

West Des Moines, IA

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

SUBJECT: Wayne-Ringgold-Decatur County Sanitary Landfill, North MSWLF Unit - 27-SDP-01-75P - 2025 Annual Water Quality Report TRANSMITTAL ID: 00002

PURPOSE: For your approval VIA: Info Exchange

FROM

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TO

NAME	COMPANY	EMAIL	PHONE
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REMARKS: Mike -

Please find for download the Wayne-Ringgold-Decatur County Sanitary Landfill, North MSWLF Unit 2025 Annual Water Quality Report. Please let us know if you have any questions or comments.

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DESCRIPTION OF CONTENTS

QTY	DATED	TITLE	NOTES
1	1/29/2026	WRD County Sanitary Landfill, North MSWLF Unit - 27-SDP-01-75P - 2025 Annual Water Quality Report 01.29.2026.pdf	

Transmittal

DATE: 1/29/2026
TRANSMITTAL ID: 00002

COPIES:

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Doug Collier

(Wayne Ringgold Decatur Solid Waste Management
Commission)
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Semir Omerovic
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Sean Marczewski

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
Wayne-Ringgold-Decatur County Sanitary Landfill
North MSWLF Unit (Closed)
Permit No. 27-SDP-01-75P

Dear Mike:

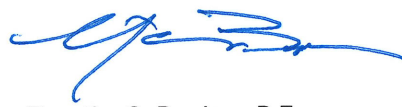
SCS Engineers, on behalf of the Wayne-Ringgold-Decatur County Solid Waste Management Commission, has completed the required groundwater monitoring and statistical evaluation for the Wayne-Ringgold-Decatur County Sanitary Landfill (Landfill) North Municipal Solid Waste Landfill Unit (North MSWLF Unit) for the year 2025. Services were performed in general accordance with Iowa Administrative Code (IAC) 567-113.10 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.

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

Sincerely,



Semir Omerovic
Associate Professional
SCS Engineers



Timothy C. Buelow, P.E.
Senior Project Advisor
SCS Engineers

SO/TCB

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



2025 Annual Water Quality Report

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

Prepared for:

Wayne Ringgold Decatur County Solid Waste Management
Commission

SCS ENGINEERS

27224309.26 | January 2026

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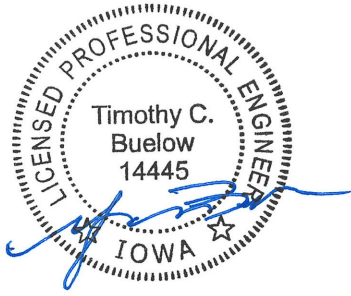
CERTIFICATION

Prepared by:  Date: January 29, 2026

Typed: Semir Omerovic

Reviewed by:  Date: 1/29/2026

Typed: Timothy C. Buelow, P.E.

	I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa. <u></u> <u>1/29/2026</u> Timothy C. Buelow, P.E. (date) Iowa License No. <u>14445</u> My license renewal date is: <u>12/31/2027</u> Pages or sheets covered by this seal: All except Appendix B-1.
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EXECUTIVE SUMMARY

ES.1 PERIOD OF REPORT COVERAGE

SCS Engineers (SCS), on behalf of the Wayne-Ringgold-Decatur County Solid Waste Management Commission, has completed the required groundwater sampling of the closed North municipal solid waste landfill unit (North MSWLF unit) at the Wayne-Ringgold-Decatur County Sanitary Landfill (Landfill). The purpose of this Annual Water Quality Report (AWQR) is to document and statistically evaluate the groundwater sampling results since the 2024 AWQR including the May and November 2025 semi-annual sampling events. This AWQR was prepared in accordance with the applicable requirements of Iowa Administrative Code (IAC) 567-113, the Landfill permit, and current requirements for implementation of the Hydrologic Monitoring System Plan (HMSP).

ES.2 REPORT PRIORITY

The following summarizes report priorities associated with groundwater compliance at the North MSWLF unit:

- 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: Closed
- Types of waste accepted: None, MSWLF unit closed. Previously accepted MSW, C&D, and Special Wastes.
- Applicable IAC rules: 2002 567-113.3(4), 113.19, 113.20, 113.21, 113.26(4), and 2009 567-113.2(5), 113.10(6), 113.10(7), 113.10(8), 113.10(9).

ES.4 COMMENTS

The following summarizes points of special emphasis:

There were two new and nine ongoing well/detected constituent pairs with statistically significant increases (SSIs) above background during this reporting period as summarized in **Table 7**. The monitoring wells are in the assessment or corrective action monitoring programs and do not require retesting. Therefore, the SSIs were not confirmed. Corrective action monitoring will continue for monitoring well MW-21, assessment monitoring will continue for monitoring wells MW-1, MW-17, MW-19, and MW-20, and background for monitoring well MW-8.

The measured cobalt concentrations remain at a statistically significant level (SSL) above the site-specific groundwater protection standard (GWPS) in monitoring well MW-21.

Bracketing well MW-32R was sampled for vinyl chloride during this reporting period. The vinyl chloride concentrations were detected below the GWPS during both sampling events.

1.0 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
ISE = Insufficient Sampling Events
LEL = Lower Explosive Limit
LCL = Lower Confidence Limit
LCS = Laboratory Control Sample
LCSD = Laboratory Control Sample Duplicate
LN = Lognormal
MCL = EPA Maximum Contaminant Level
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

2.0 SITE BACKGROUND

2.1 SITE LOCATION

The Landfill property is depicted in 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 west of Decatur City, 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.

2.2 FACILITY

The Landfill began trench-fill landfiling around 1973 and has been a permitted facility since 1975. The Landfill has actively been receiving waste since that time. The Landfill is comprised of two separate disposal areas: the North MSWLF unit, which was certified by the 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, Phase 2, Phase 3, and Phase 4 cells. The North MSWLF unit received waste from around 1973 until September 4, 2007.

2.3 GEOLOGY AND HYDROGEOLOGY OF THE SITE

In the document entitled Hydrogeological Assessment Report, dated July 22, 2004, prepared by Barker Lemar Engineering Consultants (Doc #42526), 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.

The December 1991 Green Environmental Services (GES) report, The Hydrogeologic Investigation Report and Hydrologic Monitoring System Plan for the Wayne-Ringgold-Decatur County Sanitary Landfill, stated approximately six to seven and a half feet of loess are present naturally at the surface and underlain by thick glacial till with intermittent sand lenses dispersed in the till layer. The glacial till layer was estimated to be between 80 feet 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 (GES, 1991). 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 sea level (asl) 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 (GES, 1991).

According to the Hydrogeological Assessment Report dated July 22, 2004, the following aquifers were identified:

An upper groundwater table is present in the layer of glacial till above the alluvial layer. 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.” (GES, 1991)
Recent groundwater measurements in the proposed horizontal expansion area appear
to support this statement.*

3.0 FIGURES DISCUSSION

The following figures are attached.

3.1 FIGURE 1 – APPROVED MONITORING NETWORK

The Landfill property and hydrologic monitoring system plan (HMSP) monitoring network is depicted in **Figure 1**. **Figure 1** indicates the locations of each monitoring well and its respective monitoring program as of the beginning of this reporting period.

3.2 FIGURE 2 – GROUNDWATER CONTOURS

A groundwater contour map based on water levels measured during the May 2025 groundwater sampling event is included as **Figure 2**. The shallow flow groundwater contours, which represent the surficial water table elevations, illustrate flow generally in a southeasterly direction converging toward the leachate storage lagoon area. However, a northerly component to groundwater flow toward the ravines exists in the northern portion of the property.

4.0 STANDARDS HISTORY GRAPHS

Standards history graphs are included in Appendix E. Standards history graphs for the Appendix I metals are included.

The prediction limits were below the statewide standards (SWS) with the exception of cobalt and thallium during this reporting period. It should be noted that site-specific standard for cobalt was utilized in assessment monitoring and corrective action statistical evaluation. Thallium has only been detected four times in background monitoring well MW-8 since low-flow sampling began in 2015. The most recent detection occurred during the 2nd 2023 semi-annual statistical evaluation and is the only detection higher than the SWS. The total suspended solids concentration in background monitoring well MW-8 does not appear to have affected the thallium concentration; therefore, the data point was not excluded from statistical analyses during this reporting period.

5.0 QA/QC SUMMARY

The quality assurance/quality control (QA/QC) program for the North MSWLF unit follows 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 and where such standards exist. SCS then conducted QA/QC data validation of the produced data, which included review of sample handling, analytical sensitivity, and 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.

6.0 DATA EVALUATION AND SUMMARY

Assessment/corrective action monitoring statistical evaluations in accordance with the requirements of IAC 567-113.10(6) were conducted for the groundwater analytical data collected during the 2025 reporting period. The statistical evaluation output for samples collected during this reporting period are in Appendix D (Statistical Methodology and Output) of this report.

Groundwater monitoring for the North MSWLF unit consists of five monitoring points located generally along the north and south sides of the MSWLF unit, with the background well located on the northeast side of the MSWLF unit.

6.1 DATA EVALUATION

One volatile organic compound (VOC), benzene in MW-1, was detected above the reporting limit in the HMSP monitoring well network, and multiple site-wide maximum metal concentrations were measured during the 2025 semi-annual sampling events in monitoring wells MW-1, MW-8, and MW-21. A majority of the site-wide maximum concentrations were associated with monitoring wells MW-8 and MW-21. Monitoring well MW-1 had one site-wide maximum concentration for lead and a second site-wide maximum concentration for benzene.

