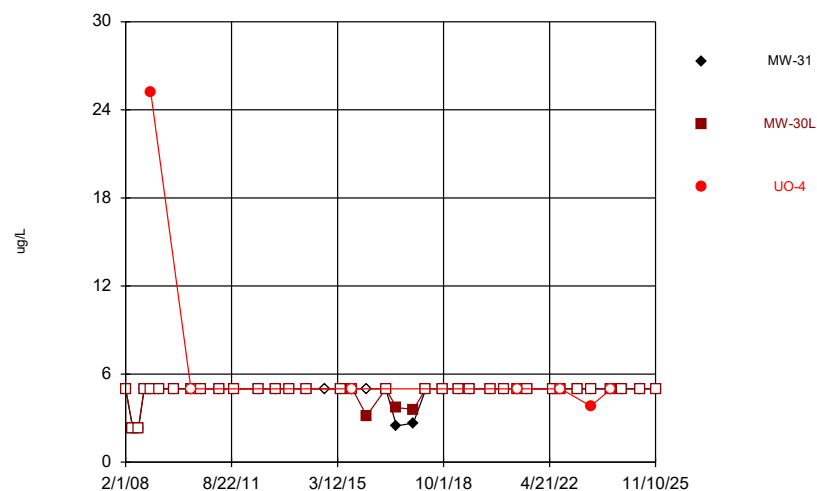
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.01287. Individual comparison alpha = 0.006456 (1 of 2).

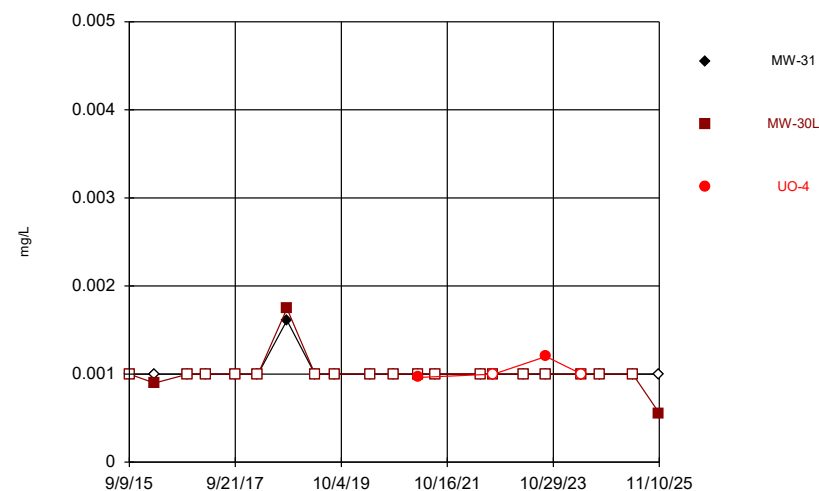
Constituent: Zinc Analysis Run 7/25/2025 3:56 PM View: 2025_SSN-MW-31_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Time Series



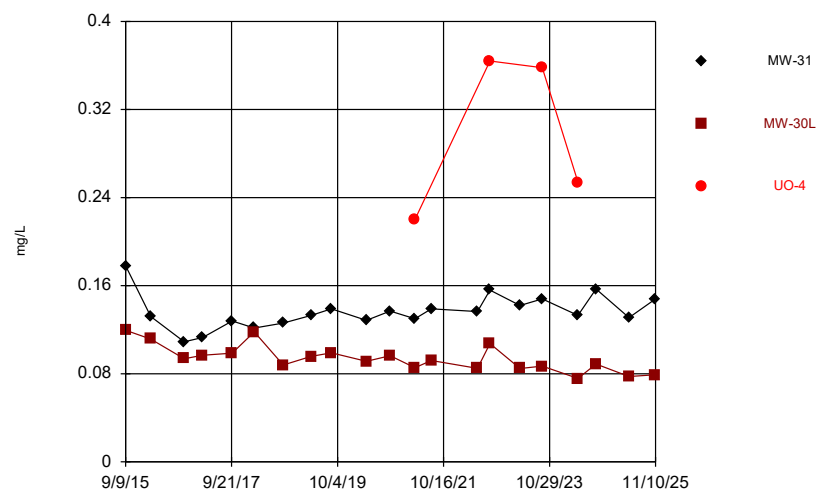
Constituent: Acetone Analysis Run 12/4/2025 11:46 AM View: 2025_AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Time Series



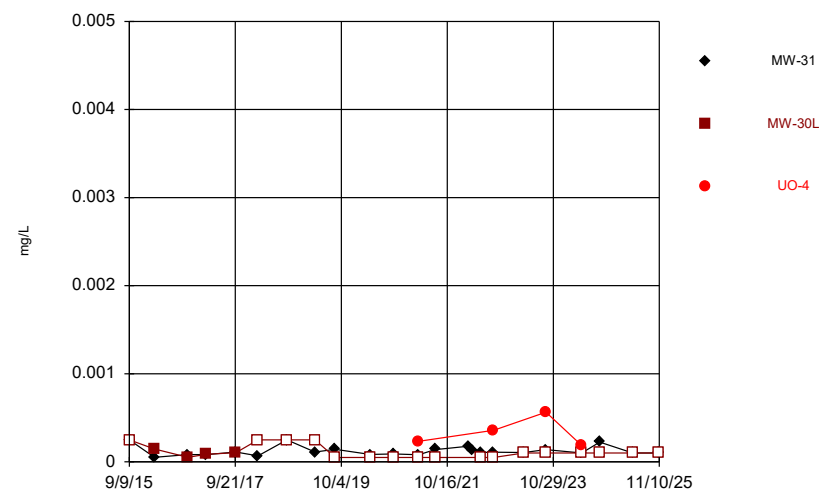
Constituent: Arsenic Analysis Run 12/4/2025 11:46 AM View: 2025_AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Time Series



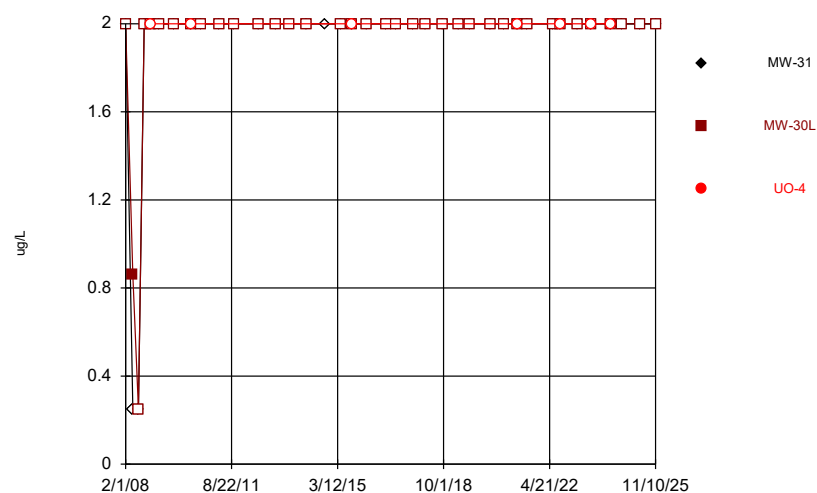
Constituent: Barium Analysis Run 12/4/2025 11:46 AM View: 2025_AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Time Series



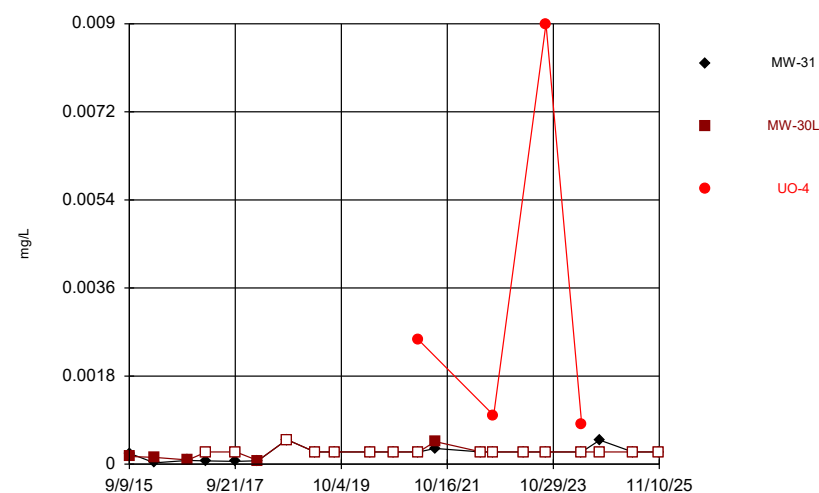
Constituent: Cadmium Analysis Run 12/4/2025 11:46 AM View: 2025_AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Time Series



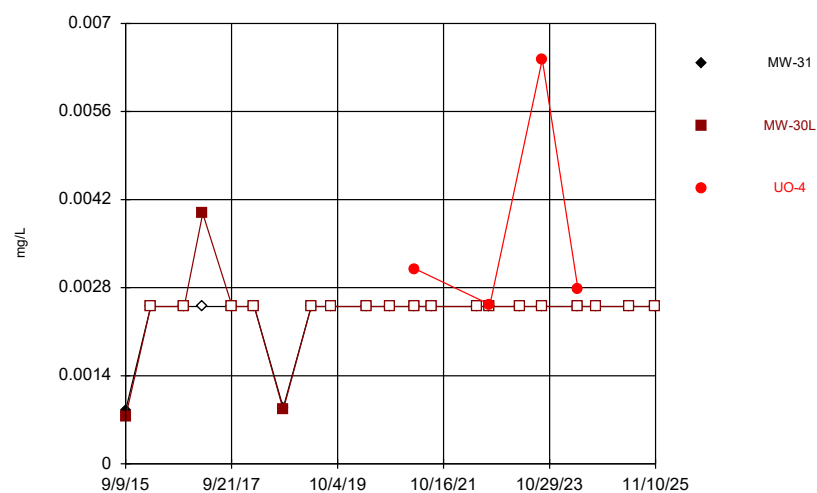
Constituent: Chloroethane Analysis Run 12/4/2025 11:46 AM View: 2025_AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Time Series



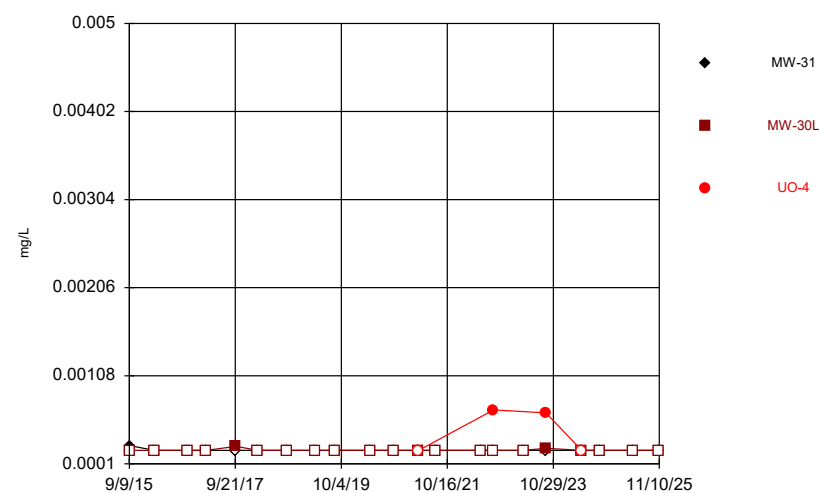
Constituent: Cobalt Analysis Run 12/4/2025 11:46 AM View: 2025_AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Time Series



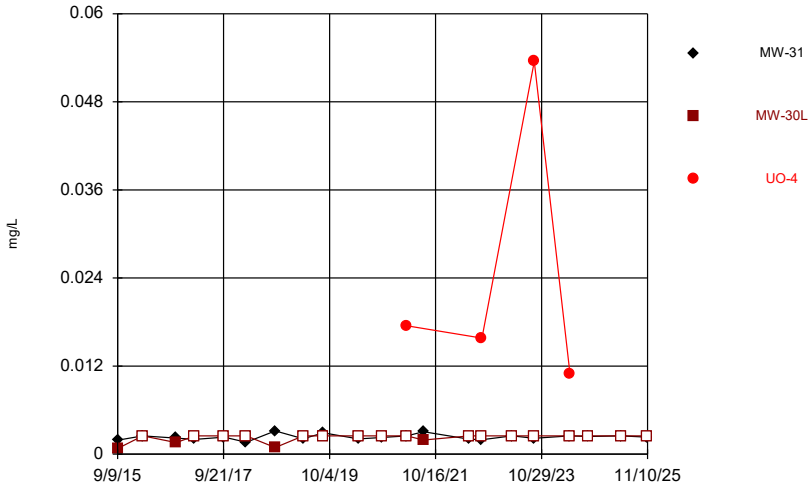
Constituent: Copper Analysis Run 12/4/2025 11:46 AM View: 2025_AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Time Series

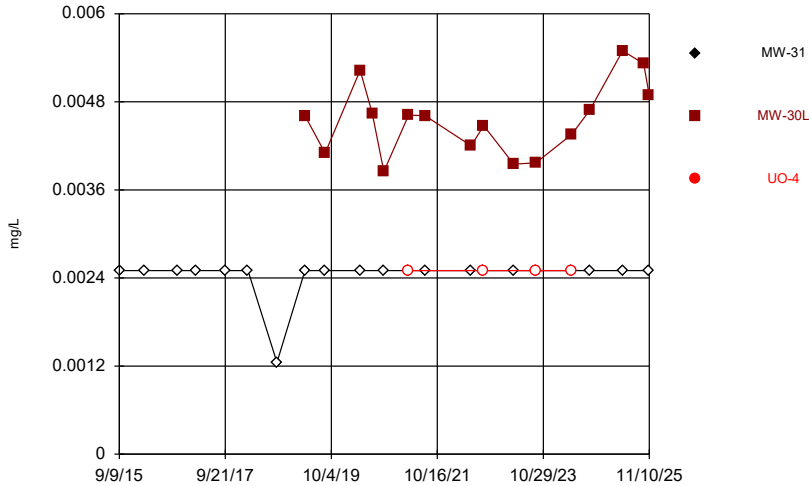


Constituent: Lead Analysis Run 12/4/2025 11:46 AM View: 2025_AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