The only VOC detection in the HMSP monitoring wells above the reporting limit occurred in assessment monitoring well MW-1; concentrations remain below the GWPS and monitoring wells surrounding MW-1 remain generally unimpacted with the exception of bracketing monitoring well MW-32R sampled for vinyl chloride. Vinyl chloride was detected in monitoring well MW-32R in 2025 samples at concentrations below the GWPS. J flag VOC concentrations were also measured in samples from monitoring wells MW-1 and MW-21.

6.2 TRENDING IN ASSESSMENT/CORRECTIVE ACTION MONITORING WELLS

Statistically significant trends evaluation was completed for monitoring well – constituent pairs by Mann-Kendall analysis during this reporting period. The trend analyses are included in Attachment A-4 and B-4 of **Appendix D** for the 1st and 2nd 2025 statistical evaluations, respectively. No statistically significant trends were measured during the 1st and 2nd 2025 statistical evaluations.

7.0 RECOMMENDATIONS

7.1 SITE IMPACT ON GROUNDWATER

Cobalt concentrations measured in MW-21 since the implementation of low-flow sampling methodology in 2015 are significantly lower than concentrations measured prior to low-flow sampling methodology. The unrepresentative data was removed from statistical consideration beginning with the 2nd 2019 semi-annual statistical evaluation. Although the cobalt concentrations have lowered significantly, they are still slightly elevated above the site-specific GWPS. The elevated cobalt concentrations in MW-21 are bracketed at this time.

7.2 PROPOSED MONITORING

Anticipated groundwater sampling for the 2026 reporting period is shown in Table 2.

7.3 PROPOSED MONITORING WELL CHANGES

No changes to the monitoring wells are recommended at this time.

Tables

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

Monitoring Well	Formation ⁽¹⁾	Current Monitoring Program	Change for Next Sampling Event	Constituents Above Background	Constituents with Current and/or Historical SSL	Total Number of Samples in Each Monitoring Program Inorganic/Organic		
						Detection	Assessment	Corrective Action
HMSP Monitoring Points								
MW-8	Till	Background	No Change	Not Applicable	Not Applicable	21/31		
MW-1	Clay	Assessment	No Change	Arsenic, Barium, Lead, Benzene	None		21/37	
MW-17	Till	Assessment	No Change	Barium	None		21/36	
MW-19	Alluvium and fill	Assessment	No Change	Barium	None		20/35	
MW-20	Till	Assessment	No Change	Barium	None		21/35	
MW-21	Alluvium and fill	Corrective Action	No Change	Arsenic, Barium, Cadmium, Cobalt	Cobalt			21/37
Other Monitoring Points								
MW-5	Till	Water Level						
MW-6	Till	Water Level						
MW-7	Till	Water Level						
MW-11	Till	Water Level						
MW-12	Till	Water Level						
MW-13	Limestone	Water Level						
MW-14	Till	Water Level						
MW-15	Alluvium and fill	Water Level						
MW-16	Till with an intratill sand lens	Water Level						
MW-18	Till	Water Level						
MW-30L	Clay	South MSWLF unit HMSP and plume delineation for SSL constituent in MW-21						
MW-31	Clay	South MSWLF unit HMSP and plume delineation for SSL constituent in MW-21						
MW-32	Till	Plume delineation for SSL constituent in MW-1						
MW-32R	Till	Plume delineation for SSL constituent in MW-1						

Notes:

⁽¹⁾ Obtained from screened interval on boring logs.

SSL = Statistically Significant Level above groundwater protection standard.

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

Monitoring Well	Recent Sampling Dates and Constituents		Upcoming Sampling Dates and Constituents		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
HMSP						
MW-8	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Not Applicable	Not Applicable
MW-1	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	6/5/2008, 8/5/2013, 2/26/2018, 4/6/2023	2028
MW-17	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	6/5/2008, 8/5/2013, 2/26/2018, 4/6/2023	2028
MW-19	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	6/5/2008, 8/5/2013, 2/26/2018, 4/6/2023	2028
MW-20	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	3/12/2009, 8/5/2013, 2/26/2018, 4/6/2023	2028
MW-21	Appendix I, beta-BHC, 4,4'-DDT, Methoxychlor, TSS	Appendix I, 4,4'-DDT, Methoxychlor, TSS	Appendix I, 4,4'-DDT, Methoxychlor, TSS	Appendix I, 4,4'-DDT, Methoxychlor, TSS	6/5/2008, 8/5/2013, 2/26/2018, 4/6/2023	2028
Bracketing						
MW-32R	Cobalt, TSS, Vinyl Chloride	Cobalt, TSS, Vinyl Chloride	Cobalt, TSS, Vinyl Chloride	Cobalt, TSS, Vinyl Chloride	NA	NA

Notes:

NA - Not Applicable

TSS - Total Suspended Solids

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

Compliance with:	2022	2023	2024	2025	2026
567 IAC 113.10(2)"f"(1) high and low water levels	Completed	Completed	Completed	Included ⁽²⁾	Scheduled
567 IAC 113.10(2)"f"(2) changes in the hydrologic setting and flow paths	Completed	Completed	Completed	Included ⁽¹⁾	Scheduled
567 IAC 113.10(2)"f"(3) well depths	Completed	Completed	Completed	Included ⁽²⁾	Scheduled
567 IAC 113.10(2)"f"(4) well recharge rates and chemistry	Completed		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
North MSWLF Unit
WRD County Landfill
Permit No. 27-SDP-01-75C

Well	Top of Casing	Top of Screen	Total Depth		Date of Measurements		Maximum Depth Discrepancy (ft)
					5/8/2025	11/10/2025	
MW-8	1093.45	1063.3	45.5	Groundwater Level (ft)	19.31	19.08	-0.4
				Groundwater Elevation (Ft MSL)	1074.14	1074.37	
				Measured Well Depth (ft)	45.9	NM	
				Submerged screen	Y	Y	
MW-1	1098.97	1082.0	28.5	Groundwater Level (ft)	15.94	18.91	-1.8
				Groundwater Elevation (Ft MSL)	1083.03	1080.06	
				Measured Well Depth (ft)	30.3	30.3	
				Submerged screen	Y	N	
MW-17	1054.93	1042.3	28.0	Groundwater Level (ft)	5.85	5.82	0.1
				Groundwater Elevation (Ft MSL)	1049.08	1049.11	
				Measured Well Depth (ft)	27.9	28.0	
				Submerged screen	Y	Y	
MW-19	1050.61	993.3	68.0	Groundwater Level (ft)	25.59	26.30	0.0
				Groundwater Elevation (Ft MSL)	1025.02	1024.31	
				Measured Well Depth (ft)	68.0	NM	
				Submerged screen	Y	Y	
MW-20	1053.43	1040.8	28.0	Groundwater Level (ft)	3.75	4.61	-0.1
				Groundwater Elevation (Ft MSL)	1049.68	1048.82	
				Measured Well Depth (ft)	28.1	28.1	
				Submerged screen	Y	Y	
MW-21	1034.74	1024.9	25.4	Groundwater Level (ft)	5.01	6.68	0.4
				Groundwater Elevation (Ft MSL)	1029.73	1028.06	
				Measured Well Depth (ft)	25.0	25.6	
				Submerged screen	Y	Y	

Comments:

- 1) NM = Not Measured; monitoring wells with submersible pumps are only measured once every 5 years. Monitoring well MW-8 was measured during the 2025 reporting period and will be measured next during the 2030 reporting period.
- 2) Measured well depths were within 1.0 foot of the installed depth with the following exception:
MW-1: Monitoring well MW-1 had an installed well depth of 28.5 feet and has consistently been measured deeper than the installed well depth. It should be noted that this monitoring well is a 4-inch diameter well that has some evidence of frost heaving.

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

Interwell Background/GWPS (MW-8)

Constituent	Units	Samples	Detections	Min	Max	Mean	Background Level	Statistical Test	GWPS	Source
Inorganics										
Antimony (Sb)	mg/L	21	11	0.000319*	0.00208	0.0010028	0.002154	PL (P)	0.006	MCL
Arsenic (As)	mg/L	21	15	0.000564*	0.00621	0.0013138	0.00621	PL (NP)	0.01	MCL
Barium (Ba)	mg/L	21	21	0.01745	0.0408	0.0305524	0.04272	PL (P)	2.0	MCL
Beryllium (Be)	mg/L	21	1	0.0005 (1/2 RL)	0.000501*	0.0005000	0.000501	PL (NP)	0.004	MCL
Cadmium (Cd)	mg/L	21	12	0.00005 (1/2 RL)	0.000473	0.0001445	0.0003642	PL (P)	0.005	MCL
Chromium (Cr)	mg/L	21	3	0.00225*	0.0119	0.0029962	0.0119	PL (NP)	0.1	MCL
Cobalt (Co)	mg/L	21	21	0.0001355*	0.00987	0.0052992	0.01095	PL (P)	0.01095	SSS
Copper (Cu)	mg/L	21	2	0.00117*	0.0025 (1/2 RL)	0.0023798	0.0025	PL (NP)	1.3	MCL
Lead (Pb)	mg/L	21	6	0.0001755*	0.00104	0.0003045	0.00104	PL (NP)	0.015	MCL
Nickel (Ni)	mg/L	21	21	0.003175*	0.0409	0.0230388	0.04456	PL (P)	0.1	SWS
Selenium (Se)	mg/L	21	7	0.00108*	0.010455	0.0029638	0.01046	PL (NP)	0.05	MCL
Silver (Ag)	mg/L	21	4	0.000191*	0.000898*	0.0004820	0.000898	PL (NP)	0.1	SWS
Thallium (Tl)	mg/L	21	4	0.000046*	0.00573	0.0007962	0.00573	PL (NP)	0.00573	SSS
Vanadium (V)	mg/L	21	5	0.0003775*	0.00396*	0.0022905	0.00396	PL (NP)	0.035	SWS
Zinc (Zn)	mg/L	21	4	0.005 (1/2 RL)	0.0541	0.0142714	0.0541	PL (NP)	2.0	SWS

Notes:

Background levels based on calculated prediction limits or reporting limit, as applicable.

* - J Flag, concentration was 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:

- 1) **Water quality results and effectiveness of the statistical data evaluation criteria:** Statistical evaluations consist of prediction limits, double quantification rule, and confidence intervals/confidence bands, as appropriate, and do not use data from the background wells for development of the confidence intervals or confidence bands.
- 2) **Changes to the previous statistical method during reporting period:** There were no changes to the statistical method during the 2025 reporting period.
- 3) **Re-sampling strategy:** There is no retesting strategy for this MSWLF unit as all compliance wells are either in assessment or corrective action monitoring programs.
- 4) **Justification for data exclusion:** Due to the effect of elevated TSS on inorganic concentrations, inorganic data measured prior to the installation of low-flow sampling apparatuses during the 2015 reporting period were no longer considered representative of groundwater quality and removed from statistical consideration beginning with the 2019 reporting period.

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

Well	Constituent	Units	Most Recent Result	Background Standard
MW-1	Lead	mg/L	< 0.0005	0.00104
MW-21	Cadmium	mg/L	< 0.0002	0.0003642

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) A single exceedance in an assessment monitoring well is recorded above as an SSI. Retesting is not performed as these monitoring wells are not in the detection monitoring program.

Comments:

- 1) **Problems with the current detection network:** None.
- 2) **Schedule to implement remedies:** Not applicable.
- 3) **Alternative constituent or sample frequency changes:** None.
- 4) **Significant changes to calculated prediction limits:** Not applicable.
- 5) **Resampling strategy:** Not applicable.

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

Well	Constituent	Units	Most Recent Result	Background Standard	Lower Confidence Limit	GWPS	Sample Dates		
							Initial Exceedance	Resample(s)	5 th background sample
MW-1	Arsenic	mg/L	0.00442	0.00621	0.000401	0.01	9/18/2024	NM	9/25/2017
	Barium	mg/L	0.49	0.04272	0.3682	2	8/22/2019	NM	9/25/2017
	Lead	mg/L	< 0.0005	0.00104	0.00025	0.015	6/5/2008	NM	9/25/2017
	Benzene	µg/L	0.589	< 0.5	0.3316	5	6/5/2008	NM	9/18/2009
MW-17	Barium	mg/L	0.0497	0.04272	0.04701	2	8/22/2019	NM	9/25/2017
MW-19	Barium	mg/L	0.127	0.04272	0.1018	2	8/22/2019	NM	9/25/2017
MW-20 [†]	Barium	mg/L	0.0819	0.04272	0.07373	2	8/22/2019	NM	9/25/2017
MW-21	Arsenic	mg/L	0.0101	0.00621	0.00378	0.01	9/18/2024	NM	9/25/2017
	Barium	mg/L	0.592	0.04272	0.3128	2	8/22/2019	NM	9/25/2017
	Cadmium	mg/L	< 0.0002	0.0003642	0.00005	0.005	8/22/2019	NM	9/25/2017
	Cobalt	mg/L	0.0162	0.01095	0.01211	0.01099	8/22/2019	NM	9/25/2017

Notes:

1) A single exceedance in an assessment monitoring well is recorded above as an SSI. Retesting is not performed as the monitoring wells are not in the detection monitoring program.

2) Ongoing SSI is defined as one or more SSIs for a monitoring well/constituent pair in both the previous and current reporting periods.

[†] - Monitoring well included a duplicate sample during the most recent sampling event; therefore, the most recent result concentration is an average of the samples.

NM - Not Measured; Resampling of constituents with indicated statistically significant increases (SSIs) above background was not part of the statistical methodology performed.

 Shaded indicates a newly identified SSI, as defined under Table 6.

Comments:

1) **Problems with the current assessment network:** None.

2) **Proposed remedies:** None.

3) **Alternative constituent or sample frequency changes:** None.

4) **Plume delineation strategies:** None.

5) **Property owner notifications:** Not applicable.

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

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	
MW-21	Cobalt	mg/L	0.0162	0.01904	0.01139	2011	NA	NA	NA	NA	NA	NA

Notes:

NA - Indicates that the constituent-monitoring point dataset has not satisfied the statistical requirements of IAC 567-113.10(9)"e"(2), which is identified by the entire confidence interval or confidence band, as appropriate, being below the GWPS.

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

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 #112322).

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

Key

	= SSI
	= SSL (Current and Historical)

Well	Constituent	Spring 2018	Fall 2018	Spring 2019	Fall 2019	Spring 2020	Fall 2020	Spring 2021	Fall 2021	Spring 2022	Fall 2022	Spring 2023	Fall 2023	Spring 2024	Fall 2024	Spring 2025	Fall 2025
MW-1	Arsenic																
	Barium																
	Lead																
	1,1-Dichloroethane																
	Benzene																
	Toluene																
	Vinyl Chloride																
MW-17	Barium																
MW-19	Barium																
	Beryllium																
	Cadmium																
	Copper																
	Lead																
	Zinc																
	Sulfide																
MW-20	Barium																
	Copper																
MW-21	Arsenic																
	Barium																
	Cadmium																
	Cobalt																
	Nickel																
	1,4-Dichlorobenzene																
	Benzene																
	cis-1,2-Dichloroethene																
	4,4'-DDE																
	4,4'-DDT																
	Beta-BHC																
	Endrin																
	Methoxychlor																

Comments:

- 1) Background was updated during the 2nd 2019 semi-annual statistical evaluation; therefore, arsenic in monitoring well MW-21 was approved in permit correspondence dated February 18, 2021 to be removed as a historical SSL beginning with the 2021 reporting period (Doc #99792).
- 2) Vinyl chloride in MW-1 has satisfied remedy completion criteria and is no longer considered an SSL.
- 3) Retesting is not performed in assessment and pre-corrective action monitoring wells as these monitoring wells are not in the detection monitoring program.

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

Well	Current SSL	Trend	Calculated S	Critical S	Total N	Projected Date to Completion*
MW-21	Cobalt	Increasing	4	21	8	NA

Notes:

N - Number of Samples.

* - To satisfy IAC 113.10(9)"e"; Projected Date to Completion was based on utilizing the Sen's slope calculation to determine when the concentration would be below the GWPS for eight sampling events and remain there for three consecutive years.

S - Mann-Kendall Statistic.

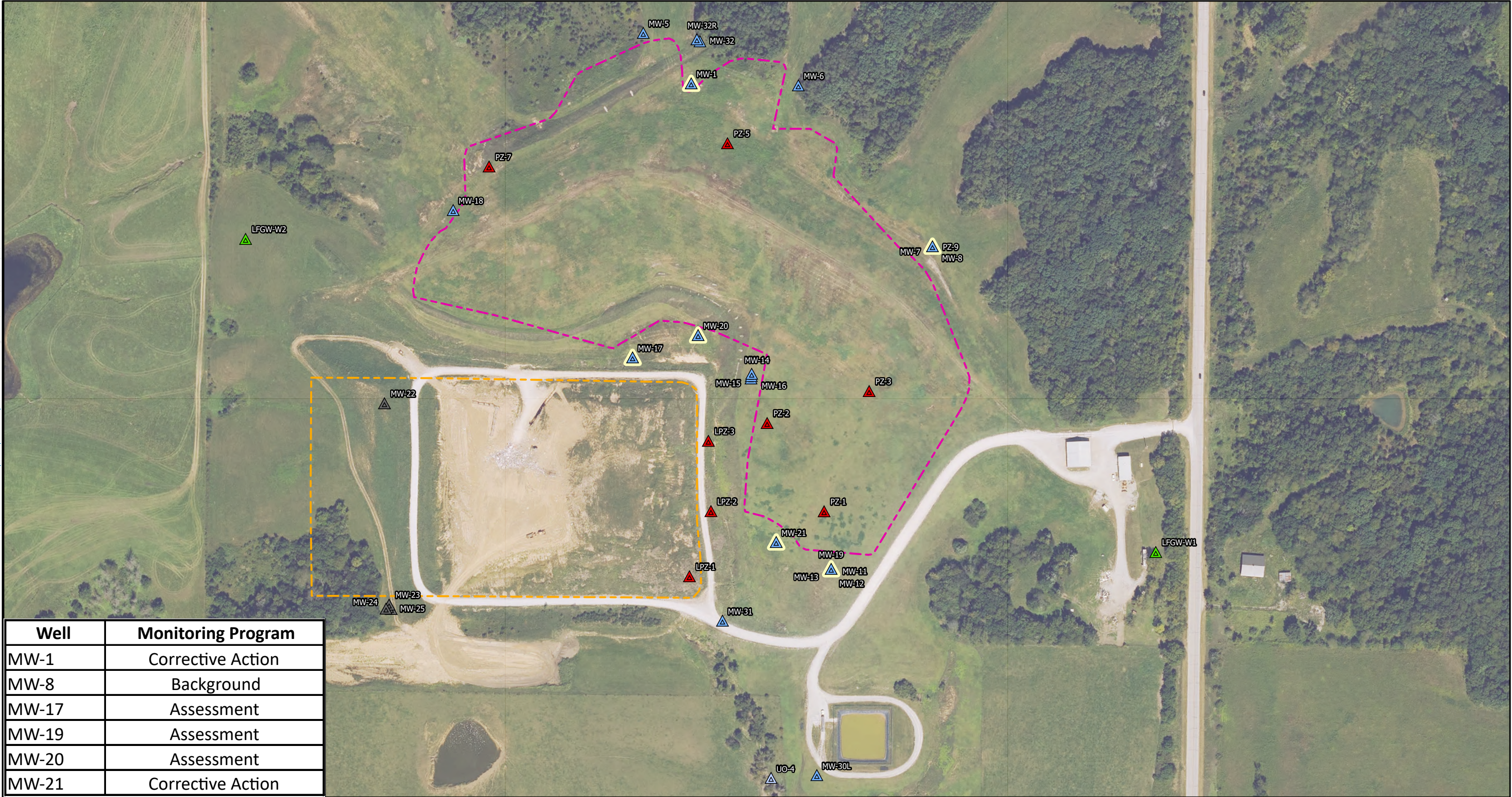
NA - Not available as a completion date cannot be calculated with an increasing trend.