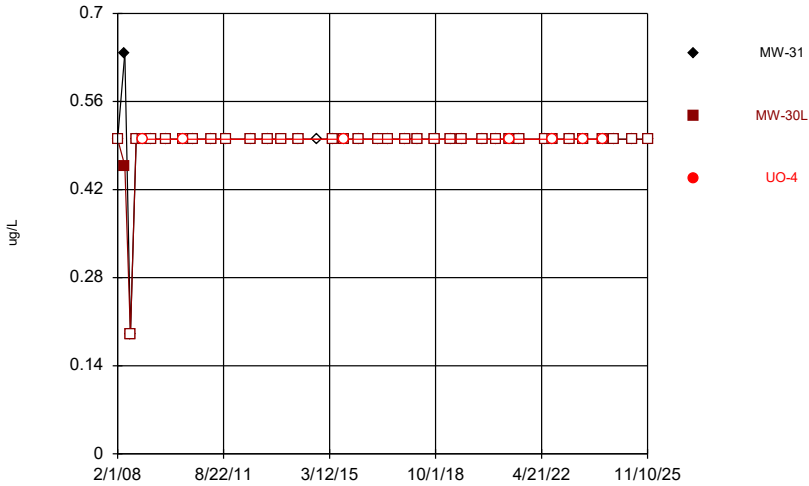
Time Series



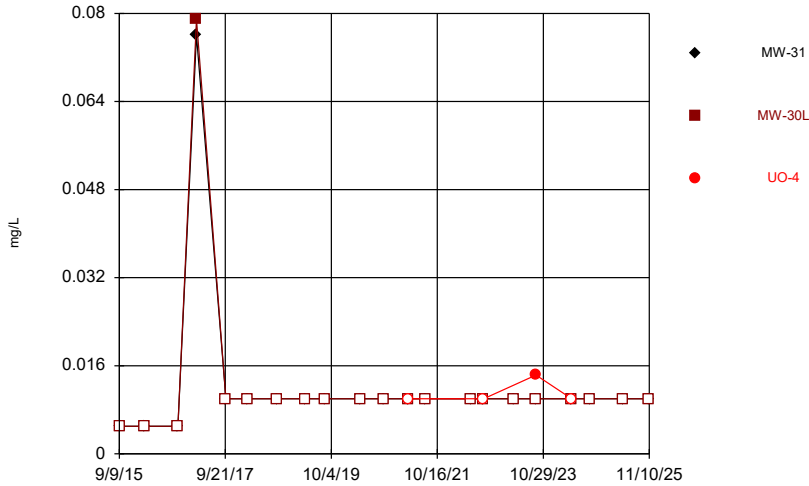
Time Series



Time Series



Time Series



BG Outlier Analysis

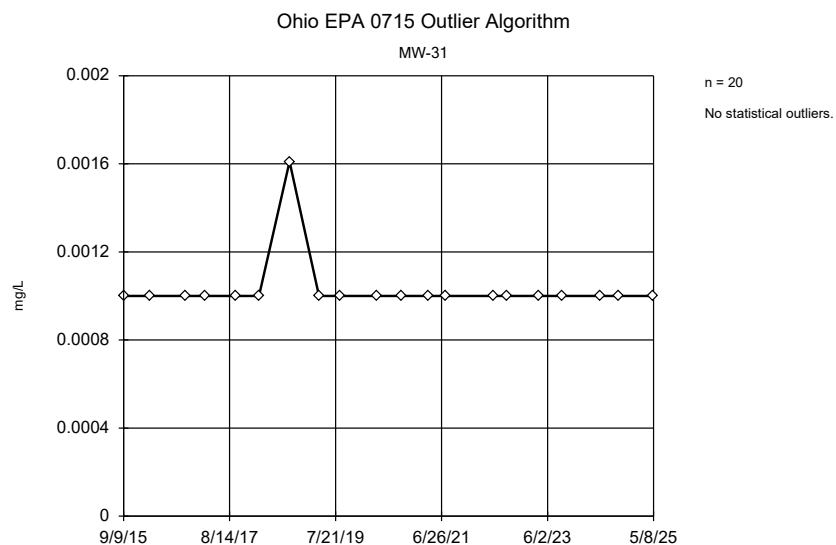
Wayne-Ringgold-Decatur SLF

Client: SCS Engineers

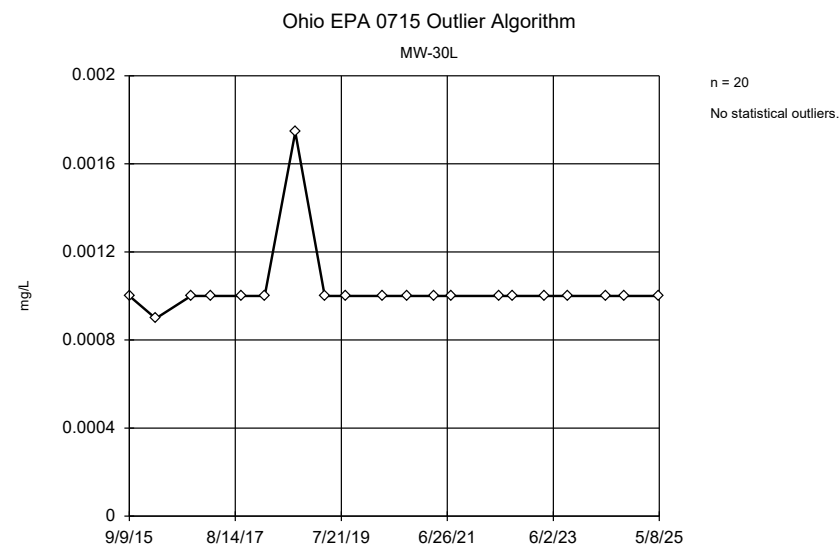
Data: Sanitas WRDLF South master

Printed 12/10/2025, 3:46 PM

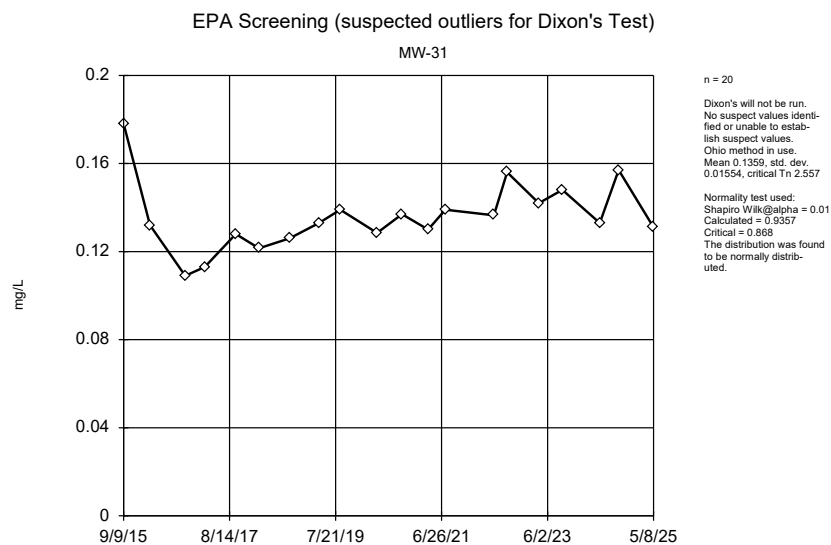
<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Arsenic (mg/L)	MW-31	No	n/a	n/a	OH	NaN	20	0.001031	0.0001364	n/a	n/a
Arsenic (mg/L)	MW-30L	No	n/a	n/a	OH	NaN	20	0.001032	0.0001693	n/a	n/a
Barium (mg/L)	MW-31	No	n/a	n/a	EPA/OH	0.05	20	0.1359	0.01554	normal	ShapiroWilk
Barium (mg/L)	MW-30L	No	n/a	n/a	EPA/OH	0.05	20	0.09461	0.01202	normal	ShapiroWilk
Cadmium (mg/L)	MW-31	No	n/a	n/a	EPA/OH	0.05	22	0.0001247	0.00005547	ln(x)	ShapiroWilk
Cadmium (mg/L)	MW-30L	No	n/a	n/a	OH	NaN	20	0.000112	0.00007585	n/a	n/a
Chromium (mg/L)	MW-31	No	n/a	n/a	OH	NaN	20	0.002523	0.0004181	n/a	n/a
Chromium (mg/L)	MW-30L	No	n/a	n/a	OH	NaN	20	0.00242	0.0006567	n/a	n/a
Cobalt (mg/L)	MW-31	No	n/a	n/a	NP (nrm)/OH	NaN	20	0.0002293	0.0001261	unknown	ShapiroWilk
Cobalt (mg/L)	MW-30L	No	n/a	n/a	OH	NaN	20	0.0002458	0.00009895	n/a	n/a
Copper (mg/L)	MW-31	No	n/a	n/a	OH	NaN	20	0.002337	0.0005016	n/a	n/a
Copper (mg/L)	MW-30L	No	n/a	n/a	OH	NaN	20	0.002405	0.0006389	n/a	n/a
Lead (mg/L)	MW-31	No	n/a	n/a	OH	NaN	20	0.0002527	0.00001207	n/a	n/a
Lead (mg/L)	MW-30L	No	n/a	n/a	OH	NaN	20	0.0002534	0.00001096	n/a	n/a
Nickel (mg/L)	MW-31	No	n/a	n/a	EPA/OH	0.05	20	0.002335	0.0003897	normal	ShapiroWilk
Nickel (mg/L)	MW-30L	No	n/a	n/a	OH	NaN	20	0.002259	0.0005406	n/a	n/a
Selenium (mg/L)	MW-30L	No	n/a	n/a	EPA/OH	0.05	15	0.004541	0.0005029	normal	ShapiroWilk
Silver (mg/L)	MW-31	No	n/a	n/a	OH	NaN	20	0.0004622	0.00009569	n/a	n/a
Silver (mg/L)	MW-30L	No	n/a	n/a	OH	NaN	20	0.0004698	0.00009447	n/a	n/a
Thallium (mg/L)	MW-31	No	n/a	n/a	OH	NaN	20	0.0004583	0.0002064	n/a	n/a
Thallium (mg/L)	MW-30L	No	n/a	n/a	OH	NaN	20	0.00049	0.0001656	n/a	n/a
Vanadium (mg/L)	MW-31	Yes	0.00112,0.000483,0.000473,0.00392,0.000928	9/9/2015,3/3/2016,10/24/2016,9/18/201...	NP (nrm)/OH	NaN	20	0.002192	0.0008274	unknown	ShapiroWilk
Vanadium (mg/L)	MW-30L	No	n/a	n/a	NP (nrm)/OH	NaN	20	0.001844	0.0008813	unknown	ShapiroWilk
Zinc (mg/L)	MW-31	Yes	0.076	3/3/2017	OH	NaN	20	0.01255	0.01505	n/a	n/a
Zinc (mg/L)	MW-30L	Yes	0.0789	3/3/2017	OH	NaN	20	0.01269	0.01569	n/a	n/a



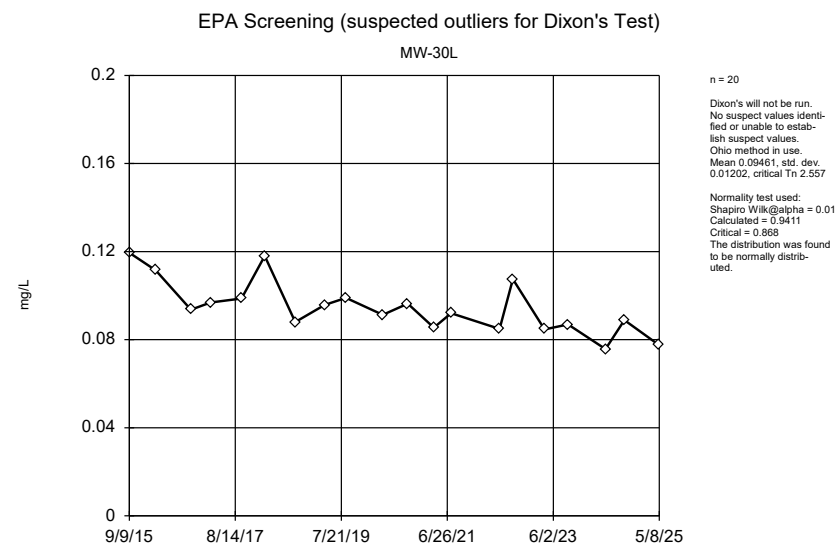
Constituent: Arsenic Analysis Run 12/10/2025 3:43 PM View: 2025_AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master



Constituent: Arsenic Analysis Run 12/10/2025 3:43 PM View: 2025_AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

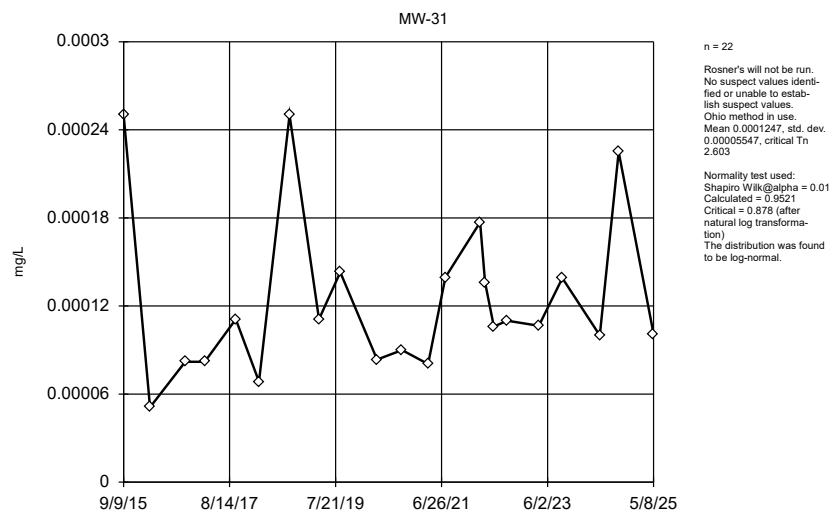


Constituent: Barium Analysis Run 12/10/2025 3:43 PM View: 2025_AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master



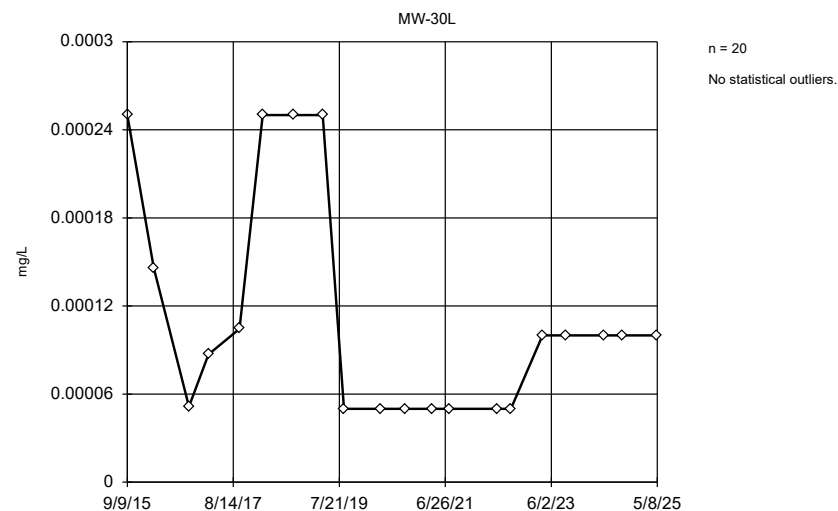
Constituent: Barium Analysis Run 12/10/2025 3:43 PM View: 2025_AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

EPA Screening (suspected outliers for Rosner's Test)



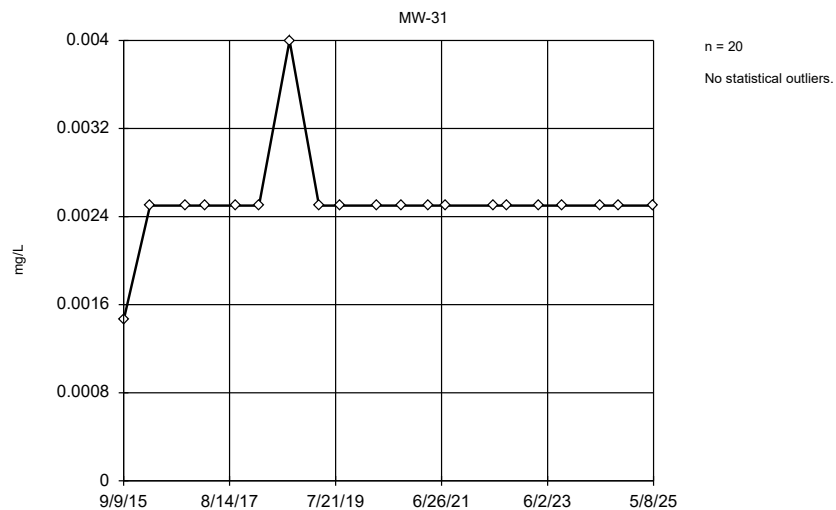
Constituent: Cadmium Analysis Run 12/10/2025 3:43 PM View: 2025_AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Ohio EPA 0715 Outlier Algorithm



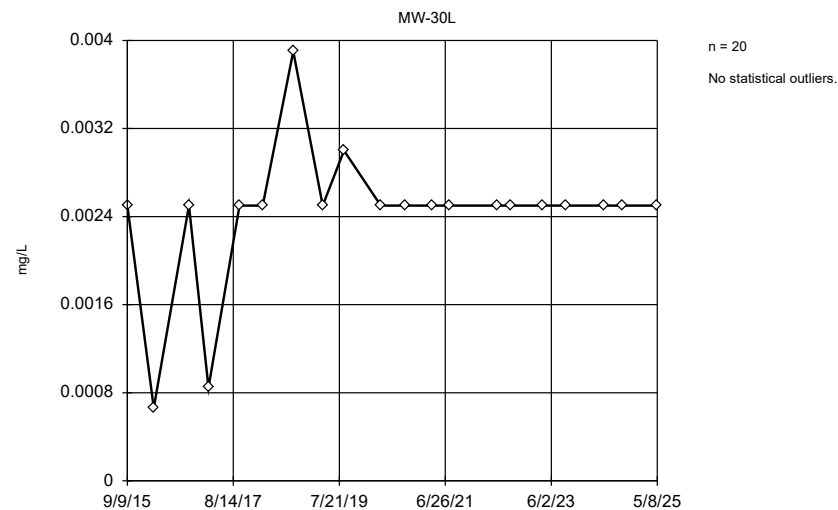
Constituent: Cadmium Analysis Run 12/10/2025 3:43 PM View: 2025_AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Ohio EPA 0715 Outlier Algorithm



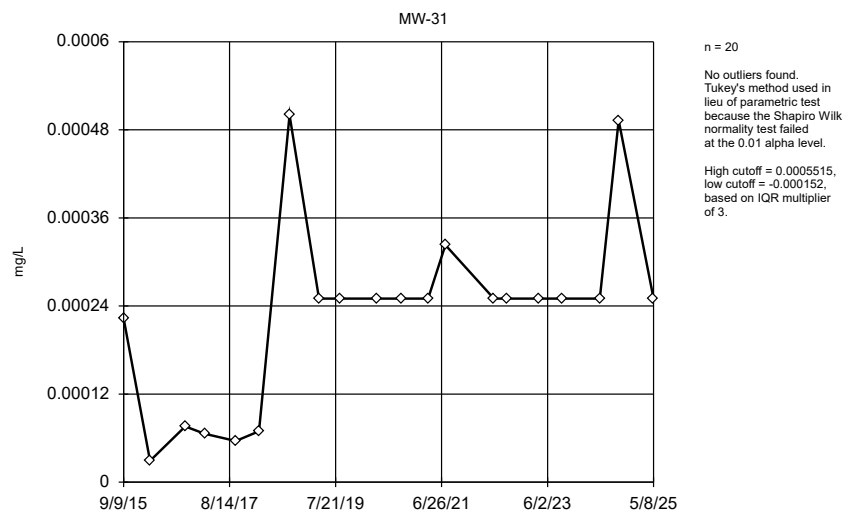
Constituent: Chromium Analysis Run 12/10/2025 3:43 PM View: 2025_AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Ohio EPA 0715 Outlier Algorithm



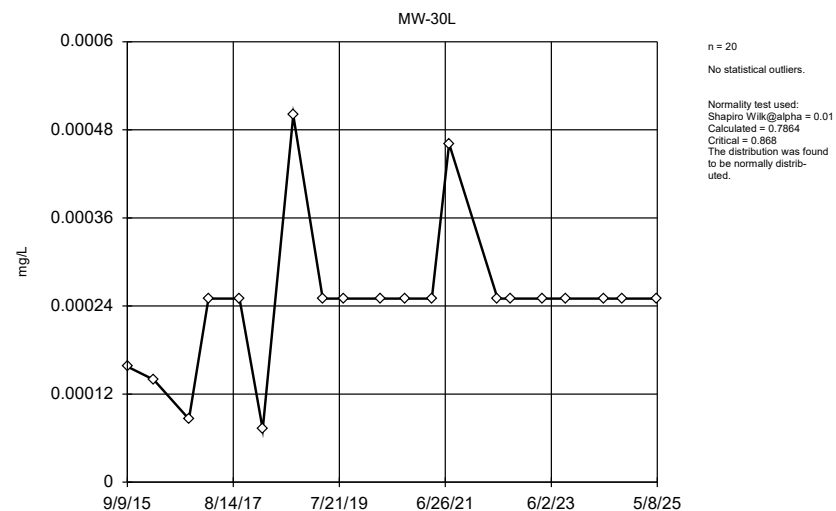
Constituent: Chromium Analysis Run 12/10/2025 3:44 PM View: 2025_AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm



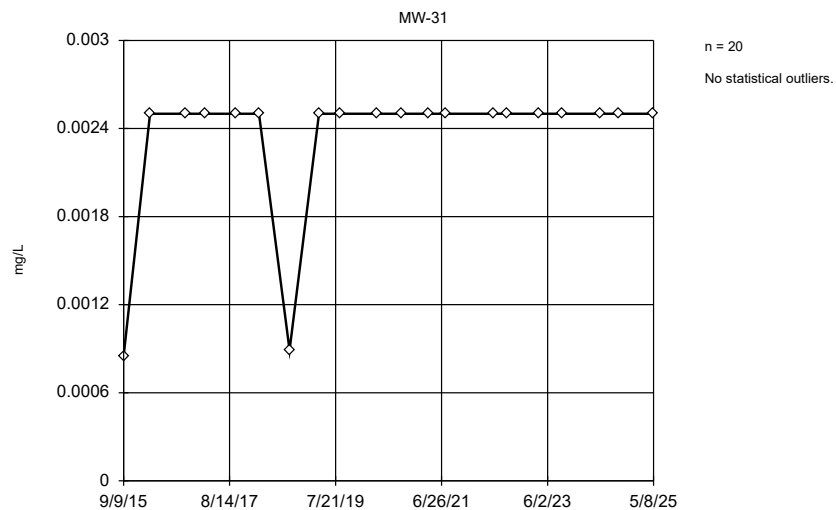
Constituent: Cobalt Analysis Run 12/10/2025 3:44 PM View: 2025_AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Ohio EPA 0715 Outlier Algorithm



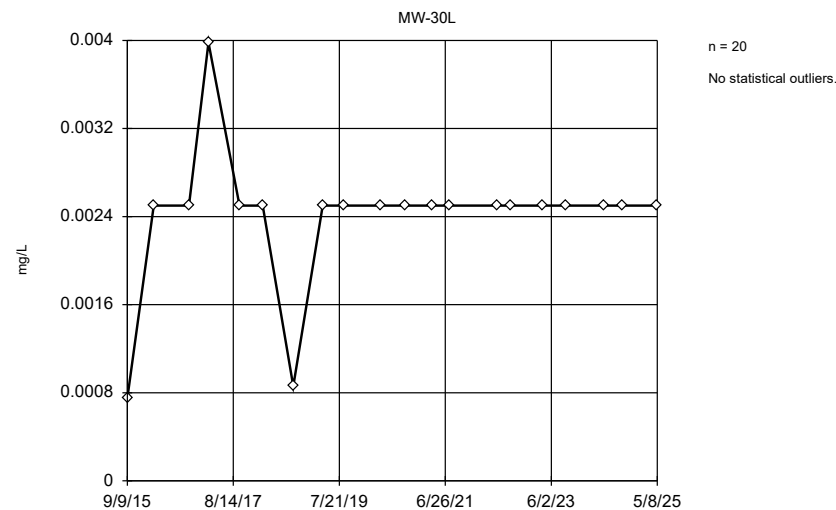
Constituent: Cobalt Analysis Run 12/10/2025 3:44 PM View: 2025_AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Ohio EPA 0715 Outlier Algorithm

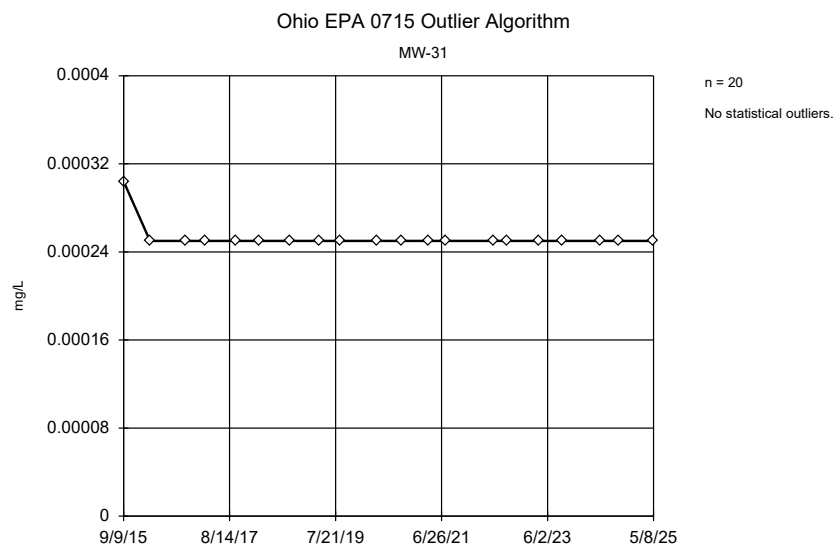


Constituent: Copper Analysis Run 12/10/2025 3:44 PM View: 2025_AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

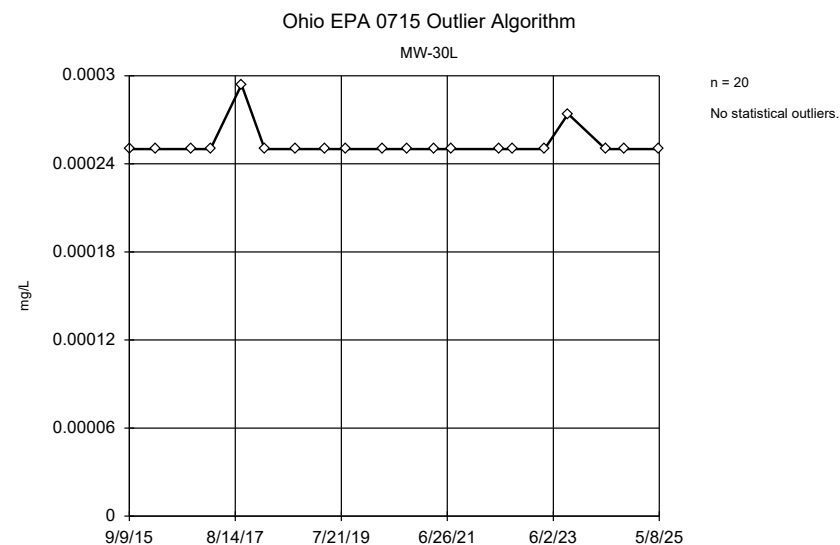
Ohio EPA 0715 Outlier Algorithm



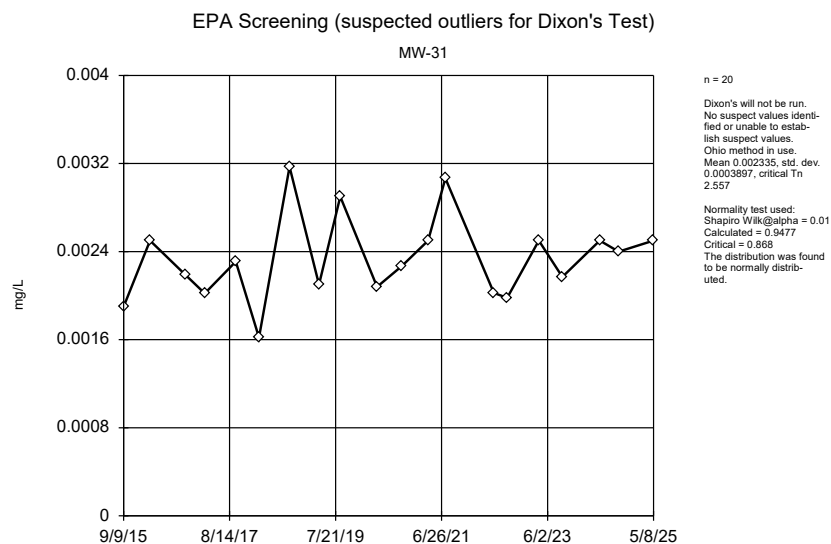
Constituent: Copper Analysis Run 12/10/2025 3:44 PM View: 2025_AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master



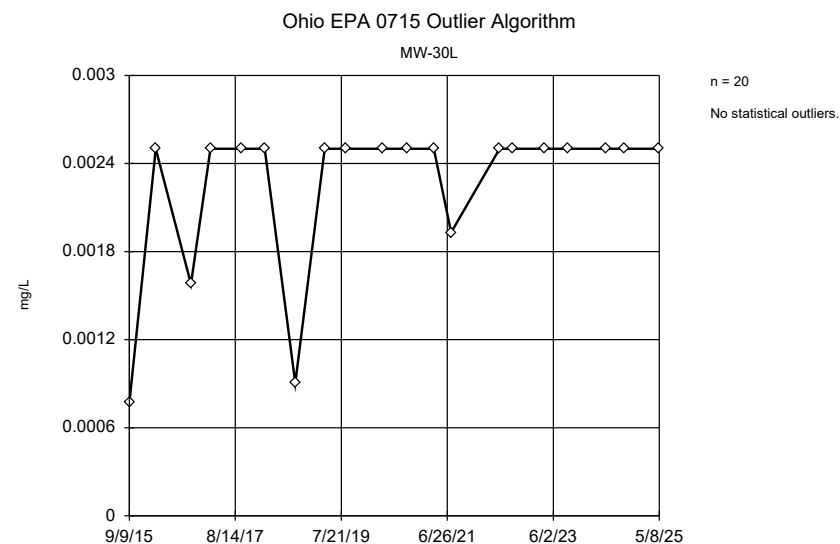
Constituent: Lead Analysis Run 12/10/2025 3:44 PM View: 2025_AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master



Constituent: Lead Analysis Run 12/10/2025 3:44 PM View: 2025_AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

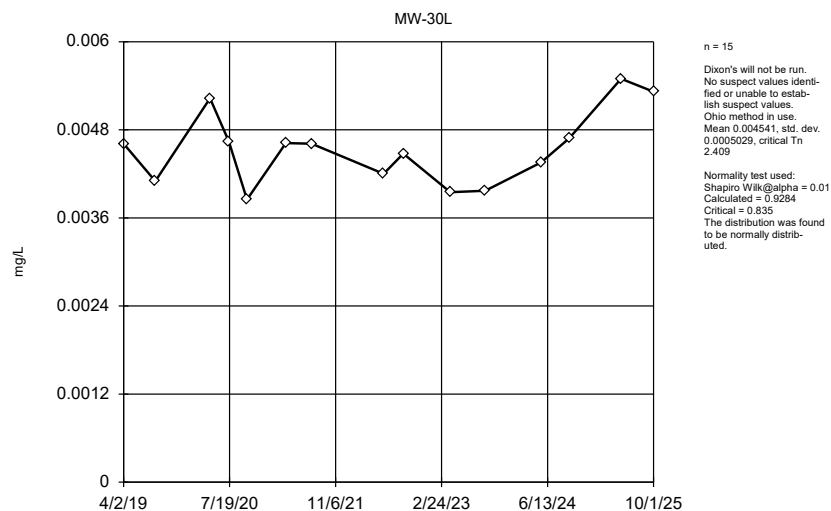


Constituent: Nickel Analysis Run 12/10/2025 3:44 PM View: 2025_AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master



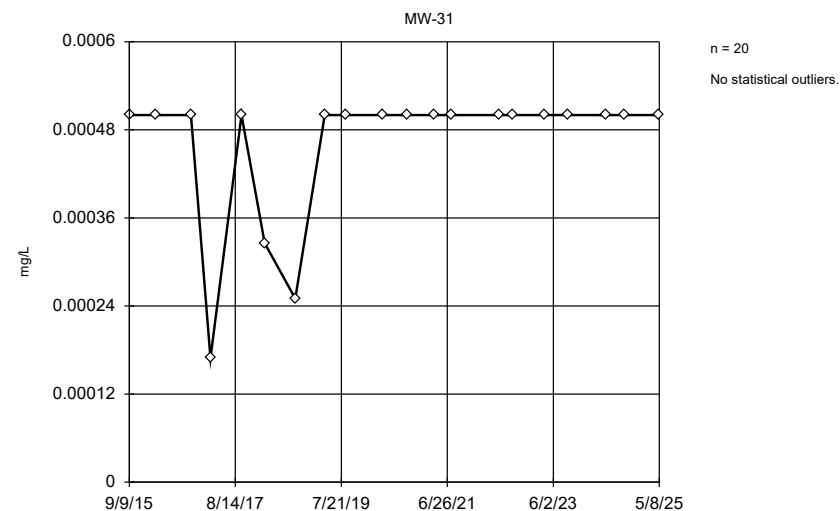
Constituent: Nickel Analysis Run 12/10/2025 3:44 PM View: 2025_AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

EPA Screening (suspected outliers for Dixon's Test)



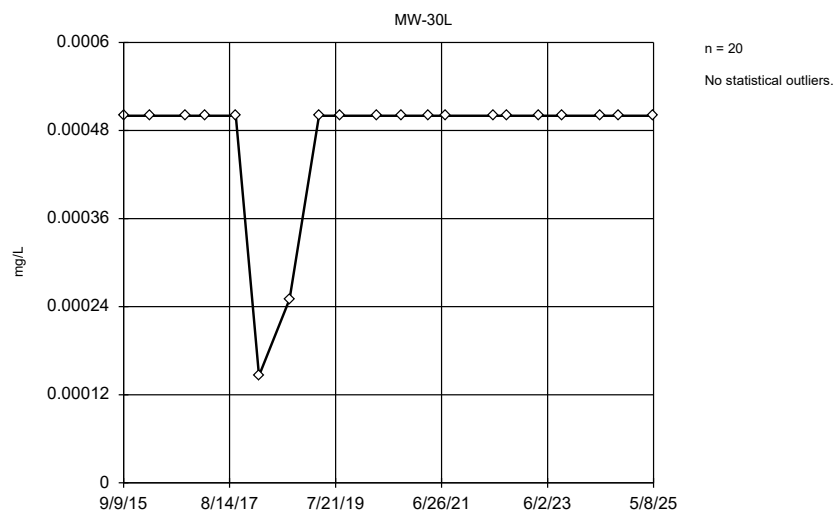
Constituent: Selenium Analysis Run 12/10/2025 3:44 PM View: 2025_AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Ohio EPA 0715 Outlier Algorithm



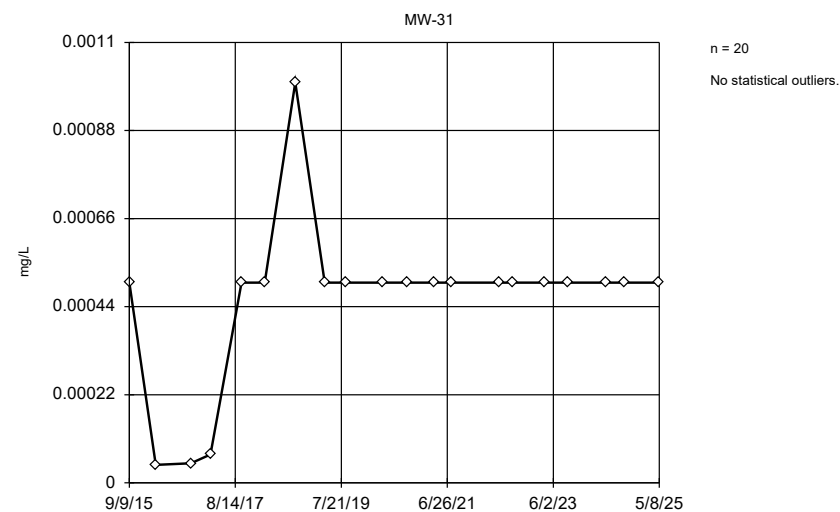
Constituent: Silver Analysis Run 12/10/2025 3:44 PM View: 2025_AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Ohio EPA 0715 Outlier Algorithm

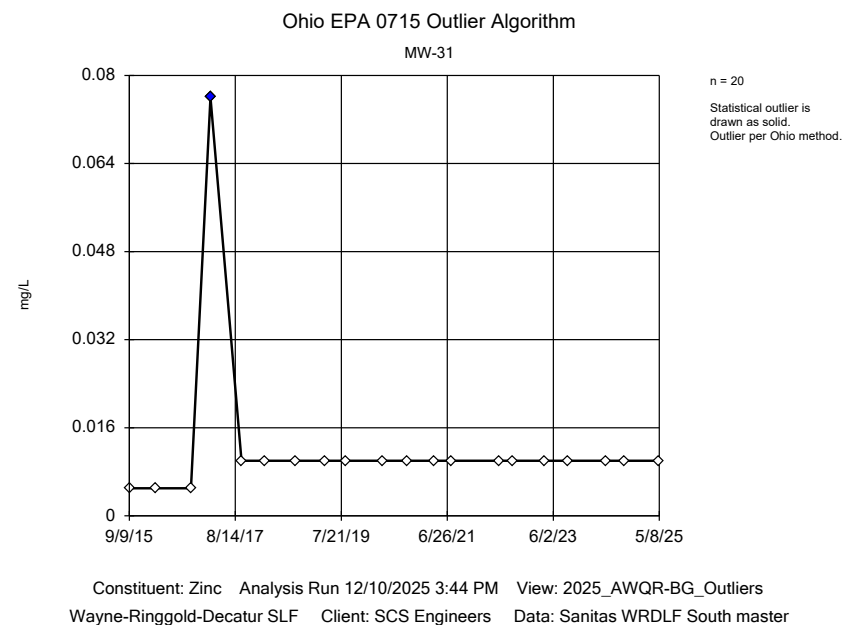
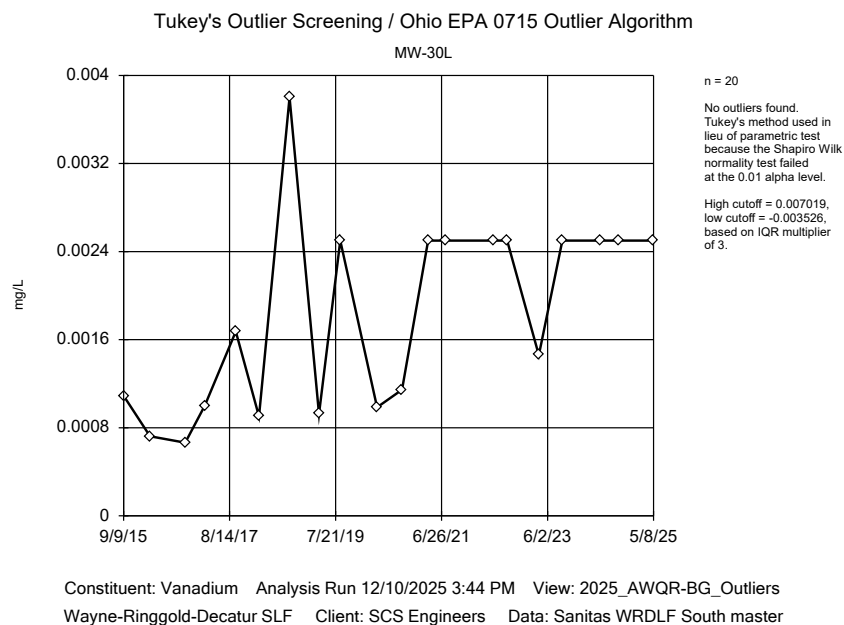
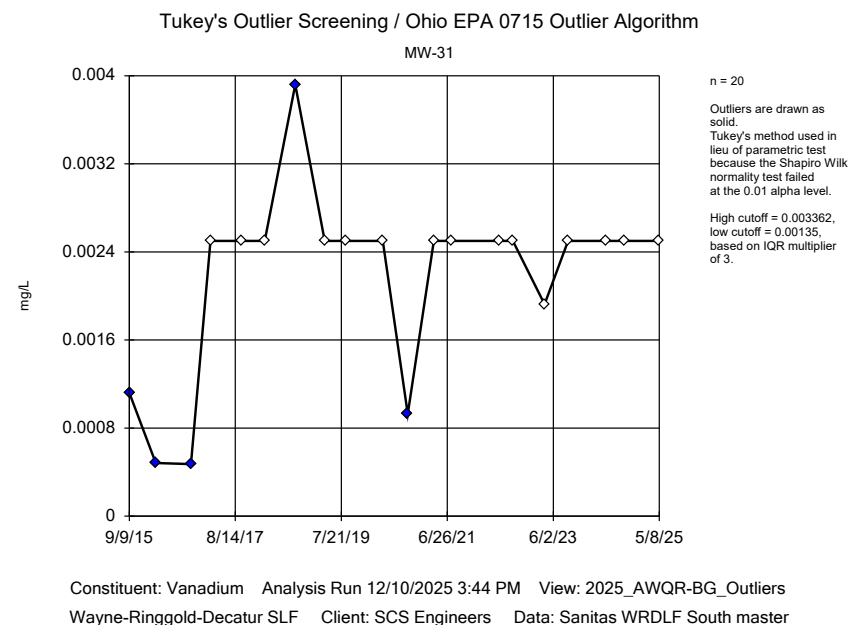
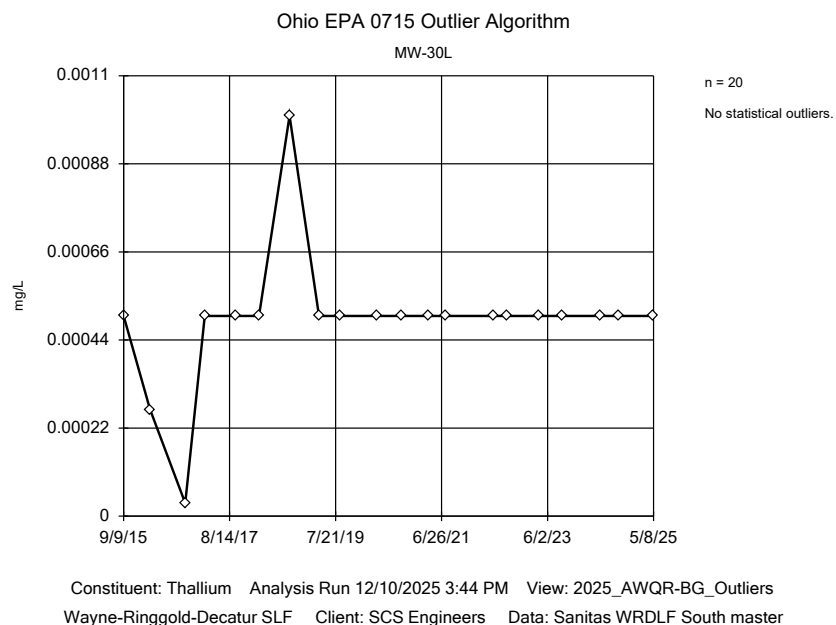