Comments:

- 1) An Assessment of Corrective Measures Report was submitted on March 31, 2016 and approved on October 20, 2016 (Doc No. 87463).

Figures

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Well	Monitoring Program
MW-1	Corrective Action
MW-8	Background
MW-17	Assessment
MW-19	Assessment
MW-20	Assessment
MW-21	Corrective Action



Approved Monitoring Network

Legend

- North 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

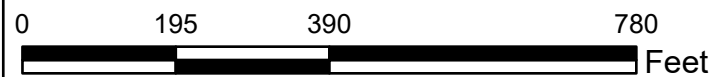
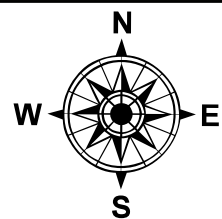
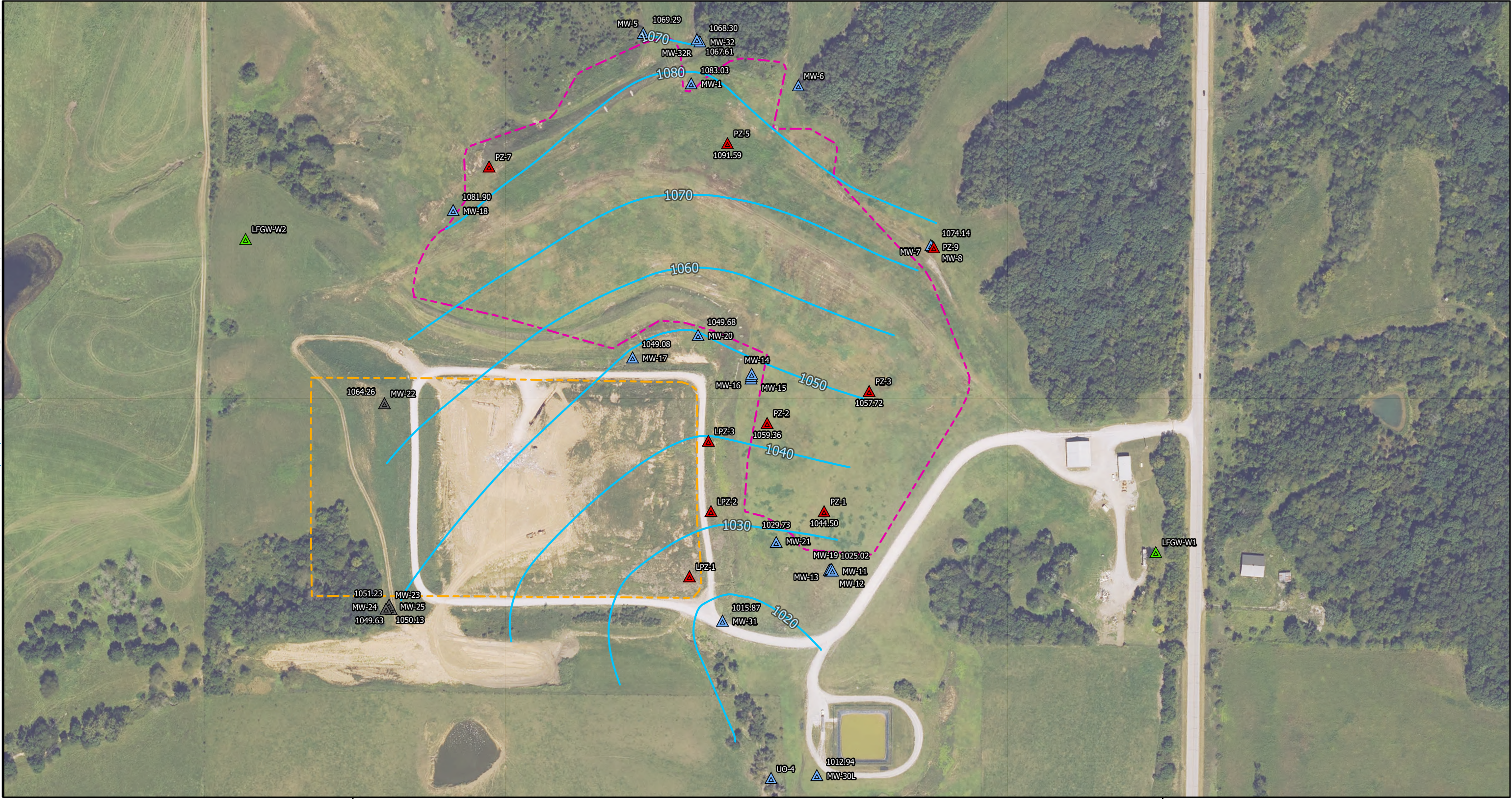


Figure 1

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Groundwater Contours

Legend

- | | | |
|---|---------------------------|---|
| Approximate Groundwater Contours Based on Field Measurements Taken on May 8, 2025 | Groundwater Underdrain | Approximate Waste Boundary - South MSWLF Unit |
| Monitoring Well | Abandoned Monitoring Well | Approximate Waste Boundary - North MSWLF Unit |
| | Leachate Monitoring Well | Approximate Property Boundary |
| | Landfill Gas Well | |

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

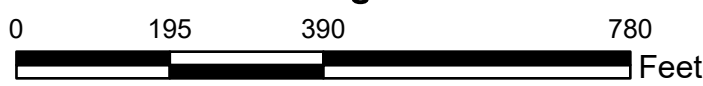
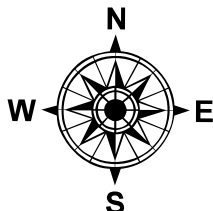


Figure 2

Sources: Esri, DeLorme, Garmin, FGO, NGSL, USGS, © OpenStreetMap contributors, and the GIS User Community, Esri, CGIAR, USGS, USDA NRI, Iowa State University GIS Facility



Appendix A

Field Sampling Forms

FORM FOR GROUNDWATER SAMPLING

Project: Wayne-Ringgold-Decatur Sanitary Landfill North	
Monitoring Well/Piezometer ID: MW-1	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):	30.3
Initial Static Water Level (feet):	15.94
Initial Groundwater Elevation (ft-amsl):	1083.03
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)	
12:21 PM	Purging start time.						
12:24 PM	14.2	0.5	1524.3	6.65	-119.1	115.3	
12:27 PM	14.1	0.3	1475.2	6.65	-122.1	9.1	
12:30 PM	14.4	0.2	1439.2	6.61	-118.9	4.4	
12:33 PM	14.5	0.2	1413.4	6.58	-115.6	3.6	
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: Dark tint, started off black Odor: None

FORM FOR GROUNDWATER SAMPLING

Project: Wayne-Ringgold-Decatur Sanitary Landfill North	
Monitoring Well/Piezometer ID: MW-8	Date: 5/8/2025
Gradient: Up	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):	45.9
Initial Static Water Level (feet):	19.31
Initial Groundwater Elevation (ft-amsl):	1074.14
Equipment Used:	Non-Dedicated Submersible

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)	
6:13 PM	Purging start time.						
6:16 PM	16.5	1.9	2814.9	6.98	173.7	5.0	
6:19 PM	14.7	1.4	2861.2	6.99	167.8	4.7	
6:22 PM	15.5	1.2	2845.9	6.99	162.9	4.3	
6:25 PM	15.1	1.2	2864.6	7.00	158.8	4.7	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	2.7
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	225.00

D. WELL MAINTENANCE	
Does the well require any future maintenance?	Yes
If yes, explain:	Dedicated submersible inoperable. Pump removed and returned to the office for troubleshooting.
Additional Comments:	Color: Clear Odor: None

FORM FOR GROUNDWATER SAMPLING

Project: Wayne-Ringgold-Decatur Sanitary Landfill North	
Monitoring Well/Piezometer ID: MW-17	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):	27.9
Initial Static Water Level (feet):	5.85
Initial Groundwater Elevation (ft-amsl):	1049.08
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)	
1:54 PM	Purging start time.						
1:57 PM	13.8	1.1	1603.2	6.61	100.6	2.0	
2:00 PM	13.9	0.6	1593.6	6.59	93.9	2.2	
2:03 PM	14.5	0.5	1603.5	6.59	88.0	2.2	
2:06 PM	14.7	0.4	1603.4	6.59	84.0	2.2	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	2.1
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	175.00