Constituent: Silver Analysis Run 12/10/2025 3:44 PM View: 2025_AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

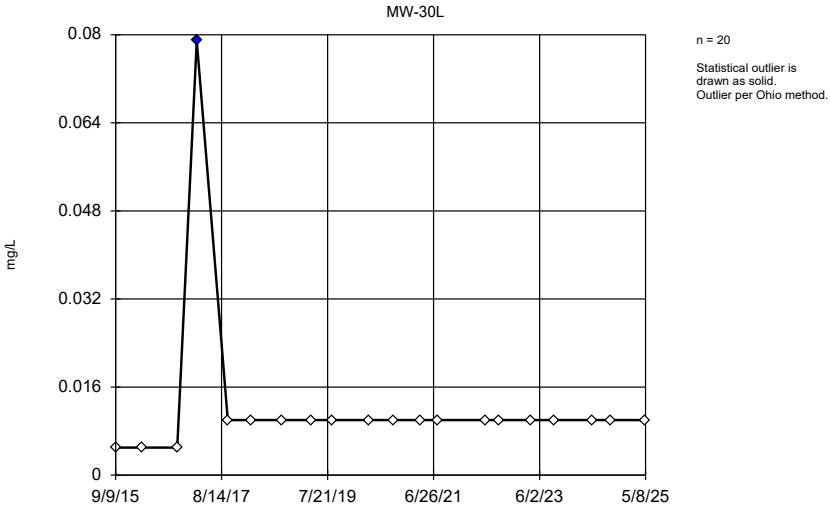
Ohio EPA 0715 Outlier Algorithm



Constituent: Thallium Analysis Run 12/10/2025 3:44 PM View: 2025_AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master



Ohio EPA 0715 Outlier Algorithm



Constituent: Zinc Analysis Run 12/10/2025 3:44 PM View: 2025_AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

MW-30L Intrawell Prediction Limit

Wayne-Ringgold-Decatur SLF

Client: SCS Engineers

Data: Sanitas WRDLF South master

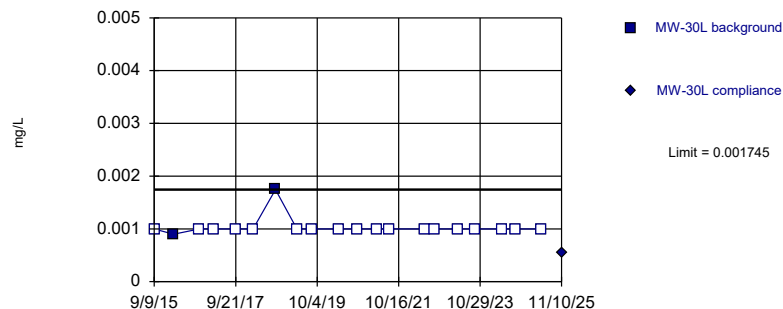
Printed 12/10/2025, 3:38 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Wells</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Arsenic (mg/L)	MW-30L	0.001745	n/a	11/10/2025	0.000557J	No	20	n/a	90	n/a	0.004291	NP Intra (NDs) 1 of 2
Barium (mg/L)	MW-30L	0.1198	n/a	11/10/2025	0.0791	No	20	n/a	0	No	0.00135	Param Intra 1 of 2
Cadmium (mg/L)	MW-30L	0.00025	n/a	11/10/2025	0.0001ND	No	20	n/a	80	n/a	0.004291	NP Intra (NDs) 1 of 2
Chromium (mg/L)	MW-30L	0.0039	n/a	11/10/2025	0.0025ND	No	20	n/a	80	n/a	0.004291	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	MW-30L	0.0005	n/a	11/10/2025	0.00025ND	No	20	n/a	75	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	MW-30L	0.00398	n/a	11/10/2025	0.0025ND	No	20	n/a	85	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	MW-30L	0.000294	n/a	11/10/2025	0.00025ND	No	20	n/a	90	n/a	0.004291	NP Intra (NDs) 1 of 2
Nickel (mg/L)	MW-30L	0.0025	n/a	11/10/2025	0.0025ND	No	20	n/a	80	n/a	0.004291	NP Intra (NDs) 1 of 2
Selenium (mg/L)	MW-30L	0.005665	n/a	11/10/2025	0.00489J	No	15	n/a	0	No	0.00135	Param Intra 1 of 2
Silver (mg/L)	MW-30L	0.0005	n/a	11/10/2025	0.0005ND	No	20	n/a	95	n/a	0.004291	NP Intra (NDs) 1 of 2
Thallium (mg/L)	MW-30L	0.001	n/a	11/10/2025	0.0005ND	No	20	n/a	90	n/a	0.004291	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	MW-30L	0.0038	n/a	11/10/2025	0.00213J	No	20	n/a	45	n/a	0.004291	NP Intra (normality) 1 of 2
Zinc (mg/L)	MW-30L	0.0789	n/a	11/10/2025	0.01ND	No	20	n/a	95	n/a	0.004291	NP Intra (NDs) 1 of 2

Within Limit

Prediction Limit

Intrawell Non-parametric



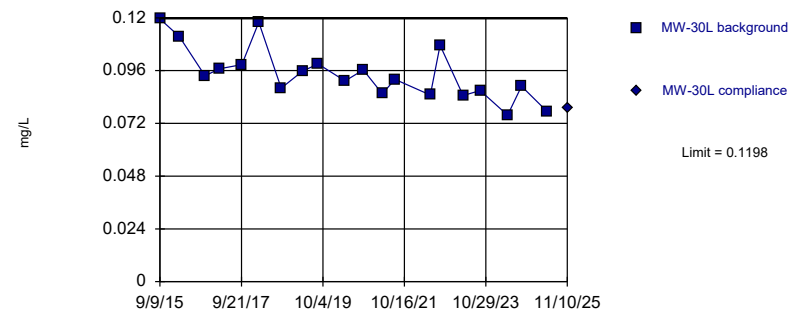
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 12/10/2025 3:36 PM View: 2025_AWQR-MW-30L_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit

Intrawell Parametric



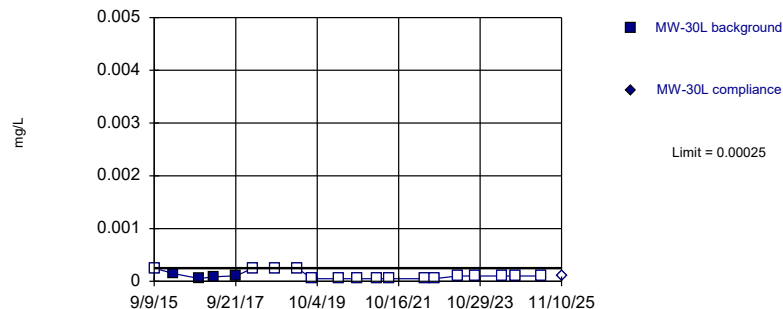
Background Data Summary: Mean=0.09461, Std. Dev.=0.01202, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9411, critical = 0.868. Kappa = 2.096 (c=13, w=3, 1 of 2, event alpha = 0.05132). Report alpha = 0.00135.

Constituent: Barium Analysis Run 12/10/2025 3:36 PM View: 2025_AWQR-MW-30L_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit

Intrawell Non-parametric



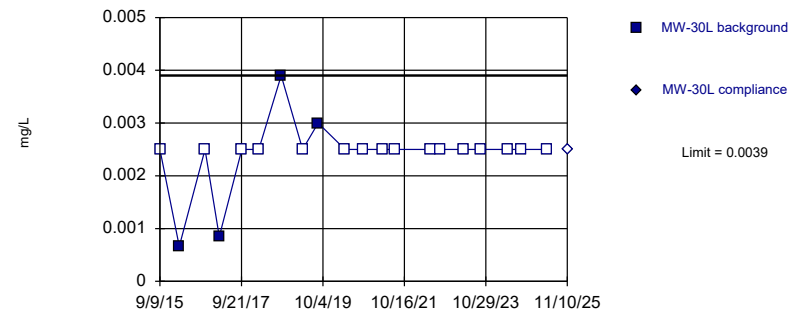
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 80% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cadmium Analysis Run 12/10/2025 3:36 PM View: 2025_AWQR-MW-30L_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit

Intrawell Non-parametric

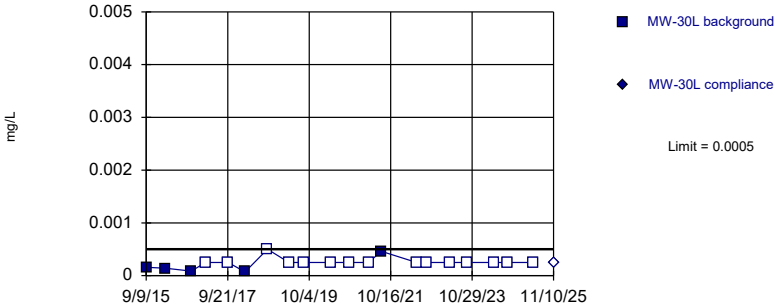


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 80% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Chromium Analysis Run 12/10/2025 3:36 PM View: 2025_AWQR-MW-30L_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit
Intrawell Non-parametric

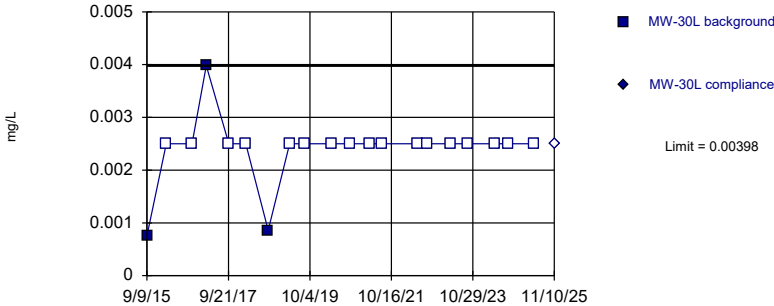


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 75% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cobalt Analysis Run 12/10/2025 3:36 PM View: 2025_AWQR-MW-30L_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit
Intrawell Non-parametric

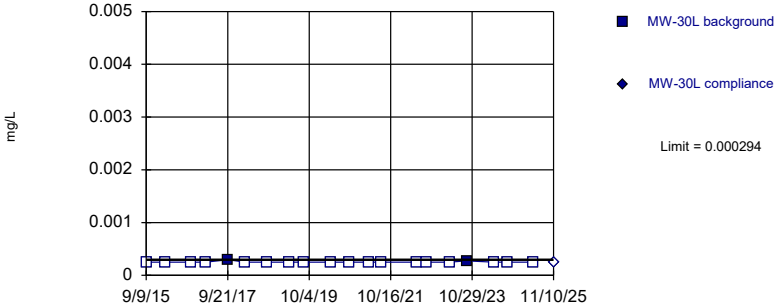


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Copper Analysis Run 12/10/2025 3:36 PM View: 2025_AWQR-MW-30L_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit
Intrawell Non-parametric

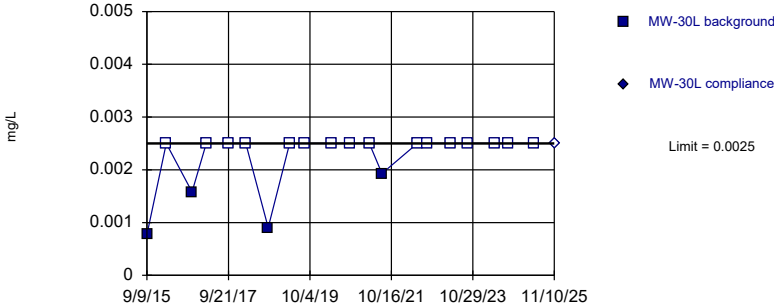


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 12/10/2025 3:36 PM View: 2025_AWQR-MW-30L_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit
Intrawell Non-parametric



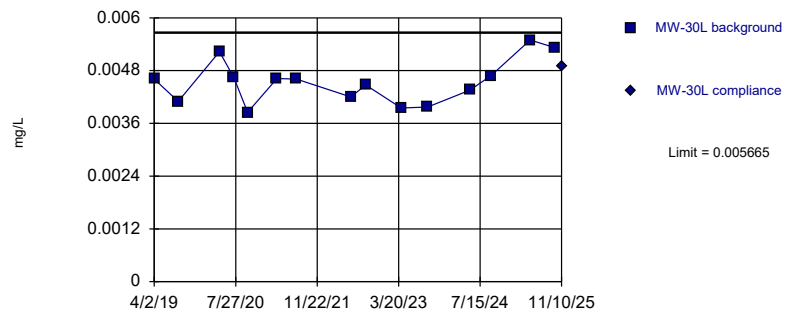
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 80% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Nickel Analysis Run 12/10/2025 3:36 PM View: 2025_AWQR-MW-30L_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit

Intrawell Parametric



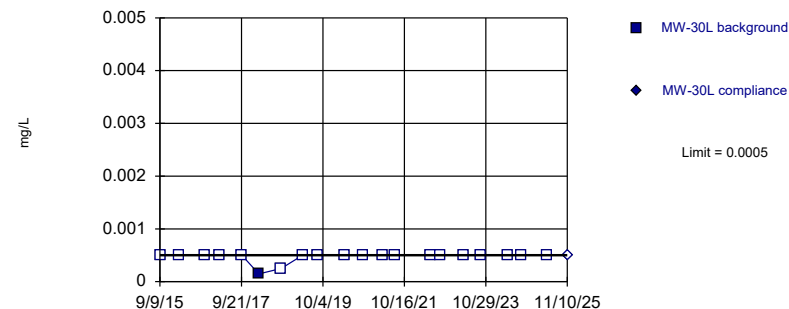
Background Data Summary: Mean=0.004541, Std. Dev.=0.0005029, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9284, critical = 0.835. Kappa = 2.236 (c=13, w=3, 1 of 2, event alpha = 0.05132). Report alpha = 0.00135.

Constituent: Selenium Analysis Run 12/10/2025 3:36 PM View: 2025_AWQR-MW-30L_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit

Intrawell Non-parametric



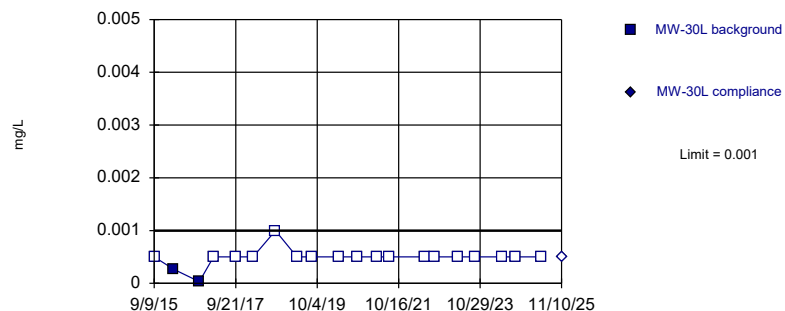
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Silver Analysis Run 12/10/2025 3:36 PM View: 2025_AWQR-MW-30L_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit

Intrawell Non-parametric



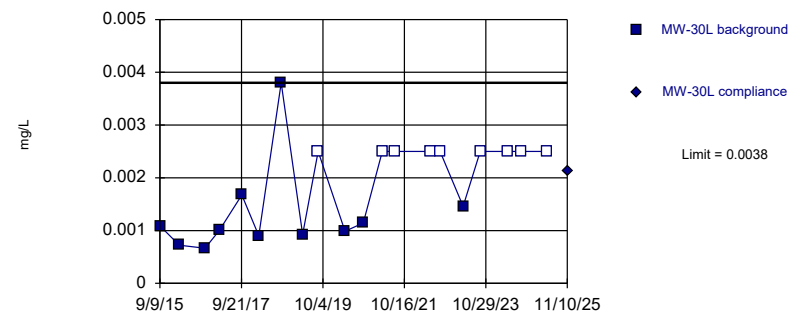
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Thallium Analysis Run 12/10/2025 3:36 PM View: 2025_AWQR-MW-30L_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit

Intrawell Non-parametric



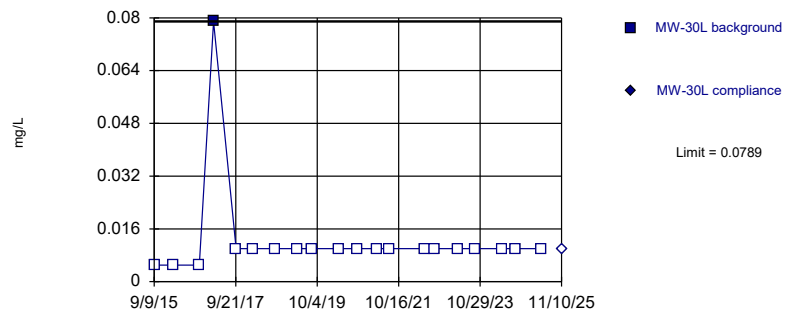
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 20 background values. 45% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Vanadium Analysis Run 12/10/2025 3:36 PM View: 2025_AWQR-MW-30L_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit

Intrawell Non-parametric



MW-31 Intrawell Prediction Limit

Wayne-Ringgold-Decatur SLF

Client: SCS Engineers

Data: Sanitas WRDLF South master

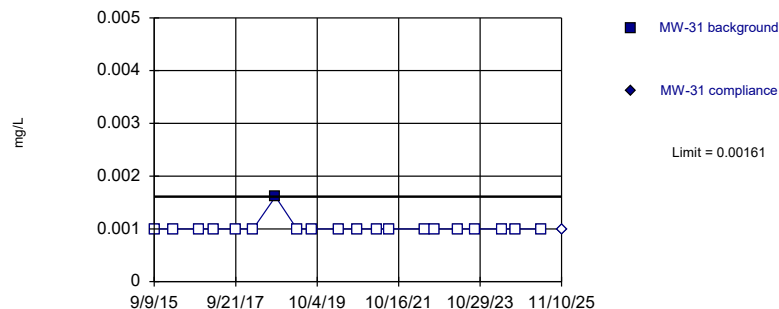
Printed 12/10/2025, 3:23 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Wells</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Arsenic (mg/L)	MW-31	0.00161	n/a	11/10/2025	0.001ND	No	20	n/a	95	n/a	0.004291	NP Intra (NDs) 1 of 2
Barium (mg/L)	MW-31	0.1681	n/a	11/10/2025	0.148	No	20	n/a	0	No	0.001462	Param Intra 1 of 2
Cadmium (mg/L)	MW-31	0.000246	n/a	11/10/2025	0.0001ND	No	22	n/a	13.64	sqrt(x)	0.001462	Param Intra 1 of 2
Chromium (mg/L)	MW-31	0.004	n/a	11/10/2025	0.0025ND	No	20	n/a	90	n/a	0.004291	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	MW-31	0.0005	n/a	11/10/2025	0.00025ND	No	20	n/a	60	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	MW-31	0.0025	n/a	11/10/2025	0.0025ND	No	20	n/a	90	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	MW-31	0.000304	n/a	11/10/2025	0.00025ND	No	20	n/a	95	n/a	0.004291	NP Intra (NDs) 1 of 2
Nickel (mg/L)	MW-31	0.00316	n/a	11/10/2025	0.00233J	No	20	n/a	25	No	0.001462	Param Intra 1 of 2
Silver (mg/L)	MW-31	0.0005	n/a	11/10/2025	0.0005ND	No	20	n/a	90	n/a	0.004291	NP Intra (NDs) 1 of 2
Thallium (mg/L)	MW-31	0.001	n/a	11/10/2025	0.0005ND	No	20	n/a	85	n/a	0.004291	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	MW-31	0.00392	n/a	11/10/2025	0.0025ND	No	20	n/a	70	n/a	0.004291	NP Intra (NDs) 1 of 2
Zinc (mg/L)	MW-31	0.076	n/a	11/10/2025	0.01ND	No	20	n/a	95	n/a	0.004291	NP Intra (NDs) 1 of 2

Within Limit

Prediction Limit

Intrawell Non-parametric



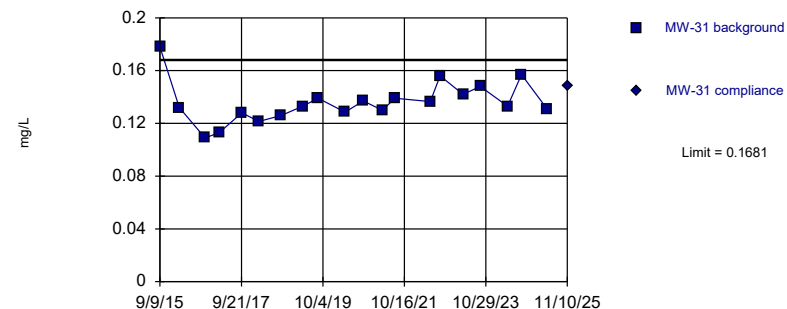
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 12/10/2025 3:19 PM View: 2025_SSN-MW-31_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit

Intrawell Parametric



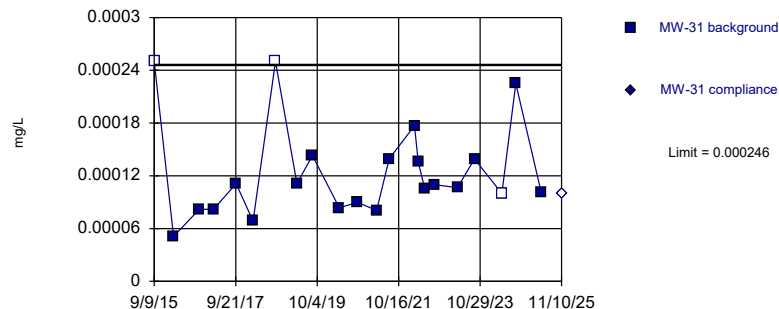
Background Data Summary: Mean=0.1359, Std. Dev.=0.01554, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9357, critical = 0.868. Kappa = 2.074 (c=12, w=3, 1 of 2, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Barium Analysis Run 12/10/2025 3:19 PM View: 2025_SSN-MW-31_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit

Intrawell Parametric



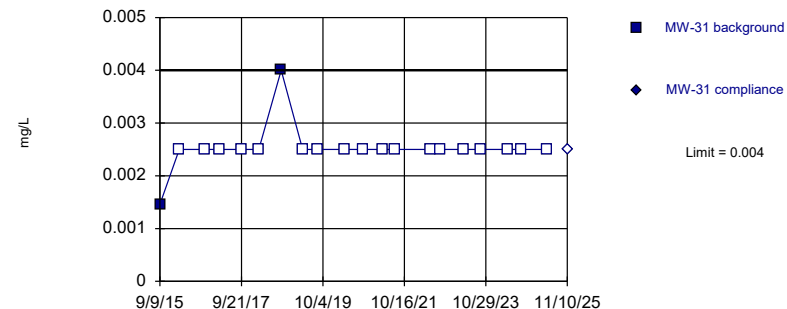
Background Data Summary (based on square root transformation): Mean=0.01093, Std. Dev.=0.002324, n=22, 13.64% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9104, critical = 0.878. Kappa = 2.045 (c=12, w=3, 1 of 2, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Cadmium Analysis Run 12/10/2025 3:19 PM View: 2025_SSN-MW-31_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit

Intrawell Non-parametric



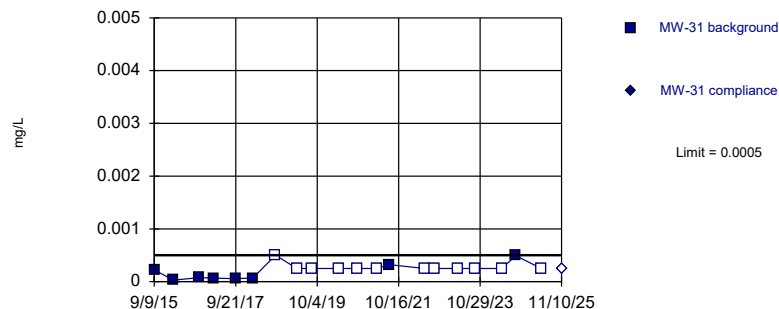
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Chromium Analysis Run 12/10/2025 3:19 PM View: 2025_SSN-MW-31_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit

Intrawell Non-parametric



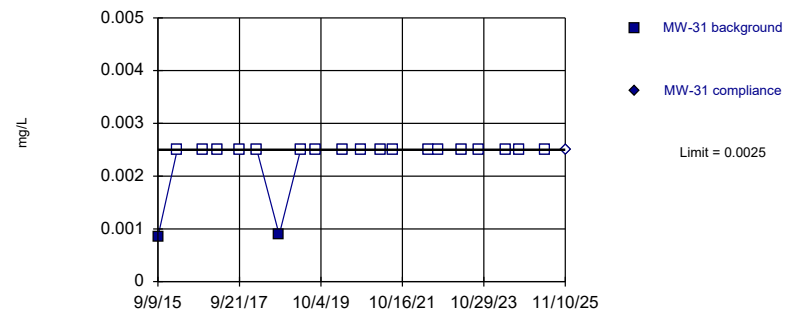
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 60% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cobalt Analysis Run 12/10/2025 3:19 PM View: 2025_SSN-MW-31_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit

Intrawell Non-parametric



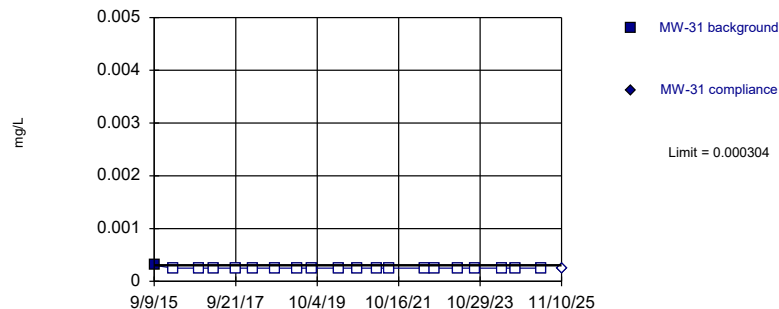
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Copper Analysis Run 12/10/2025 3:19 PM View: 2025_SSN-MW-31_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit

Intrawell Non-parametric



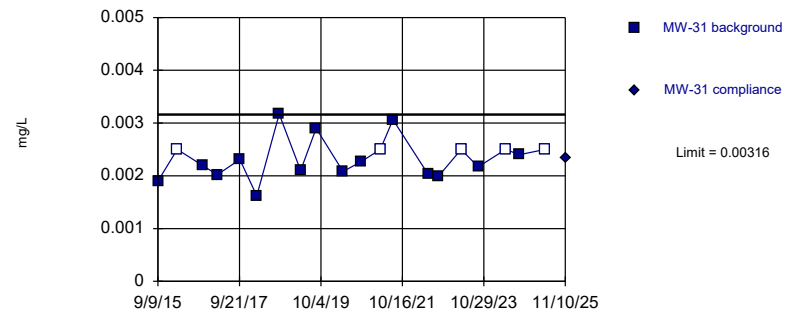
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 12/10/2025 3:19 PM View: 2025_SSN-MW-31_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit

Intrawell Parametric



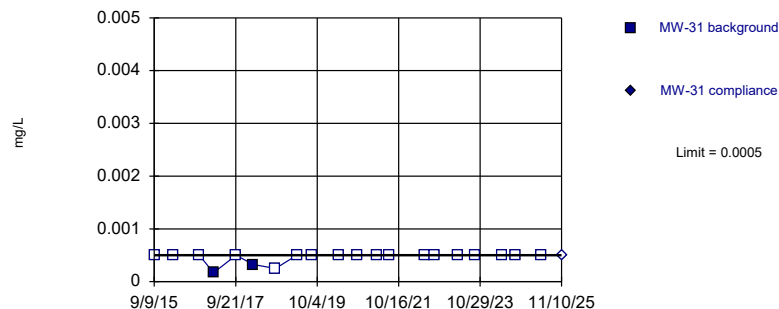
Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.00228, Std. Dev.=0.0004245, n=20, 25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9477, critical = 0.868. Kappa = 2.074 (c=12, w=3, 1 of 2, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Nickel Analysis Run 12/10/2025 3:19 PM View: 2025_SSN-MW-31_IntraPL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF South master

Within Limit

Prediction Limit

Intrawell Non-parametric



Appendix E

2025 Leachate Control System Performance Evaluation Report

Leachate Management Summary
2025 Leachate Collection System Performance Evaluation Report
Wayne-Ringgold-Decatur County Sanitary Landfill
Permit No. 27-SDP-01-75P

Month	Unlined Cells - Column Thickness (ft)					Lined Cells - Maximum Head on Liner (ft)			City of Corning	Precipitation
	PZ-1	PZ-2	PZ-3	PZ-5	PZ-7	LPZ-1	LPZ-2	LPZ-3	POTW (gal)	(in)
January 2025										1.17
February 2025										0.46
March 2025	5.92	5.50	11.96	8.83	Dry	Dry	Dry	Dry		2.50
April 2025										2.82
May 2025										2.58
June 2025	5.50	6.34	11.38	8.66	Dry	Dry	Dry	Dry		7.34
July 2025										6.52
August 2025										0.91
September 2025	5.05	6.34	11.63	8.74	Dry	Dry	Dry	Dry		2.35
October 2025										3.35
November 2025										1.03
December 2025	4.80	5.42	10.71	6.74	Dry	Dry	Dry	Dry		0.86
Reporting Period Total									1,088,218	31.89

Leachate measurements are collected by Landfill staff.

Notes:

- 1) Leachate column thicknesses generally remained consistent with historical measurements. Historical leachate levels and graphs are provided in Attachment A.
- 2) The Commission executed a Service Agreement for Disposal of Leachate at the City of Corning Wastewater Plant on November 13, 2023. Per landfill staff, all leachate was hauled to the City of Corning Wastewater Plant during this reporting period.
- 3) The revised operating permit issued July 9, 2020 (Doc #98046) approved the abandonment documentation for PZ-13 and PZ-14.
- 4) The storage capacity of the leachate lagoon is approximately 692,000 gallons with two feet of freeboard or approximately 926,000 gallons total.
- 5) Precipitation data obtained from https://mesonet.agron.iastate.edu/ASOS/reports/mon_prec.php?year=2025.
- 6) NM - No Measurement

Comments:

Reporting Period: January - December 2025.

Approved Changes to Leachate Collection System: Approximately 840 linear feet of 6-inch perforated HDPE SDR 11 leachate collection pipe was installed and connected to the existing 6-inch perforated HDPE SDR 11 pipe from Phase 4 as submitted in WRD Construction Observation Report (Doc #115625) dated January 12, 2026.

Recommended Changes to Leachate Collection System: None.

Maintenance Performed on Leachate Collection System: None.

Last Date of Cleaning and Inspection: November 2022

Date of Next Cleaning and Inspection: Leachate line cleaning and inspection will be performed in 2026 following the new cell construction.

Volume of Leachate Recirculated: None.

Volume of Leachate Treated Off-Site: 1,088,218 gallons were hauled to the City of Corning POTW during this reporting period.

Leachate Quality Testing Results: Leachate quality testing results for the reporting period are provided in Attachment B.