D. WELL MAINTENANCE

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

FORM FOR GROUNDWATER SAMPLING

Project: Wayne-Ringgold-Decatur Sanitary Landfill North	
Monitoring Well/Piezometer ID: MW-19	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):	68.0
Initial Static Water Level (feet):	25.59
Initial Groundwater Elevation (ft-amsl):	1025.02
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)	
4:20 PM	Purging start time.						
4:23 PM	15.4	3.5	335.2	7.15	48.9	3.7	
4:26 PM	15.8	3.5	317.4	7.14	58.0	4.6	
4:29 PM	15.7	3.5	316.5	7.12	65.4	3.4	
4:32 PM	16.0	3.5	315.5	7.11	71.7	3.3	
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: None

FORM FOR GROUNDWATER SAMPLING

Project: Wayne-Ringgold-Decatur Sanitary Landfill North	
Monitoring Well/Piezometer ID: MW-20	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):	28.1
Initial Static Water Level (feet):	3.75
Initial Groundwater Elevation (ft-amsl):	1049.68
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)	
1:09 PM	Purging start time.						
1:12 PM	13.2	3.1	1473.5	6.79	-60.6	2.6	
1:15 PM	13.4	2.9	1473.5	6.77	-38.5	2.0	
1:18 PM	13.3	2.8	1472.3	6.77	-23.1	2.1	
1:21 PM	13.0	2.8	1474.0	6.77	-11.4	2.2	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	2.1
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	175.00

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

FORM FOR GROUNDWATER SAMPLING

Project: Wayne-Ringgold-Decatur Sanitary Landfill North	
Monitoring Well/Piezometer ID: MW-21	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):	25.0
Initial Static Water Level (feet):	5.01
Initial Groundwater Elevation (ft-amsl):	1029.73
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)	
2:44 PM	Purging start time.						
2:47 PM	14.2	0.5	1237.3	6.31	9.9	97.5	
2:50 PM	13.8	0.2	1217.9	6.29	-1.4	92.1	
2:53 PM	13.9	0.1	1215.0	6.27	-4.2	81.8	
2:56 PM	14.3	0.1	1218.3	6.25	-5.7	71.6	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	1.9
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	158.33

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

FORM FOR GROUNDWATER SAMPLING

Project: Wayne-Ringgold-Decatur Sanitary Landfill North	
Monitoring Well/Piezometer ID: MW-32R	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):	53.6
Initial Static Water Level (feet):	16.49
Initial Groundwater Elevation (ft-amsl):	1067.61
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)	
11:38 AM	Purging start time.						
11:41 AM	14.5	0.8	4554.1	6.05	51.6	4.0	
11:44 AM	14.6	0.3	4578.0	6.07	19.4	3.9	
11:47 AM	14.7	0.2	4577.9	6.08	9.6	3.8	
11:50 AM	14.7	0.2	4588.3	6.09	5.0	4.2	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	2.1
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	175.00

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

FORM FOR GROUNDWATER SAMPLING

Project: Wayne-Ringgold-Decatur Sanitary Landfill North	
Monitoring Well/Piezometer ID: MW-1	Date: 11/10/2025
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):	30.3
Initial Static Water Level (feet):	18.91
Initial Groundwater Elevation (ft-amsl):	1080.06
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 (FNU)	
1:31 PM	Purging start time.						
1:34 PM	11.3	0.7	1368.0	6.96	-95.6	11.2	
1:37 PM	11.2	0.3	1308.0	6.94	-112.9	11.1	
1:40 PM	11.0	0.2	1278.0	6.91	-117.1	6.3	
1:43 PM	11.3	0.1	1247.6	6.88	-117.1	8.4	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	2.1
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	175.00

D. WELL MAINTENANCE

Does the well require any future maintenance? No	
If yes, explain:	
Additional Comments:	Color: Yellow Tint Odor: Fish/Sulfur

FORM FOR GROUNDWATER SAMPLING

Project: Wayne-Ringgold-Decatur Sanitary Landfill North	
Monitoring Well/Piezometer ID: MW-8	Date: 11/10/2025
Gradient: Up	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): NM	
Initial Static Water Level (feet): 19.08	
Initial Groundwater Elevation (ft-amsl): 1074.37	
Equipment Used: Dedicated Submersible	

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 (FNU)	
12:23 PM	Purging start time.						
12:26 PM	12.3	0.9	3408.0	6.68	110.2	16.0	
12:29 PM	12.5	0.3	3307.1	6.68	58.1	21.7	
12:32 PM	12.9	0.2	3017.5	6.76	37.1	21.2	
12:35 PM	12.7	0.2	2885.9	6.83	32.3	19.9	
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?	Yes
If yes, explain:	Well cap required.
Additional Comments:	Color: Clear Odor: Sulfur

FORM FOR GROUNDWATER SAMPLING

[illegible]

FORM FOR GROUNDWATER SAMPLING

Project: Wayne-Ringgold-Decatur Sanitary Landfill North	
Monitoring Well/Piezometer ID: MW-19	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):	NM
Initial Static Water Level (feet):	26.30
Initial Groundwater Elevation (ft-amsl):	1024.31
Equipment Used:	Non-Dedicated Submersible

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 (FNU)	
10:37 AM	Purging start time.						
10:40 AM	11.5	1.7	444.6	7.36	138.0	19.6	
10:43 AM	11.9	0.7	1097.1	6.97	97.5	46.5	
10:46 AM	11.6	0.5	1282.0	6.93	81.0	56.0	
10:49 AM	12.3	0.3	1330.7	6.91	78.7	59.0	
10:52 AM	12.4	0.3	1374.3	6.90	80.3	46.9	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	2.3
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	15:00
Average Purge Rate (mL/min):	153.33

D. WELL MAINTENANCE

Does the well require any future maintenance? No	
If yes, explain:	
Additional Comments:	Color: Cloudy Odor: Sulfur

FORM FOR GROUNDWATER SAMPLING

Project: Wayne-Ringgold-Decatur Sanitary Landfill North	
Monitoring Well/Piezometer ID: MW-20	Date: 11/10/2025
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):	28.1
Initial Static Water Level (feet):	4.61
Initial Groundwater Elevation (ft-amsl):	1048.82
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 (FNU)	
2:39 PM	Purging start time.						
2:42 PM	12.2	0.7	1376.0	6.81	-29.4	9.2	
2:45 PM	12.3	0.4	1360.1	6.83	-17.9	5.3	
2:48 PM	12.3	0.4	1348.9	6.84	-8.6	5.4	
2:51 PM	12.3	0.4	1338.4	6.83	-0.4	5.4	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	2.1
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	175.00

D. WELL MAINTENANCE

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

FORM FOR GROUNDWATER SAMPLING

[illegible]

FORM FOR GROUNDWATER SAMPLING

Project: Wayne-Ringgold-Decatur Sanitary Landfill North	
Monitoring Well/Piezometer ID: MW-32R	Date: 11/10/2025
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):	54.0
Initial Static Water Level (feet):	18.45
Initial Groundwater Elevation (ft-amsl):	1065.65
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 (FNU)	
12:57 PM	Purging start time.						
1:00 PM	11.3	0.7	4184.7	6.26	38.9	6.1	
1:03 PM	11.4	0.3	4218.4	6.24	31.7	5.9	
1:06 PM	10.9	0.2	4233.0	6.23	28.5	5.9	
1:09 PM	10.9	0.1	4235.1	6.24	26.5	5.7	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	1.9
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	158.33

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



Appendix B1

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 5/20/2025 9:19:14 AM

JOB DESCRIPTION

WRD-N 1st 2025 GW Sampling Event
WRD Sanitary Landfill - North Unit

JOB NUMBER

310-306160-1

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



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5/20/2025 9:19:14 AM

Authorized for release by
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Case Narrative

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

Job ID: 310-306160-1

Job ID: 310-306160-1

Eurofins Cedar Falls

Job Narrative 310-306160-1

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 temperatures of the 2 coolers at receipt time were 0.2°C and 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).

Method 8260D: The continuing calibration verification (CCV) associated with batch 310-454525 recovered outside of the control limits for Bromomethane (-24.8%D). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The associated sample is impacted: (CCV 310-454525/4).

Method 8260D: The continuing calibration verification (CCV) associated with batch 310-454525 recovered outside of the control limits for Vinyl chloride (-20.9%D). The LCS associated with this CCV passed CCV criteria for the affected analyte; therefore, the data have been reported. The associated sample is:(CCV 310-454525/4).

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

Pesticides

Method 8081B: The continuing calibration verification (CCV) associated with batch 310-454627 recovered above the upper control limit for 4,4'-DDE. The samples associated with this CCV were non-detects for the affected analytes; 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.