Table E-1
Historical Leachate Column Thicknesses
2025 Leachate Collection System Performance Evaluation Report
Wayne-Ringgold-Decatur County Sanitary Landfill
Permit No. 27-SDP-01-75P

Date	Leachate Piezometer							
	Unlined					Lined		
	PZ-1	PZ-2	PZ-3	PZ-5	PZ-7	LPZ-1	LPZ-2	LPZ-3
Piezometer Depth	13.21	12.92	25.38	32.62	23.6	NA	NA	17.67
06/17/02	7.15	7.16	22.66	5.80	2.24	NI	NI	NI
09/11/02	7.35	5.77	22.74	8.80	2.72	NI	NI	NI
12/11/02	5.63	5.80	21.20	9.26	2.34	NI	NI	NI
03/04/03	4.35	5.30	20.90	9.10	2.94	NI	NI	NI
06/23/03	7.19	7.02	22.76	9.40	3.76	NI	NI	NI
09/09/03	5.75	6.34	21.38	9.30	1.68	NI	NI	NI
12/11/03	9.11	7.20	22.82	12.56	1.98	NI	NI	NI
03/22/04	9.35	7.32	22.80	12.52	2.22	NI	NI	NI
06/15/04	9.27	7.70	23.42	12.84	2.32	NI	NI	NI
06/29/04	4.95	7.62	15.82	NM	NM	NI	NI	NI
10/04/04	4.89	7.24	13.90	11.96	2.14	NI	NI	NI
12/13/04	Dry	5.50	11.90	11.34	1.84	NI	NI	NI
03/03/05	Dry	6.06	12.74	16.20	2.08	NI	NI	NI
06/07/05	4.93	6.92	13.10	17.98	1.72	NI	NI	NI
09/13/05	4.81	5.92	13.58	16.98	2.20	NI	NI	NI
12/15/05	4.51	4.98	12.66	16.22	2.20	NI	NI	NI
03/02/06	4.71	4.67	12.93	16.22	2.20	NI	NI	NI
06/07/06	4.79	5.40	12.98	17.00	1.92	NI	NI	NI
09/18/06	5.01	5.82	14.28	16.52	2.00	NI	NI	NI
12/27/06	5.11	5.72	13.98	17.42	2.20	NI	NI	NI
03/20/07	4.91	4.92	13.18	17.42	2.50	NI	NI	NI
06/15/07	4.91	6.02	13.28	19.02	2.50	NI	NI	NI
09/27/07	4.86	5.87	13.48	18.52	2.10	Dry	NI	NI
12/06/07	3.91	6.22	12.68	20.02	2.00	Dry	NI	NI
03/26/08	5.21	6.02	12.28	18.12	2.30	Dry	NI	NI
06/18/08	5.11	7.22	13.18	20.12	2.30	Dry	NI	NI
09/16/08	5.31	7.12	13.85	21.85	2.14	NA ⁽¹⁾	NI	NI
12/08/08	5.11	6.42	13.28	18.72	1.20	Dry	NA	NI
01/21/09	4.91	5.52	12.58	17.82	2.00	Dry	NA	NI
02/24/09	4.81	5.02	12.28	17.42	2.20	Dry	NA	NI
03/12/09	5.81	5.57	11.88	18.72	2.20	Dry	Dry	NI
03/20/09	6.21	5.82	12.08	17.82	2.20	Dry	Dry	NI
04/17/09	5.31	5.92	11.88	17.82	2.10	0.10	0.11	NI
05/20/09	5.11	6.22	12.38	18.72	2.20	Dry	Dry	NI
06/29/09	5.21	6.52	12.28	19.12	2.10	Dry	Dry	NI
07/22/09	4.91	6.22	12.18	18.72	2.00	Dry	Dry	NI
08/24/09	4.91	5.92	12.08	18.82	1.90	Dry	Dry	NI
09/18/09	4.99	6.16	12.18	19.32	2.04	Dry	Dry	NI
10/12/09	4.81	5.72	11.88	19.02	2.00	Dry	Dry	NI
11/23/09	5.41	6.72	12.08	21.72	2.90	Dry	Dry	NI
12/21/09	5.01	5.92	11.58	27.62	1.80	Dry	Dry	NI

Table E-1
Historical Leachate Column Thicknesses
2025 Leachate Collection System Performance Evaluation Report
Wayne-Ringgold-Decatur County Sanitary Landfill
Permit No. 27-SDP-01-75P

Date	Leachate Piezometer							
	Unlined					Lined		
	PZ-1	PZ-2	PZ-3	PZ-5	PZ-7	LPZ-1	LPZ-2	LPZ-3
Piezometer Depth	13.21	12.92	25.38	32.62	23.6	NA	NA	17.67
01/26/10	5.61	6.12	11.08	NM	2.00	Dry	Dry	NI
02/25/10	4.91	5.62	11.18	20.62	1.70	Dry	Dry	NI
03/31/10	5.51	6.52	11.68	23.62	2.30	Dry	Dry	NI
04/12/10	5.25	6.48	11.09	32.55	2.29	Dry	Dry	NI
05/27/10	5.51	6.42	11.38	30.72	2.20	Dry	Dry	NI
06/30/10	5.01	7.02	11.68	22.42	2.10	Dry	Dry	NI
07/28/10	5.11	7.22	11.48	22.92	2.40	Dry	Dry	NI
08/10/10	4.90	6.69	11.79	21.55	1.91	Dry	Dry	NI
09/21/10	5.51	7.22	11.88	23.02	2.50	Dry	Dry	NI
10/11/10	4.81	6.32	11.98	19.22	2.20	Dry	Dry	NI
11/09/10	4.71	6.02	11.78	17.82	2.20	Dry	Dry	NI
12/08/10	4.51	5.82	11.38	17.42	1.90	Dry	Dry	NI
01/06/11	4.81	5.62	11.28	18.22	1.90	Dry	Dry	NI
02/22/11	5.51	5.02	10.68	17.62	1.70	Dry	Dry	NI
03/18/11	5.01	5.52	10.68	17.32	2.10	Dry	Dry	NI
04/25/11	5.31	6.72	11.08	20.82	2.50	Dry	Dry	NI
05/09/11	5.01	6.12	11.28	19.72	2.40	Dry	Dry	NI
06/24/11	5.01	6.82	10.98	19.82	2.10	Dry	Dry	NI
07/28/11	4.91	6.32	11.28	19.02	2.00	Dry	Dry	NI
08/26/11	4.91	6.42	11.28	19.22	2.10	Dry	Dry	NI
09/23/11	4.71	5.82	11.58	18.72	1.90	Dry	Dry	NI
10/31/11	5.21	6.52	11.18	18.92	2.00	Dry	Dry	NI
11/19/11	4.41	5.72	11.58	18.72	1.90	Dry	Dry	NI
12/08/11	5.01	6.12	10.98	Dry	1.30	Dry	Dry	NI
01/09/12	4.91	5.62	10.78	Dry	1.80	Dry	Dry	NI
02/02/12	4.61	5.32	10.68	Dry	1.90	Dry	Dry	NI
03/15/12	5.31	6.12	10.78	Dry	1.70	Dry	Dry	NI
04/06/12	5.01	5.92	10.88	Dry	1.80	Dry	Dry	NI
05/10/12	5.21	6.52	10.88	Dry	2.10	Dry	Dry	NI
06/15/12	4.71	5.82	10.68	Dry	1.90	Dry	Dry	NI
07/17/12	4.81	5.62	11.08	Dry	1.90	Dry	Dry	NI
08/02/12	4.51	5.42	11.18	Dry	1.80	Dry	Dry	NI
09/07/12	4.51	5.22	11.78	Dry	1.70	Dry	Dry	NI
10/11/12	4.31	4.62	11.48	Dry	1.70	Dry	Dry	NI
11/01/12	4.71	4.52	11.58	18.22	1.90	Dry	Dry	NI
12/03/12	4.21	4.42	11.68	18.32	2.00	Dry	Dry	NI
01/09/13	4.01	3.72	10.88	Dry	1.90	Dry	Dry	NI
02/04/13	4.01	3.62	10.78	Dry	1.70	Dry	Dry	NI
03/29/13	3.71	3.52	10.58	Dry	1.60	Dry	Dry	NI
04/03/13	3.71	3.52	10.58	Dry	1.60	Dry	Dry	NI
05/01/13	5.31	5.22	11.88	Dry	1.90	Dry	Dry	NI
06/03/13	5.31	6.82	11.58	26.52	2.30	Dry	Dry	NI
07/15/13	4.91	6.92	11.18	20.62	1.90	Dry	Dry	NI
08/02/13	5.01	7.22	11.78	20.32	1.10	Dry	Dry	NI
09/01/13	4.51	6.22	11.78	18.92	1.30	Dry	Dry	NI
10/01/13	5.01	6.02	11.68	18.82	1.20	Dry	Dry	NI
11/01/13	4.91	6.12	11.78	18.92	1.50	Dry	Dry	NI
12/01/13	4.41	5.32	11.68	18.92	1.70	Dry	Dry	NI

Table E-1
Historical Leachate Column Thicknesses
2025 Leachate Collection System Performance Evaluation Report
Wayne-Ringgold-Decatur County Sanitary Landfill
Permit No. 27-SDP-01-75P

Date	Leachate Piezometer							
	Unlined					Lined		
	PZ-1	PZ-2	PZ-3	PZ-5	PZ-7	LPZ-1	LPZ-2	LPZ-3
Piezometer Depth	13.21	12.92	25.38	32.62	23.6	NA	NA	17.67
01/01/14	5.01	4.52	10.88	18.52	1.80	Dry	Dry	NI
02/01/14	4.61	4.52	10.78	18.32	1.60	Dry	Dry	NI
03/01/14	4.81	4.02	10.48	18.02	1.80	Dry	Dry	NI
04/01/14	4.91	4.02	10.48	17.92	1.70	Dry	Dry	NI
05/01/14	5.21	5.52	10.88	19.82	2.10	Dry	Dry	NI
06/01/14	5.11	6.52	11.08	18.82	1.50	Dry	Dry	NI
07/01/14	5.31	6.92	11.18	19.72	1.90	Dry	Dry	NA
08/02/14	5.01	5.72	11.48	19.42	2.00	Dry	Dry	NA
09/04/14	4.91	5.62	11.48	20.32	2.00	Dry	Dry	NA
10/20/14	5.41	6.92	11.68	20.02	2.00	Dry	Dry	NA
11/03/14	5.31	6.32	10.88	19.82	1.80	Dry	Dry	NA
12/23/14	5.11	6.02	10.78	19.62	2.10	Dry	Dry	NA
01/19/15	4.81	4.02	10.48	19.20	1.80	Dry	Dry	5.25
02/24/15	4.91	4.02	10.48	19.95	1.70	Dry	Dry	5.09
03/24/15	5.21	5.52	10.88	19.45	2.10	Dry	Dry	5.00
04/14/15	5.11	6.52	11.08	20.04	1.50	Dry	Dry	4.92
05/07/15	5.31	6.92	11.18	20.45	1.90	Dry	Dry	4.67
06/18/15	5.46	7.22	11.28	17.12	2.20	Dry	Dry	5.67
07/09/15	5.54	7.42	11.38	19.87	2.30	Dry	Dry	5.92
08/13/15	5.41	7.22	11.18	20.20	2.20	Dry	Dry	Dry
09/28/15	4.71	6.62	11.38	19.87	2.10	Dry	Dry	Dry
10/05/15	5.51	7.22	11.18	19.37	2.20	Dry	Dry	Dry
11/03/15	5.04	5.50	11.30	18.92	2.02	Dry	Dry	Dry
12/31/15	5.54	5.67	11.13	19.62	1.93	Dry	Dry	Dry
01/13/16	5.46	7.17	11.05	21.02	2.02	Dry	Dry	Dry
02/05/16	6.46	5.92	10.71	20.02	2.10	Dry	Dry	Dry
03/11/16	5.21	6.17	11.05	19.82	2.27	Dry	Dry	Dry
04/26/16	5.63	7.34	11.13	20.62	2.60	Dry	Dry	Dry
05/12/16	5.13	6.92	11.21	20.52	2.18	Dry	Dry	Dry
06/27/16	5.13	6.92	11.30	19.42	2.27	Dry	Dry	Dry
07/06/16	5.11	5.67	11.63	19.62	2.27	Dry	Dry	Dry
08/02/16	5.11	6.42	11.38	19.42	2.18	Dry	Dry	Dry
09/02/16	5.01	5.72	11.48	19.22	2.00	Dry	Dry	Dry
10/28/16	4.91	5.62	11.48	19.12	2.00	Dry	Dry	Dry
11/14/16	5.41	6.92	11.68	19.32	2.00	Dry	Dry	Dry
12/21/16	5.31	6.32	10.88	19.22	1.80	Dry	Dry	Dry
01/13/17	4.51	3.82	10.48	18.62	1.90	Dry	Dry	Dry
02/14/17	5.01	4.42	11.08	19.12	1.90	Dry	Dry	Dry
03/20/17	4.81	4.22	10.58	18.92	2.00	Dry	Dry	Dry
04/24/17	5.51	5.72	11.28	21.12	2.40	Dry	Dry	Dry
05/03/17	6.01	6.02	10.98	21.02	2.50	Dry	Dry	Dry
06/27/17	5.11	6.12	11.08	20.52	1.00	Dry	Dry	Dry
07/10/17	5.11	6.12	11.38	20.32	0.80	Dry	Dry	Dry
08/14/17	5.11	5.82	11.48	19.32	2.00	Dry	Dry	Dry
09/29/17	4.91	5.22	11.18	19.42	1.80	Dry	Dry	Dry
10/13/17	5.01	5.22	11.38	19.52	1.90	Dry	Dry	Dry
11/16/17	4.91	5.22	10.88	19.12	2.10	Dry	Dry	Dry
12/04/17	4.71	5.12	10.88	19.02	1.90	Dry	Dry	Dry

Table E-1
Historical Leachate Column Thicknesses
2025 Leachate Collection System Performance Evaluation Report
Wayne-Ringgold-Decatur County Sanitary Landfill
Permit No. 27-SDP-01-75P

Date	Leachate Piezometer							
	Unlined					Lined		
	PZ-1	PZ-2	PZ-3	PZ-5	PZ-7	LPZ-1	LPZ-2	LPZ-3
Piezometer Depth	13.21	12.92	25.38	32.62	23.6	NA	NA	17.67
01/29/18	4.61	4.02	10.08	19.02	1.90	Dry	Dry	Dry
02/12/18	4.51	3.92	9.98	19.02	2.60	Dry	Dry	Dry
03/30/18	6.01	4.42	10.28	20.52	2.60	Dry	Dry	Dry
04/30/18	5.61	4.92	10.08	21.42	2.50	Dry	Dry	Dry
05/24/18	5.61	5.22	10.58	22.92	2.40	Dry	Dry	Dry
06/30/18	5.61	5.72	10.78	22.62	2.00	Dry	Dry	Dry
07/30/18	5.21	5.82	11.08	22.12	1.90	Dry	Dry	Dry
08/27/18	5.61	5.62	11.18	21.42	1.70	Dry	Dry	Dry
09/20/18	5.21	6.62	11.18	24.22	Dry	Dry	Dry	Dry
10/24/18	5.21	6.62	10.78	23.22	Dry	Dry	Dry	Dry
11/30/18	6.31	6.22	10.78	23.32	Dry	Dry	Dry	Dry
12/28/18	5.61	6.32	11.08	24.22	Dry	Dry	Dry	Dry
01/31/19	5.61	6.72	11.28	24.02	Dry	Dry	Dry	Dry
02/26/19	5.21	6.32	10.98	24.62	Dry	Dry	Dry	Dry
03/28/19	4.91	6.32	10.98	24.42	Dry	Dry	Dry	Dry
04/26/19	5.21	6.42	11.28	22.22	Dry	Dry	Dry	Dry
05/28/19	5.01	6.32	10.98	24.02	Dry	Dry	Dry	Dry
06/29/19	5.11	6.32	10.98	23.42	Dry	Dry	Dry	Dry
07/29/19	4.81	6.32	11.38	23.62	Dry	Dry	Dry	Dry
08/30/19	5.11	6.32	10.88	0.00	Dry	Dry	Dry	Dry
09/30/19	5.01	6.32	10.98	0.00	Dry	Dry	Dry	Dry
10/23/19	5.11	6.22	10.88	33.19	Dry	Dry	Dry	Dry
11/20/19	4.91	6.32	10.78	32.92	Dry	Dry	Dry	Dry
12/31/19	4.91	6.62	11.18	30.92	Dry	Dry	Dry	Dry
01/31/20	5.31	6.32	10.78	30.82	Dry	Dry	Dry	Dry
02/29/20	4.91	6.42	11.08	31.02	Dry	Dry	Dry	Dry
03/31/20	4.91	6.52	10.98	31.02	Dry	Dry	Dry	Dry
04/30/20	5.61	7.72	14.68	29.52	Dry	Dry	Dry	Dry
05/29/20	5.31	7.69	14.58	30.02	Dry	Dry	Dry	Dry
06/30/20	5.11	6.32	11.28	28.92	Dry	Dry	Dry	Dry
07/31/20	5.11	5.92	11.28	33.02	Dry	Dry	Dry	Dry
08/25/20	5.21	6.12	11.28	32.32	Dry	Dry	Dry	Dry
09/30/20	5.11	6.62	11.18	31.32	Dry	Dry	Dry	Dry
10/30/20	5.11	6.42	11.38	31.32	Dry	Dry	Dry	Dry
11/30/20	5.21	6.52	11.38	31.12	Dry	Dry	Dry	Dry
12/28/20	5.01	6.72	11.28	31.02	Dry	Dry	Dry	Dry

Table E-1
Historical Leachate Column Thicknesses
2025 Leachate Collection System Performance Evaluation Report
Wayne-Ringgold-Decatur County Sanitary Landfill
Permit No. 27-SDP-01-75P

Date	Leachate Piezometer							
	Unlined					Lined		
	PZ-1	PZ-2	PZ-3	PZ-5	PZ-7	LPZ-1	LPZ-2	LPZ-3
Piezometer Depth	13.21	12.92	25.38	32.62	23.6	NA	NA	17.67
03/29/21	5.61	7.12	11.78	22.42	3.40	Dry	Dry	Dry
06/29/21	5.31	6.82	11.48	31.32	Dry	Dry	Dry	Dry
09/23/21	5.41	9.82	11.58	31.62	Dry	Dry	Dry	Dry
12/02/21	5.55	6.62	11.72	24.12	3.30	Dry	Dry	Dry
03/09/22	5.71	5.42	10.98	28.42	Dry	Dry	Dry	Dry
06/22/22	5.46	6.72	ME	28.42	Dry	Dry	Dry	Dry
09/28/22	4.91	5.32	11.08	21.12	Dry	Dry	Dry	Dry
12/09/22	5.01	5.22	11.48	21.12	Dry	Dry	Dry	Dry
03/29/23	6.11	6.72	14.68	26.82	Dry	Dry	Dry	Dry
06/16/23	5.21	6.52	11.48	22.12	Dry	Dry	Dry	Dry
09/07/23	5.21	6.52	11.98	22.42	Dry	Dry	Dry	Dry
12/22/23	4.51	4.67	11.28	20.92	Dry	Dry	Dry	Dry
03/19/24	5.61	5.32	11.38	NM	Dry	Dry	Dry	Dry
06/12/24	5.41	6.22	11.38	13.52	Dry	Dry	Dry	Dry
09/06/24	5.21	5.62	11.38	12.12	Dry	Dry	Dry	Dry
12/16/24	5.01	4.92	11.38	10.72	Dry	Dry	Dry	Dry
03/13/25	5.92	5.50	11.96	8.83	Dry	Dry	Dry	Dry
06/13/25	5.50	6.34	11.38	8.66	Dry	Dry	Dry	Dry
09/16/25	5.05	6.34	11.63	8.74	Dry	Dry	Dry	Dry
12/09/25	4.80	5.42	10.71	6.74	Dry	Dry	Dry	Dry

Notes:

Leachate levels measured by landfill staff.

NM - Not Measured, NA - Not Available, NI - Not Installed, ME - Measurement Error

Piezometer Depth based on historical documentation and adjusted within the leachate thickness calculation as follows:

PZ-5 extended four feet on 09/17/03, another four feet on 01/15/04, and another four feet on 1/3/07

PZ-6 was extended 4 feet on 8/10/05

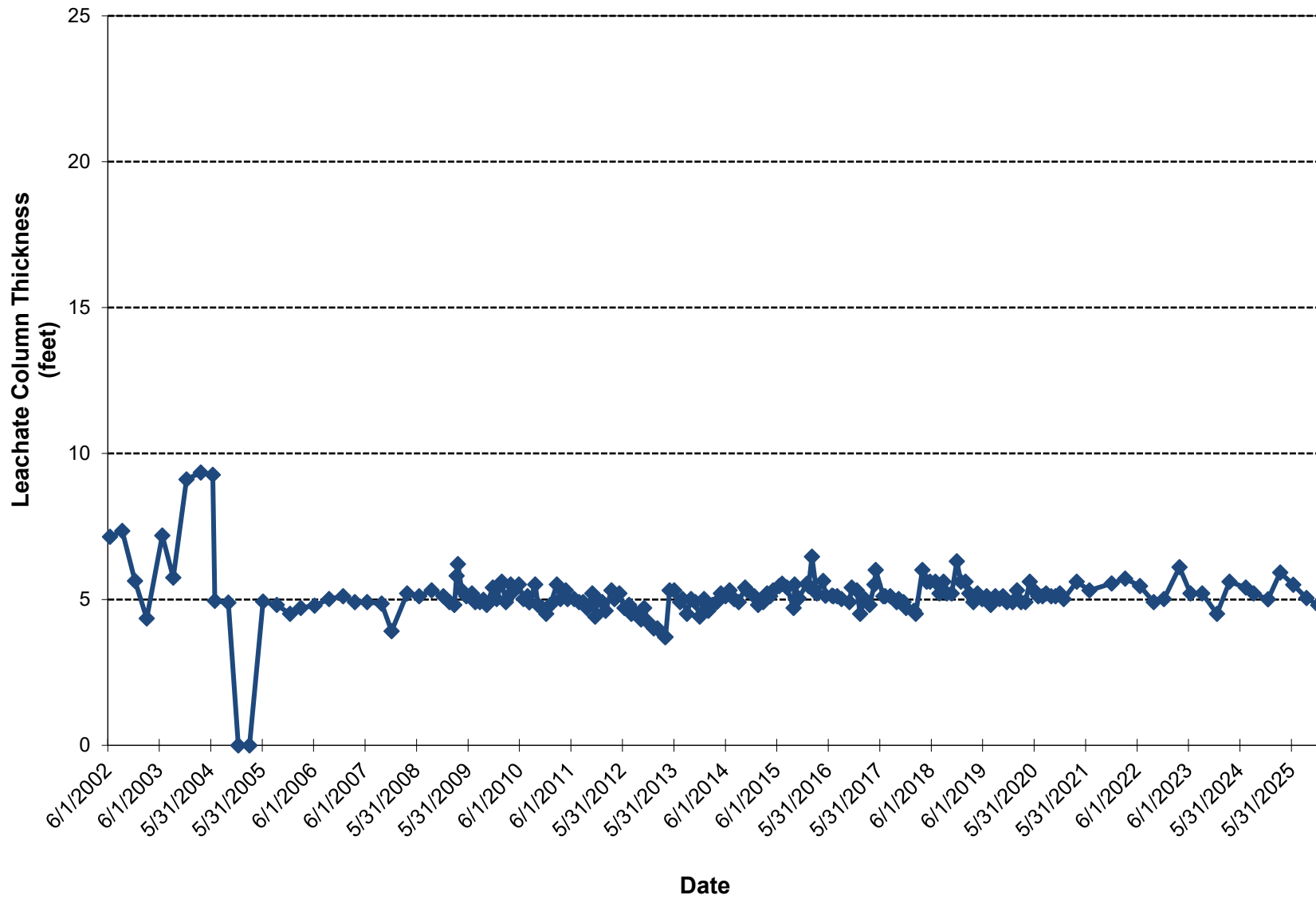
PZ-8 was abandoned on 6/6/00

PZ-6 was abandoned on 9/27/05

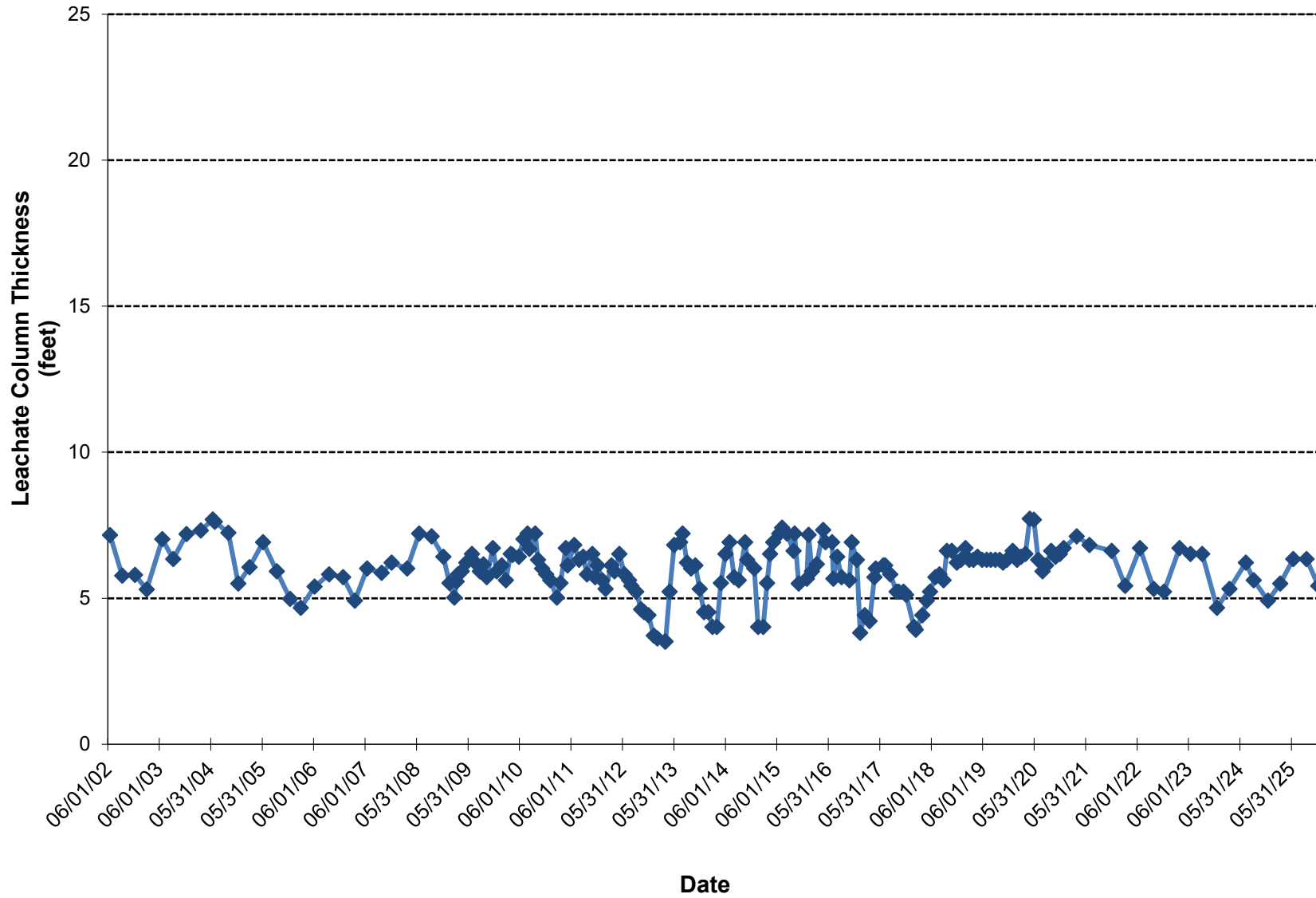
PZ-4 was abandoned on 8/4/06

⁽¹⁾ This measurement is assumed to be an anomaly based on previous and subsequent measurements.

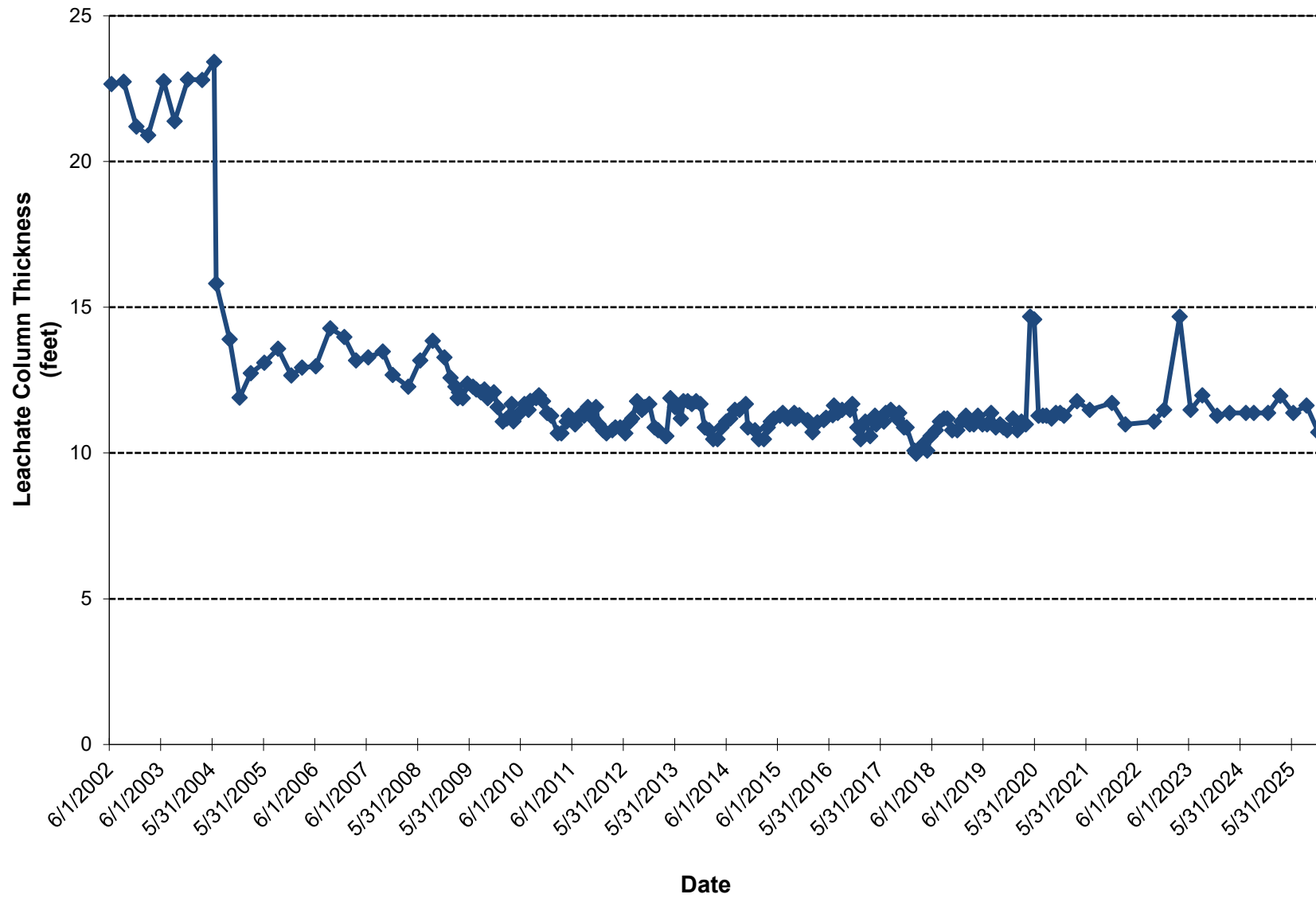
Wayne-Ringgold-Decatur Sanitary Landfill
PZ-1



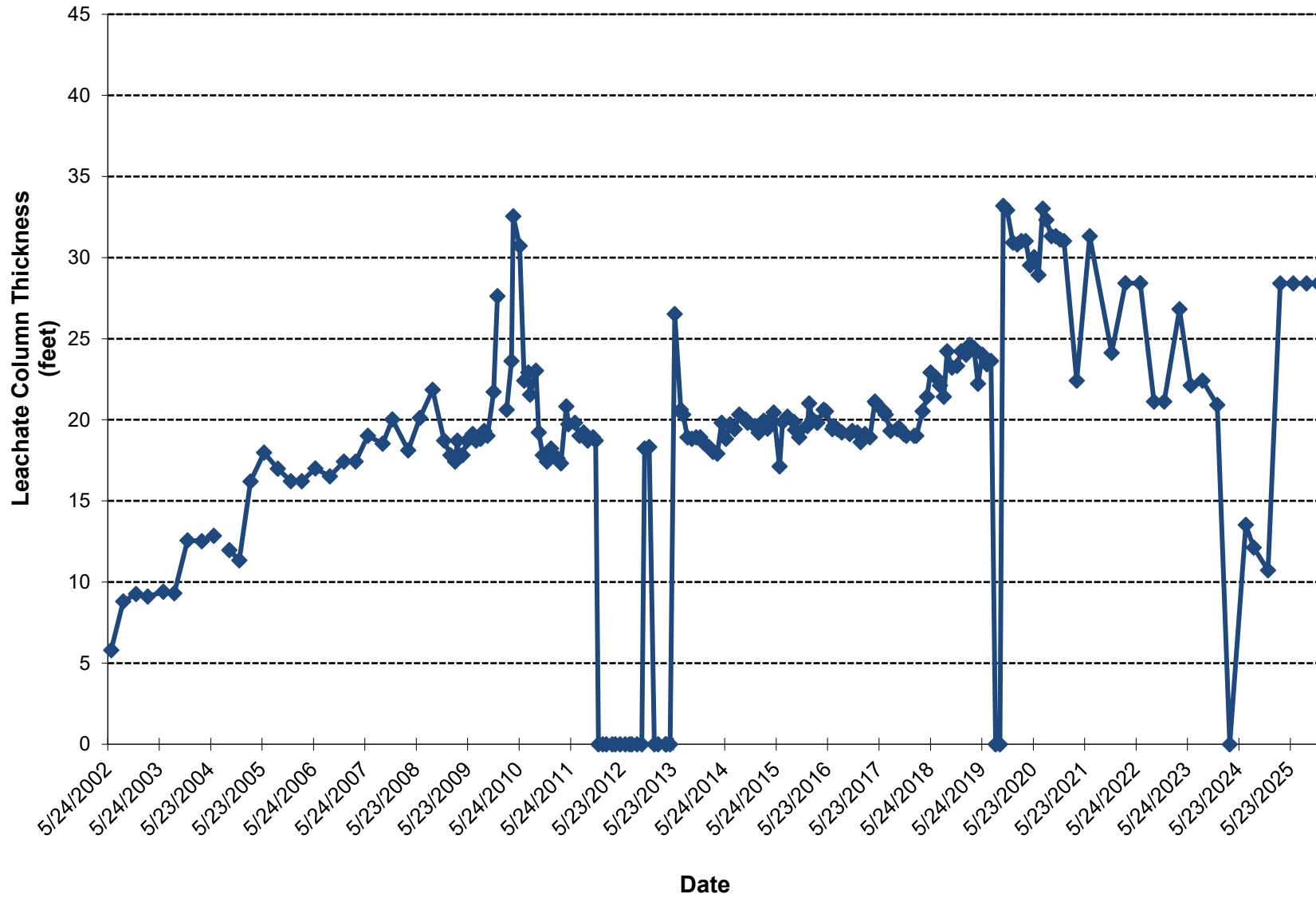
Wayne-Ringgold-Decatur Sanitary Landfill
PZ-2



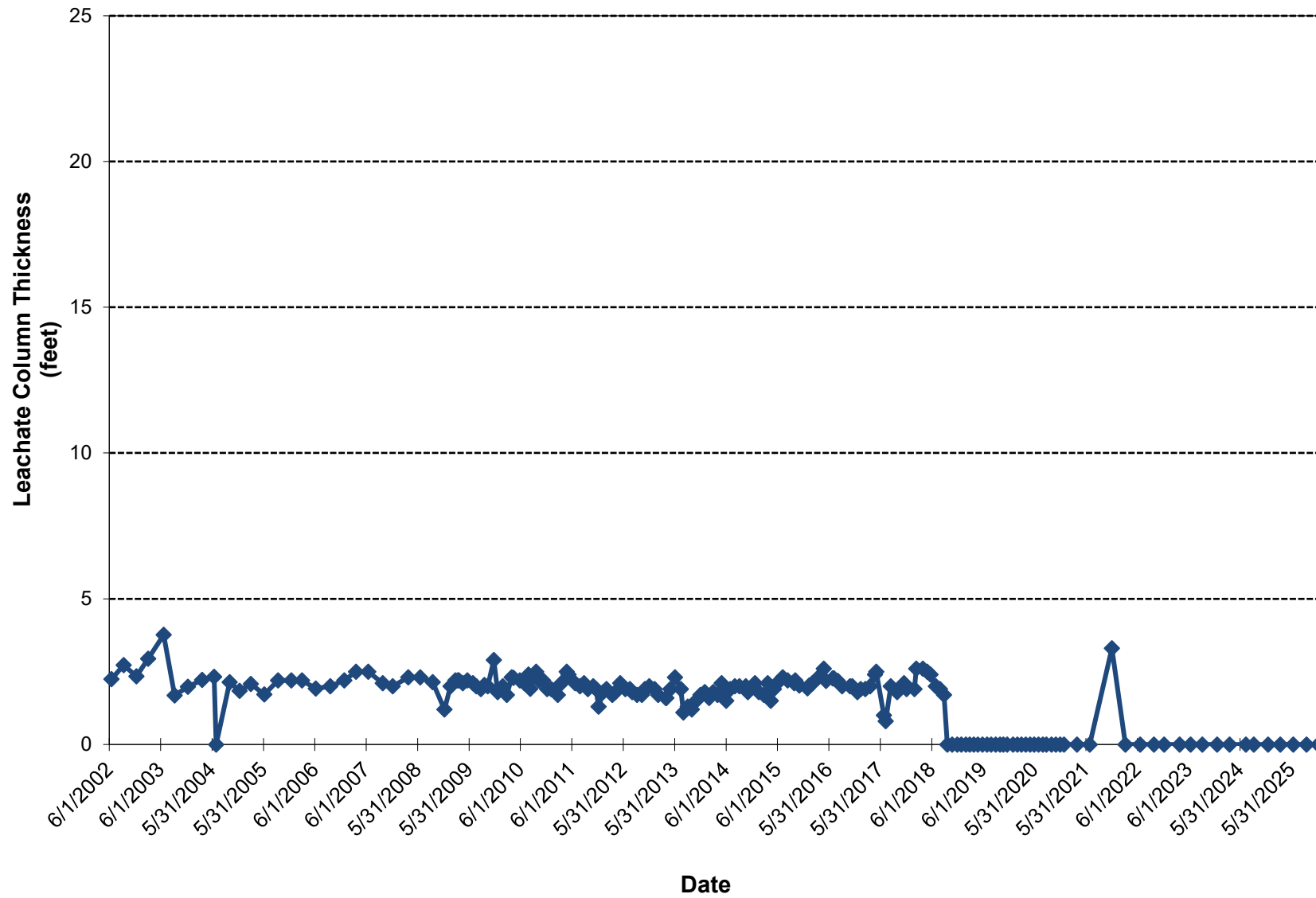
Wayne-Ringgold-Decatur Sanitary Landfill
PZ-3