Metals

Method 6020B: The laboratory control sample (LCS) for preparation batch 310-454569 and analytical batch 310-454894 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-N 1st 2025 GW Sampling Event

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North Unit

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-306160-1	MW-8	Water	05/08/25 18:33	05/09/25 16:00
310-306160-2	MW-1	Water	05/08/25 12:48	05/09/25 16:00
310-306160-3	MW-17	Water	05/08/25 14:21	05/09/25 16:00
310-306160-4	MW-19	Water	05/08/25 16:50	05/09/25 16:00
310-306160-5	MW-20	Water	05/08/25 13:40	05/09/25 16:00
310-306160-6	MW-21	Water	05/08/25 15:01	05/09/25 16:00
310-306160-7	MW-32R	Water	05/08/25 12:01	05/09/25 16:00
310-306160-8	MW-DN	Water	05/08/25 13:40	05/09/25 16:00
310-306160-9	Trip Blank 1	Water	05/08/25 00:00	05/09/25 16:00
310-306160-10	Trip Blank 2	Water	05/08/25 00:00	05/09/25 16:00

Detection Summary

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

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North Unit

Client Sample ID: MW-8

Lab Sample ID: 310-306160-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Antimony	0.00208		0.00200	0.00100	mg/L		1		6020B	Total/NA
Arsenic	0.000750	J	0.00200	0.000530	mg/L		1		6020B	Total/NA
Barium	0.0274		0.00200	0.000660	mg/L		1		6020B	Total/NA
Cadmium	0.000238		0.000200	0.000100	mg/L		1		6020B	Total/NA
Cobalt	0.000873		0.000500	0.000170	mg/L		1		6020B	Total/NA
Nickel	0.0127		0.00500	0.00230	mg/L		1		6020B	Total/NA
Selenium	0.00140	J	0.00500	0.00140	mg/L		1		6020B	Total/NA
Total Suspended Solids	4.13		1.88	1.31	mg/L		1		I-3765-85	Total/NA

Client Sample ID: MW-1

Lab Sample ID: 310-306160-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,1-Dichloroethane	0.532	J	1.00	0.220	ug/L		1		8260D	Total/NA
Acetone	3.11	J	10.0	3.10	ug/L		1		8260D	Total/NA
Vinyl chloride	0.277	J	1.00	0.180	ug/L		1		8260D	Total/NA
Arsenic	0.00632		0.00200	0.000530	mg/L		1		6020B	Total/NA
Barium	0.510		0.00200	0.000660	mg/L		1		6020B	Total/NA
Cobalt	0.00108		0.000500	0.000170	mg/L		1		6020B	Total/NA
Lead	0.00310		0.000500	0.000330	mg/L		1		6020B	Total/NA
Nickel	0.00420	J	0.00500	0.00230	mg/L		1		6020B	Total/NA
Vanadium	0.00374	J	0.00500	0.00170	mg/L		1		6020B	Total/NA
Zinc	0.0225		0.0200	0.0130	mg/L		1		6020B	Total/NA
Total Suspended Solids	45.0		5.00	3.50	mg/L		1		I-3765-85	Total/NA

Client Sample ID: MW-17

Lab Sample ID: 310-306160-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Barium	0.0495		0.00200	0.000660	mg/L		1		6020B	Total/NA
Selenium	0.00188	J	0.00500	0.00140	mg/L		1		6020B	Total/NA

Client Sample ID: MW-19

Lab Sample ID: 310-306160-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	0.000906	J	0.00200	0.000530	mg/L		1		6020B	Total/NA
Barium	0.114		0.00200	0.000660	mg/L		1		6020B	Total/NA

Client Sample ID: MW-20

Lab Sample ID: 310-306160-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Barium	0.0690		0.00200	0.000660	mg/L		1		6020B	Total/NA
Selenium	0.00257	J	0.00500	0.00140	mg/L		1		6020B	Total/NA

Client Sample ID: MW-21

Lab Sample ID: 310-306160-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,4-Dichlorobenzene	0.494	J	1.00	0.230	ug/L		1		8260D	Total/NA
Antimony	0.00108	J	0.00200	0.00100	mg/L		1		6020B	Total/NA
Arsenic	0.00903		0.00200	0.000530	mg/L		1		6020B	Total/NA
Barium	0.311		0.00200	0.000660	mg/L		1		6020B	Total/NA
Cadmium	0.000358		0.000200	0.000100	mg/L		1		6020B	Total/NA
Cobalt	0.0155		0.000500	0.000170	mg/L		1		6020B	Total/NA
Nickel	0.0369		0.00500	0.00230	mg/L		1		6020B	Total/NA
Total Suspended Solids	34.5		7.50	5.25	mg/L		1		I-3765-85	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

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

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North Unit

Client Sample ID: MW-32R

Lab Sample ID: 310-306160-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Vinyl chloride	1.38		1.00	0.180	ug/L		1		8260D	Total/NA
Cobalt	0.0123		0.000500	0.000170	mg/L		1		6020B	Total/NA
Total Suspended Solids	7.33		2.50	1.75	mg/L		1		I-3765-85	Total/NA

Client Sample ID: MW-DN

Lab Sample ID: 310-306160-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Barium	0.0686		0.00200	0.000660	mg/L		1		6020B	Total/NA
Selenium	0.00295	J	0.00500	0.00140	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: Trip Blank 1

Lab Sample ID: 310-306160-9

No Detections.

Client Sample ID: Trip Blank 2

Lab Sample ID: 310-306160-10

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Quantitation Limit Exceptions Summary

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

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North Unit

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
8260D	1,2-Dibromo-3-Chloropropane	Water	Total/NA	ug/L	1.20	5
8260D	1,2-Dibromoethane (EDB)	Water	Total/NA	ug/L	0.340	1

Client Sample Results

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

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North Unit

Client Sample ID: MW-8

Lab Sample ID: 310-306160-1

Date Collected: 05/08/25 18:33

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 02:17	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/14/25 02:17	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/14/25 02:17	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/14/25 02:17	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/14/25 02:17	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/14/25 02:17	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/14/25 02:17	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/14/25 02:17	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/14/25 02:17	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/14/25 02:17	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/14/25 02:17	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/14/25 02:17	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/14/25 02:17	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/14/25 02:17	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/14/25 02:17	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/14/25 02:17	1
Acetone	<10.0		10.0	3.10	ug/L			05/14/25 02:17	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			05/14/25 02:17	1
Benzene	<0.500		0.500	0.220	ug/L			05/14/25 02:17	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/14/25 02:17	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/14/25 02:17	1
Bromoform	<5.00		5.00	0.780	ug/L			05/14/25 02:17	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/14/25 02:17	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/14/25 02:17	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/14/25 02:17	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/14/25 02:17	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/14/25 02:17	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/14/25 02:17	1
Chloroform	<3.00		3.00	1.30	ug/L			05/14/25 02:17	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/14/25 02:17	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/14/25 02:17	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/14/25 02:17	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/14/25 02:17	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/14/25 02:17	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/14/25 02:17	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/14/25 02:17	1
Styrene	<1.00		1.00	0.370	ug/L			05/14/25 02:17	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/14/25 02:17	1
Toluene	<1.00		1.00	0.430	ug/L			05/14/25 02:17	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/14/25 02:17	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/14/25 02:17	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/14/25 02:17	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/14/25 02:17	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/14/25 02:17	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/14/25 02:17	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/14/25 02:17	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/14/25 02:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	112		76 - 130		05/14/25 02:17	1

Eurofins Cedar Falls

Client Sample Results

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

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North Unit

Client Sample ID: MW-8

Lab Sample ID: 310-306160-1

Date Collected: 05/08/25 18:33

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)	92		80 - 120		05/14/25 02:17	1
4-Bromofluorobenzene (Surr)	97		80 - 120		05/14/25 02:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00208		0.00200	0.00100	mg/L		05/14/25 09:00	05/15/25 16:28	1
Arsenic	0.000750	J	0.00200	0.000530	mg/L		05/14/25 09:00	05/15/25 16:28	1
Barium	0.0274		0.00200	0.000660	mg/L		05/14/25 09:00	05/15/25 16:28	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/14/25 09:00	05/15/25 16:28	1
Cadmium	0.000238		0.000200	0.000100	mg/L		05/14/25 09:00	05/15/25 16:28	1
Chromium	<0.00500		0.00500	0.00180	mg/L		05/14/25 09:00	05/15/25 16:28	1
Cobalt	0.000873		0.000500	0.000170	mg/L		05/14/25 09:00	05/15/25 16:28	1
Copper	<0.00500		0.00500	0.00320	mg/L		05/14/25 09:00	05/15/25 16:28	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/14/25 09:00	05/15/25 16:28	1
Nickel	0.0127		0.00500	0.00230	mg/L		05/14/25 09:00	05/15/25 16:28	1
Selenium	0.00140	J	0.00500	0.00140	mg/L		05/14/25 09:00	05/15/25 16:28	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/14/25 09:00	05/15/25 16:28	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/14/25 09:00	05/15/25 16:28	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		05/14/25 09:00	05/15/25 16:28	1
Zinc	<0.0200		0.0200	0.0130	mg/L		05/14/25 09:00	05/15/25 16:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	4.13		1.88	1.31	mg/L			05/13/25 15:13	1