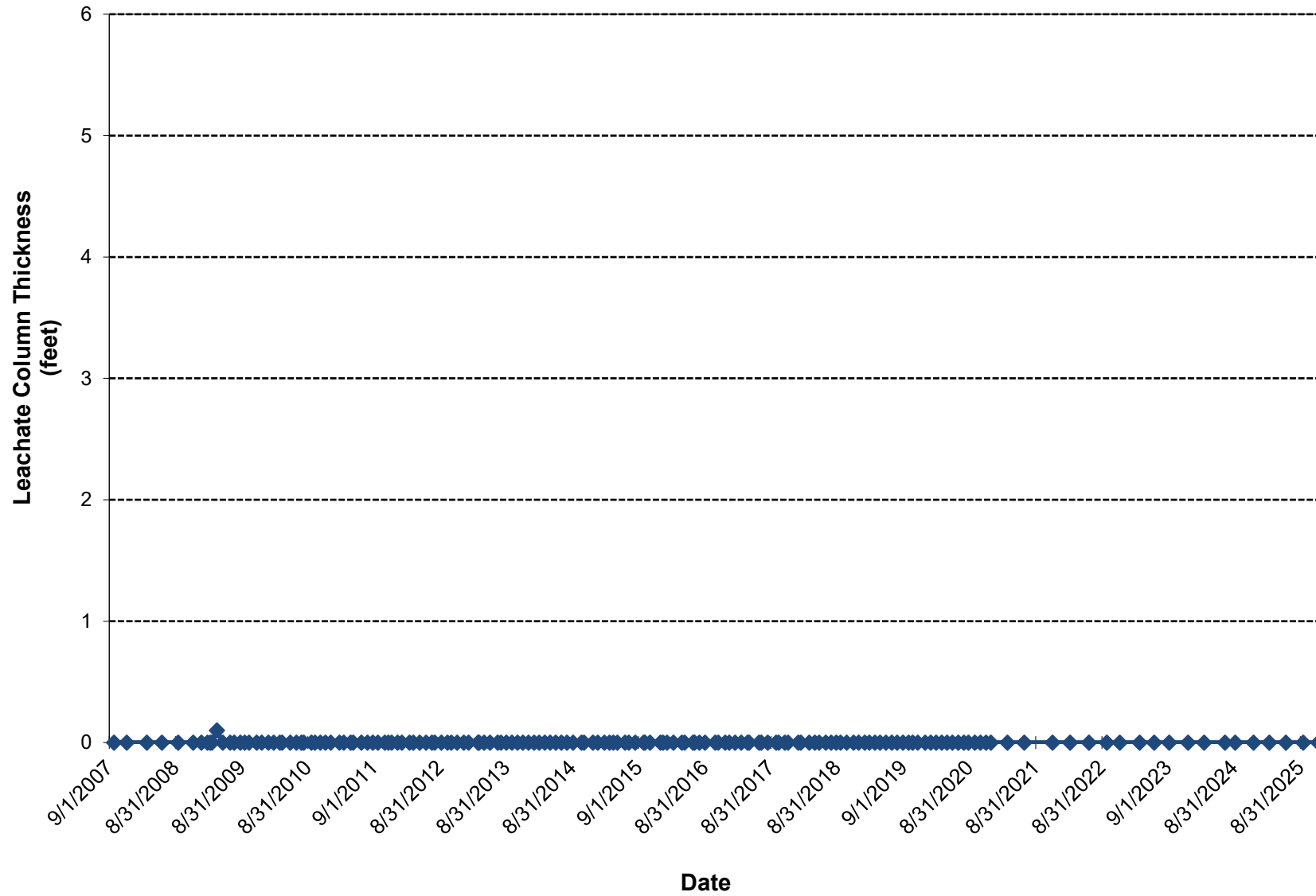
Wayne-Ringgold-Decatur Sanitary Landfill
PZ-5



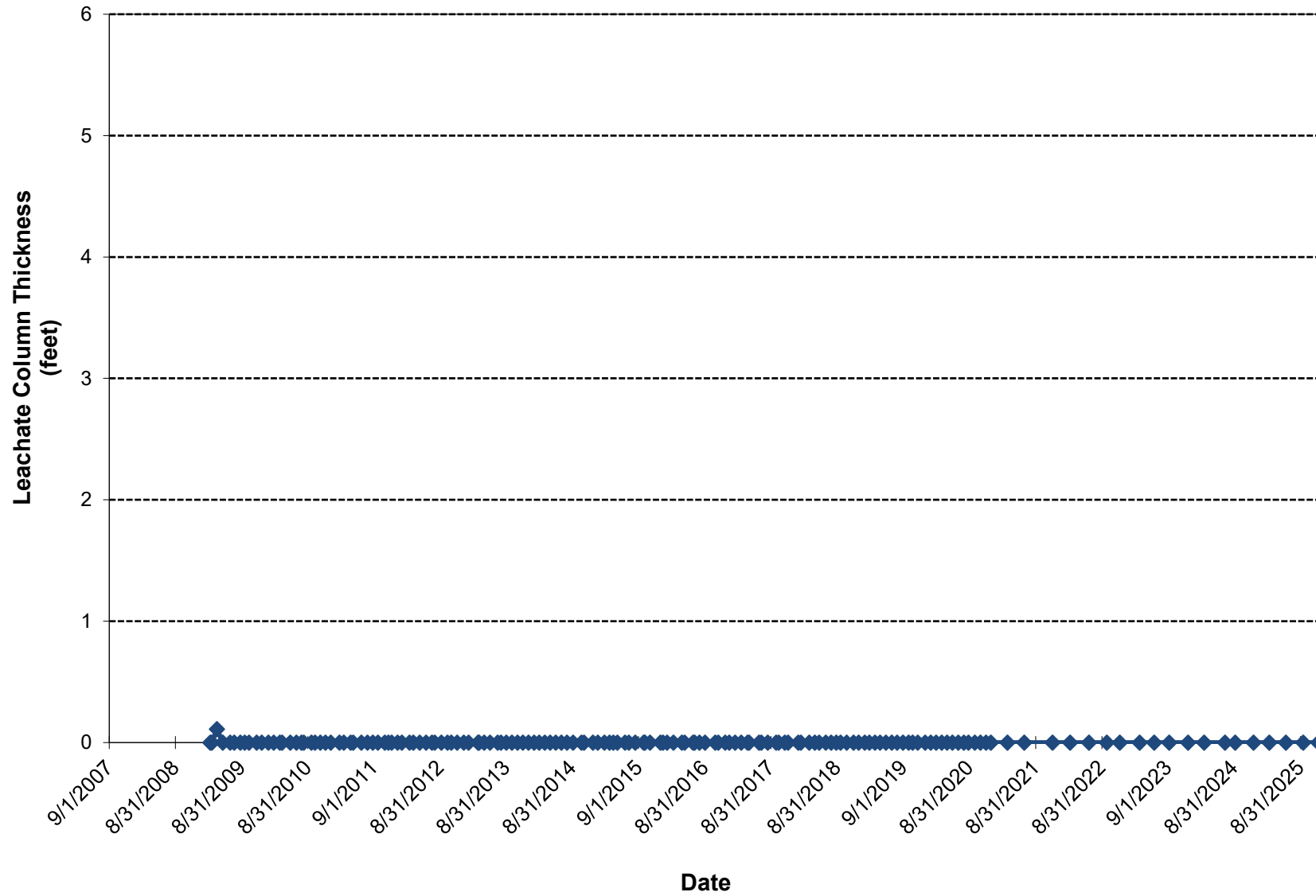
Wayne-Ringgold-Decatur Sanitary Landfill
PZ-7



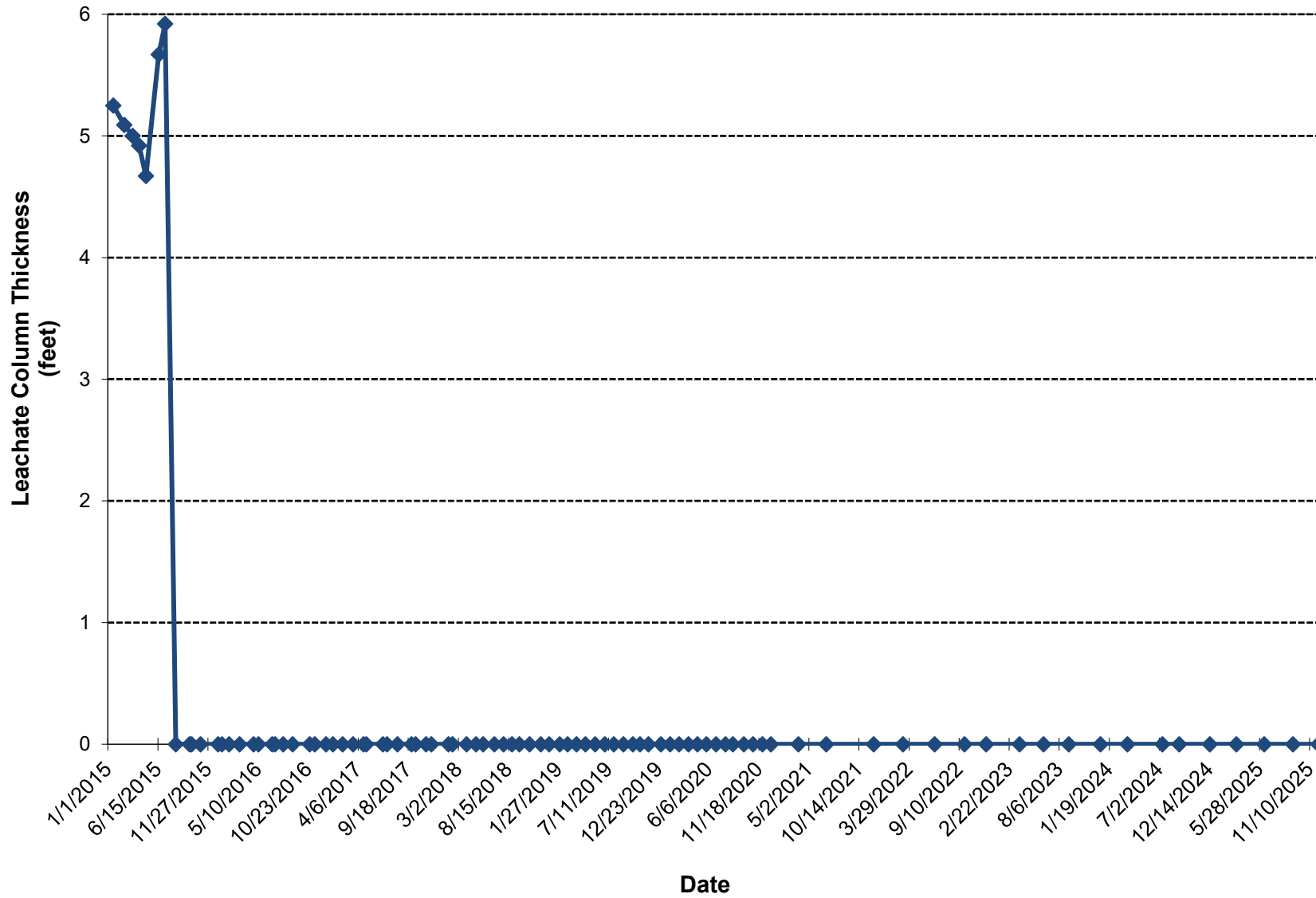
Wayne-Ringgold-Decatur Sanitary Landfill
LPZ-1



Wayne-Ringgold-Decatur Sanitary Landfill
LPZ-2



Wayne-Ringgold-Decatur Sanitary Landfill
LPZ-3



Appendix F

2025 Landfill Gas Annual Report

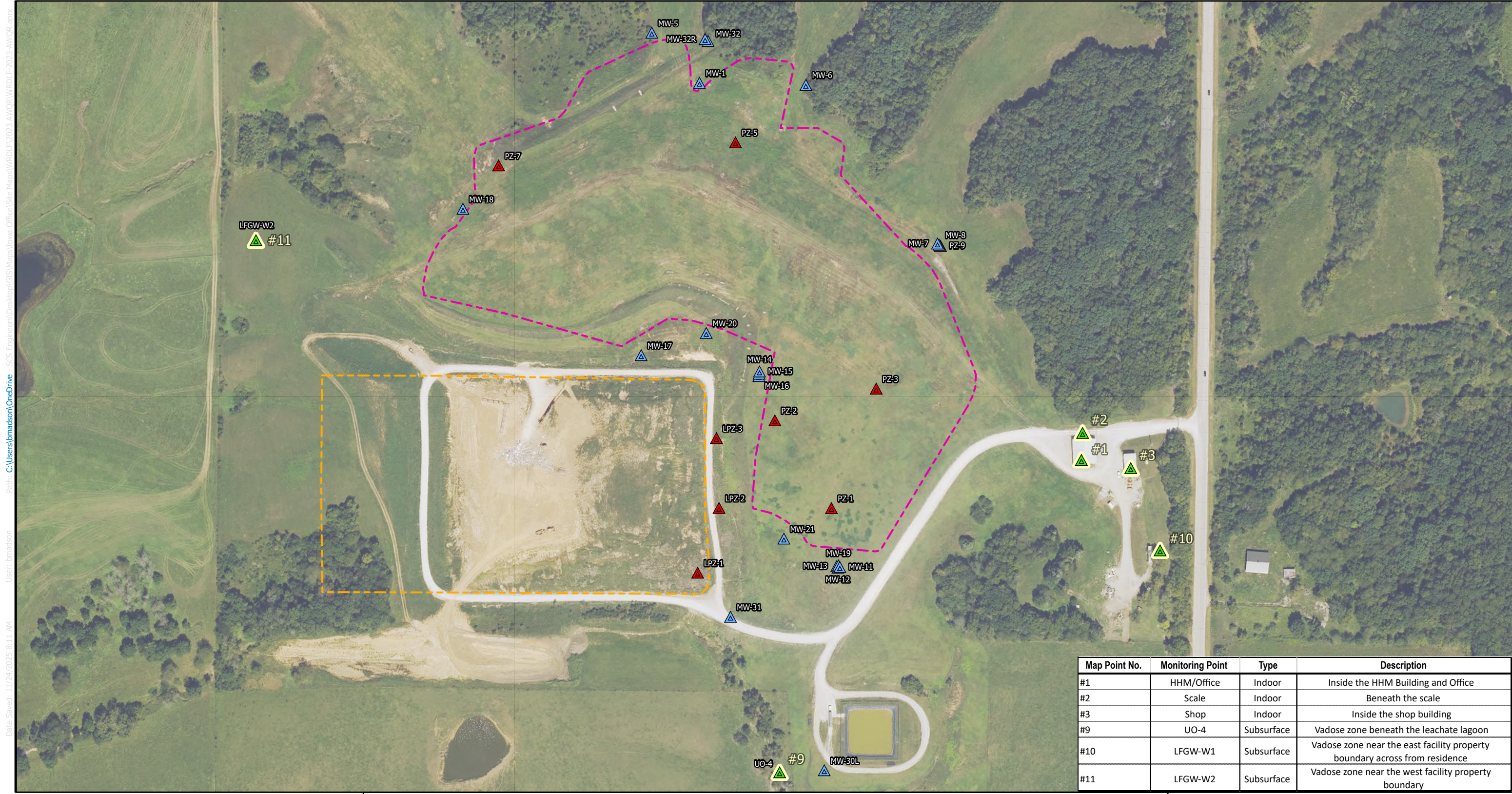
Table F1
Gas Monitoring Summary
2025 Gas Monitoring Report
WRD County Landfill
Permit No. 27-SDP-01-75P

Monitoring Points				Methane Results (% LEL)							
Name		Type	Description	1/16/2025	S (Y/N)	5/8/2025	S (Y/N)	9/30/2025	S (Y/N)	11/10/2025	S (Y/N)
#1	HHM/Office	Indoor	HHM Building and Office	0%		0%		0%		0%	
#2	Scale	Indoor	Scale	0%		0%		0%		0%	
#3	Shop	Indoor	Shop	0%		0%		0%		0%	
#9	UO-4	Subsurface	UO-4	0%		0%		0%		0%	
#10	LFGW-W1	Subsurface	LFGW-W1 (subsurface W1)	0%	NM	0%	N	0%	NM	0%	N
#11	LFGW-W2	Subsurface	LFGW-W2 (subsurface W2)	0%	N	0%	Y	0%	NM	0%	N

Notes:

S(Y/N) - Was screen submerged, yes or no or blank is non-applicable.

NM - Indicates not measured.



C:\Users\bmadsen\OneDrive - SCS Engineers\Desktop\GIS\Map\Iowa Office\Site Maps\WDDLE 2022 AWOP\WDDLE 2022 AWOP.aprx
Path: C:\Users\bmadsen\OneDrive - SCS Engineers\Desktop\GIS\Map\Iowa Office\Site Maps\WDDLE 2022 AWOP\WDDLE 2022 AWOP.aprx
User: bmadsen
Date Saved: 11/24/2025 8:11 AM



Methane Monitoring Network

Legend

- Methane Monitoring Point
- Landfill Gas Well
- Monitoring Well
- Groundwater Underdrain
- Leachate Monitoring Well
- Approximate Waste Boundary - South MSWLF Unit
- Approximate Waste Boundary - North MSWLF Unit
- Approximate Property Boundary

Wayne-Ringgold-Decatur
Sanitary Landfill
Grand River, IA
Project No: 27224309.26
Drawing Date: January 2026

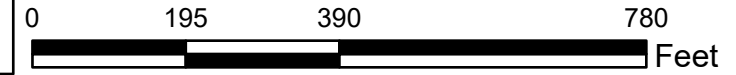
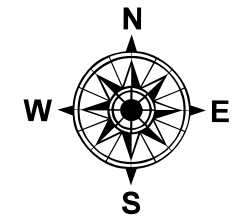


Figure 1



Appendix G

Standards History Graphs