Client Sample Results

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

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North Unit

Client Sample ID: MW-1

Lab Sample ID: 310-306160-2

Date Collected: 05/08/25 12:48

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 02:40	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/14/25 02:40	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/14/25 02:40	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/14/25 02:40	1
1,1-Dichloroethane	0.532	J	1.00	0.220	ug/L			05/14/25 02:40	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/14/25 02:40	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/14/25 02:40	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/14/25 02:40	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/14/25 02:40	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/14/25 02:40	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/14/25 02:40	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/14/25 02:40	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/14/25 02:40	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/14/25 02:40	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/14/25 02:40	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/14/25 02:40	1
Acetone	3.11	J	10.0	3.10	ug/L			05/14/25 02:40	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			05/14/25 02:40	1
Benzene	<0.500		0.500	0.220	ug/L			05/14/25 02:40	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/14/25 02:40	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/14/25 02:40	1
Bromoform	<5.00		5.00	0.780	ug/L			05/14/25 02:40	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/14/25 02:40	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/14/25 02:40	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/14/25 02:40	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/14/25 02:40	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/14/25 02:40	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/14/25 02:40	1
Chloroform	<3.00		3.00	1.30	ug/L			05/14/25 02:40	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/14/25 02:40	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/14/25 02:40	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/14/25 02:40	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/14/25 02:40	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/14/25 02:40	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/14/25 02:40	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/14/25 02:40	1
Styrene	<1.00		1.00	0.370	ug/L			05/14/25 02:40	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/14/25 02:40	1
Toluene	<1.00		1.00	0.430	ug/L			05/14/25 02:40	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/14/25 02:40	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/14/25 02:40	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/14/25 02:40	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/14/25 02:40	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/14/25 02:40	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/14/25 02:40	1
Vinyl chloride	0.277	J	1.00	0.180	ug/L			05/14/25 02:40	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/14/25 02:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	113		76 - 130		05/14/25 02:40	1

Eurofins Cedar Falls

Client Sample Results

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

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North Unit

Client Sample ID: MW-1

Lab Sample ID: 310-306160-2

Date Collected: 05/08/25 12:48

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)	93		80 - 120		05/14/25 02:40	1
4-Bromofluorobenzene (Surr)	99		80 - 120		05/14/25 02:40	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		05/14/25 09:00	05/15/25 16:31	1
Arsenic	0.00632		0.00200	0.000530	mg/L		05/14/25 09:00	05/15/25 16:31	1
Barium	0.510		0.00200	0.000660	mg/L		05/14/25 09:00	05/15/25 16:31	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/14/25 09:00	05/15/25 16:31	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/14/25 09:00	05/15/25 16:31	1
Chromium	<0.00500		0.00500	0.00180	mg/L		05/14/25 09:00	05/15/25 16:31	1
Cobalt	0.00108		0.000500	0.000170	mg/L		05/14/25 09:00	05/15/25 16:31	1
Copper	<0.00500		0.00500	0.00320	mg/L		05/14/25 09:00	05/15/25 16:31	1
Lead	0.00310		0.000500	0.000330	mg/L		05/14/25 09:00	05/15/25 16:31	1
Nickel	0.00420	J	0.00500	0.00230	mg/L		05/14/25 09:00	05/15/25 16:31	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/14/25 09:00	05/15/25 16:31	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/14/25 09:00	05/15/25 16:31	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/14/25 09:00	05/15/25 16:31	1
Vanadium	0.00374	J	0.00500	0.00170	mg/L		05/14/25 09:00	05/15/25 16:31	1
Zinc	0.0225		0.0200	0.0130	mg/L		05/14/25 09:00	05/15/25 16:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	45.0		5.00	3.50	mg/L			05/13/25 15:13	1

Client Sample Results

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

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North Unit

Client Sample ID: MW-17

Lab Sample ID: 310-306160-3

Date Collected: 05/08/25 14:21

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 03:02	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/14/25 03:02	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/14/25 03:02	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/14/25 03:02	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/14/25 03:02	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/14/25 03:02	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/14/25 03:02	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/14/25 03:02	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/14/25 03:02	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/14/25 03:02	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/14/25 03:02	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/14/25 03:02	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/14/25 03:02	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/14/25 03:02	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/14/25 03:02	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/14/25 03:02	1
Acetone	<10.0		10.0	3.10	ug/L			05/14/25 03:02	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			05/14/25 03:02	1
Benzene	<0.500		0.500	0.220	ug/L			05/14/25 03:02	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/14/25 03:02	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/14/25 03:02	1
Bromoform	<5.00		5.00	0.780	ug/L			05/14/25 03:02	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/14/25 03:02	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/14/25 03:02	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/14/25 03:02	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/14/25 03:02	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/14/25 03:02	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/14/25 03:02	1
Chloroform	<3.00		3.00	1.30	ug/L			05/14/25 03:02	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/14/25 03:02	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/14/25 03:02	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/14/25 03:02	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/14/25 03:02	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/14/25 03:02	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/14/25 03:02	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/14/25 03:02	1
Styrene	<1.00		1.00	0.370	ug/L			05/14/25 03:02	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/14/25 03:02	1
Toluene	<1.00		1.00	0.430	ug/L			05/14/25 03:02	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/14/25 03:02	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/14/25 03:02	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/14/25 03:02	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/14/25 03:02	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/14/25 03:02	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/14/25 03:02	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/14/25 03:02	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/14/25 03:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	113		76 - 130		05/14/25 03:02	1

Eurofins Cedar Falls

Client Sample Results

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

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North Unit

Client Sample ID: MW-17

Lab Sample ID: 310-306160-3

Date Collected: 05/08/25 14:21

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)	94		80 - 120		05/14/25 03:02	1
4-Bromofluorobenzene (Surr)	96		80 - 120		05/14/25 03:02	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		05/14/25 09:00	05/15/25 16:34	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/14/25 09:00	05/15/25 16:34	1
Barium	0.0495		0.00200	0.000660	mg/L		05/14/25 09:00	05/15/25 16:34	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/14/25 09:00	05/15/25 16:34	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/14/25 09:00	05/15/25 16:34	1
Chromium	<0.00500		0.00500	0.00180	mg/L		05/14/25 09:00	05/15/25 16:34	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/14/25 09:00	05/15/25 16:34	1
Copper	<0.00500		0.00500	0.00320	mg/L		05/14/25 09:00	05/15/25 16:34	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/14/25 09:00	05/15/25 16:34	1
Nickel	<0.00500		0.00500	0.00230	mg/L		05/14/25 09:00	05/15/25 16:34	1
Selenium	0.00188	J	0.00500	0.00140	mg/L		05/14/25 09:00	05/15/25 16:34	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/14/25 09:00	05/15/25 16:34	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/14/25 09:00	05/15/25 16:34	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		05/14/25 09:00	05/15/25 16:34	1
Zinc	<0.0200		0.0200	0.0130	mg/L		05/14/25 09:00	05/15/25 16:34	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-N 1st 2025 GW Sampling Event

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North Unit

Client Sample ID: MW-19

Lab Sample ID: 310-306160-4

Date Collected: 05/08/25 16:50

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 03:25	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/14/25 03:25	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/14/25 03:25	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/14/25 03:25	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/14/25 03:25	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/14/25 03:25	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/14/25 03:25	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/14/25 03:25	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/14/25 03:25	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/14/25 03:25	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/14/25 03:25	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/14/25 03:25	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/14/25 03:25	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/14/25 03:25	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/14/25 03:25	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/14/25 03:25	1
Acetone	<10.0		10.0	3.10	ug/L			05/14/25 03:25	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			05/14/25 03:25	1
Benzene	<0.500		0.500	0.220	ug/L			05/14/25 03:25	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/14/25 03:25	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/14/25 03:25	1
Bromoform	<5.00		5.00	0.780	ug/L			05/14/25 03:25	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/14/25 03:25	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/14/25 03:25	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/14/25 03:25	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/14/25 03:25	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/14/25 03:25	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/14/25 03:25	1
Chloroform	<3.00		3.00	1.30	ug/L			05/14/25 03:25	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/14/25 03:25	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/14/25 03:25	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/14/25 03:25	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/14/25 03:25	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/14/25 03:25	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/14/25 03:25	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/14/25 03:25	1
Styrene	<1.00		1.00	0.370	ug/L			05/14/25 03:25	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/14/25 03:25	1
Toluene	<1.00		1.00	0.430	ug/L			05/14/25 03:25	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/14/25 03:25	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/14/25 03:25	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/14/25 03:25	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/14/25 03:25	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/14/25 03:25	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/14/25 03:25	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/14/25 03:25	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/14/25 03:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	116		76 - 130		05/14/25 03:25	1

Eurofins Cedar Falls

Client Sample Results

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

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North Unit

Client Sample ID: MW-19

Lab Sample ID: 310-306160-4

Date Collected: 05/08/25 16:50

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)	92		80 - 120		05/14/25 03:25	1
4-Bromofluorobenzene (Surr)	97		80 - 120		05/14/25 03:25	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		05/14/25 09:00	05/15/25 16:36	1
Arsenic	0.000906	J	0.00200	0.000530	mg/L		05/14/25 09:00	05/15/25 16:36	1
Barium	0.114		0.00200	0.000660	mg/L		05/14/25 09:00	05/15/25 16:36	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/14/25 09:00	05/15/25 16:36	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/14/25 09:00	05/15/25 16:36	1
Chromium	<0.00500		0.00500	0.00180	mg/L		05/14/25 09:00	05/15/25 16:36	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/14/25 09:00	05/15/25 16:36	1
Copper	<0.00500		0.00500	0.00320	mg/L		05/14/25 09:00	05/15/25 16:36	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/14/25 09:00	05/15/25 16:36	1
Nickel	<0.00500		0.00500	0.00230	mg/L		05/14/25 09:00	05/15/25 16:36	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/14/25 09:00	05/15/25 16:36	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/14/25 09:00	05/15/25 16:36	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/14/25 09:00	05/15/25 16:36	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		05/14/25 09:00	05/15/25 16:36	1
Zinc	<0.0200		0.0200	0.0130	mg/L		05/14/25 09:00	05/15/25 16:36	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-N 1st 2025 GW Sampling Event

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North Unit

Client Sample ID: MW-20

Lab Sample ID: 310-306160-5

Date Collected: 05/08/25 13:40

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 03:47	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/14/25 03:47	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/14/25 03:47	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/14/25 03:47	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/14/25 03:47	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/14/25 03:47	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/14/25 03:47	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/14/25 03:47	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/14/25 03:47	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/14/25 03:47	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/14/25 03:47	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/14/25 03:47	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/14/25 03:47	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/14/25 03:47	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/14/25 03:47	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/14/25 03:47	1
Acetone	<10.0		10.0	3.10	ug/L			05/14/25 03:47	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			05/14/25 03:47	1
Benzene	<0.500		0.500	0.220	ug/L			05/14/25 03:47	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/14/25 03:47	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/14/25 03:47	1
Bromoform	<5.00		5.00	0.780	ug/L			05/14/25 03:47	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/14/25 03:47	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/14/25 03:47	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/14/25 03:47	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/14/25 03:47	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/14/25 03:47	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/14/25 03:47	1
Chloroform	<3.00		3.00	1.30	ug/L			05/14/25 03:47	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/14/25 03:47	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/14/25 03:47	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/14/25 03:47	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/14/25 03:47	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/14/25 03:47	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/14/25 03:47	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/14/25 03:47	1
Styrene	<1.00		1.00	0.370	ug/L			05/14/25 03:47	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/14/25 03:47	1
Toluene	<1.00		1.00	0.430	ug/L			05/14/25 03:47	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/14/25 03:47	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/14/25 03:47	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/14/25 03:47	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/14/25 03:47	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/14/25 03:47	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/14/25 03:47	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/14/25 03:47	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/14/25 03:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	115		76 - 130		05/14/25 03:47	1

Eurofins Cedar Falls

Client Sample Results

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

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North Unit

Client Sample ID: MW-20

Lab Sample ID: 310-306160-5

Date Collected: 05/08/25 13:40

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)	91		80 - 120		05/14/25 03:47	1
4-Bromofluorobenzene (Surr)	97		80 - 120		05/14/25 03:47	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		05/14/25 09:00	05/15/25 16:39	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/14/25 09:00	05/15/25 16:39	1
Barium	0.0690		0.00200	0.000660	mg/L		05/14/25 09:00	05/15/25 16:39	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/14/25 09:00	05/15/25 16:39	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/14/25 09:00	05/15/25 16:39	1
Chromium	<0.00500		0.00500	0.00180	mg/L		05/14/25 09:00	05/15/25 16:39	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/14/25 09:00	05/15/25 16:39	1
Copper	<0.00500		0.00500	0.00320	mg/L		05/14/25 09:00	05/15/25 16:39	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/14/25 09:00	05/15/25 16:39	1
Nickel	<0.00500		0.00500	0.00230	mg/L		05/14/25 09:00	05/15/25 16:39	1
Selenium	0.00257 J		0.00500	0.00140	mg/L		05/14/25 09:00	05/15/25 16:39	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/14/25 09:00	05/15/25 16:39	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/14/25 09:00	05/15/25 16:39	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		05/14/25 09:00	05/15/25 16:39	1
Zinc	<0.0200		0.0200	0.0130	mg/L		05/14/25 09:00	05/15/25 16:39	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-N 1st 2025 GW Sampling Event

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North Unit

Client Sample ID: MW-21

Lab Sample ID: 310-306160-6

Date Collected: 05/08/25 15:01

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 00:36	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/14/25 00:36	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/14/25 00:36	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/14/25 00:36	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/14/25 00:36	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/14/25 00:36	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/14/25 00:36	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/14/25 00:36	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/14/25 00:36	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/14/25 00:36	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/14/25 00:36	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/14/25 00:36	1
1,4-Dichlorobenzene	0.494	J	1.00	0.230	ug/L			05/14/25 00:36	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/14/25 00:36	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/14/25 00:36	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/14/25 00:36	1
Acetone	<10.0		10.0	3.10	ug/L			05/14/25 00:36	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			05/14/25 00:36	1
Benzene	<0.500		0.500	0.220	ug/L			05/14/25 00:36	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/14/25 00:36	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/14/25 00:36	1
Bromoform	<5.00		5.00	0.780	ug/L			05/14/25 00:36	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/14/25 00:36	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/14/25 00:36	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/14/25 00:36	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/14/25 00:36	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/14/25 00:36	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/14/25 00:36	1
Chloroform	<3.00		3.00	1.30	ug/L			05/14/25 00:36	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/14/25 00:36	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/14/25 00:36	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/14/25 00:36	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/14/25 00:36	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/14/25 00:36	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/14/25 00:36	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/14/25 00:36	1
Styrene	<1.00		1.00	0.370	ug/L			05/14/25 00:36	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/14/25 00:36	1
Toluene	<1.00		1.00	0.430	ug/L			05/14/25 00:36	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/14/25 00:36	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/14/25 00:36	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/14/25 00:36	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/14/25 00:36	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/14/25 00:36	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/14/25 00:36	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/14/25 00:36	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/14/25 00:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	112		76 - 130		05/14/25 00:36	1

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Client Sample Results

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

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North Unit

Client Sample ID: MW-21

Lab Sample ID: 310-306160-6

Date Collected: 05/08/25 15:01

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 00:36	1
4-Bromofluorobenzene (Surr)	97		80 - 120		05/14/25 00:36	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	<0.179		0.179	0.0179	ug/L		05/14/25 12:40	05/14/25 20:21	1
Methoxychlor	<0.0897		0.0897	0.0287	ug/L		05/14/25 12:40	05/14/25 20:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	51		10 - 150	05/14/25 12:40	05/14/25 20:21	1
Tetrachloro-m-xylene	67		17 - 150	05/14/25 12:40	05/14/25 20:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00108	J	0.00200	0.00100	mg/L		05/14/25 09:00	05/15/25 16:55	1
Arsenic	0.00903		0.00200	0.000530	mg/L		05/14/25 09:00	05/15/25 16:55	1
Barium	0.311		0.00200	0.000660	mg/L		05/14/25 09:00	05/15/25 16:55	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/14/25 09:00	05/15/25 16:55	1
Cadmium	0.000358		0.000200	0.000100	mg/L		05/14/25 09:00	05/15/25 16:55	1
Chromium	<0.00500		0.00500	0.00180	mg/L		05/14/25 09:00	05/15/25 16:55	1
Cobalt	0.0155		0.000500	0.000170	mg/L		05/14/25 09:00	05/15/25 16:55	1
Copper	<0.00500		0.00500	0.00320	mg/L		05/14/25 09:00	05/15/25 16:55	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/14/25 09:00	05/15/25 16:55	1
Nickel	0.0369		0.00500	0.00230	mg/L		05/14/25 09:00	05/15/25 16:55	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/14/25 09:00	05/15/25 16:55	1
Silver	<0.00100	*+	0.00100	0.000500	mg/L		05/14/25 09:00	05/15/25 16:55	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/14/25 09:00	05/15/25 16:55	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		05/14/25 09:00	05/15/25 16:55	1
Zinc	<0.0200		0.0200	0.0130	mg/L		05/14/25 09:00	05/15/25 16:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	34.5		7.50	5.25	mg/L			05/13/25 10:39	1

Client Sample Results

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

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North Unit

Client Sample ID: MW-32R

Lab Sample ID: 310-306160-7

Date Collected: 05/08/25 12:01

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
Vinyl chloride	1.38		1.00	0.180	ug/L			05/14/25 00:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	112		76 - 130		05/14/25 00:58	1
Toluene-d8 (Surr)	97		80 - 120		05/14/25 00:58	1
4-Bromofluorobenzene (Surr)	98		80 - 120		05/14/25 00:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	0.0123		0.000500	0.000170	mg/L		05/14/25 09:00	05/15/25 17:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	7.33		2.50	1.75	mg/L			05/13/25 15:13	1

Client Sample Results

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

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North Unit

Client Sample ID: MW-DN

Lab Sample ID: 310-306160-8

Date Collected: 05/08/25 13:40

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 01:21	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/14/25 01:21	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/14/25 01:21	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/14/25 01:21	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/14/25 01:21	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/14/25 01:21	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/14/25 01:21	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/14/25 01:21	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/14/25 01:21	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/14/25 01:21	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/14/25 01:21	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/14/25 01:21	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/14/25 01:21	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/14/25 01:21	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/14/25 01:21	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/14/25 01:21	1
Acetone	<10.0		10.0	3.10	ug/L			05/14/25 01:21	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			05/14/25 01:21	1
Benzene	<0.500		0.500	0.220	ug/L			05/14/25 01:21	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/14/25 01:21	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/14/25 01:21	1
Bromoform	<5.00		5.00	0.780	ug/L			05/14/25 01:21	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/14/25 01:21	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/14/25 01:21	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/14/25 01:21	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/14/25 01:21	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/14/25 01:21	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/14/25 01:21	1
Chloroform	<3.00		3.00	1.30	ug/L			05/14/25 01:21	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/14/25 01:21	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/14/25 01:21	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/14/25 01:21	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/14/25 01:21	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/14/25 01:21	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/14/25 01:21	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/14/25 01:21	1
Styrene	<1.00		1.00	0.370	ug/L			05/14/25 01:21	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/14/25 01:21	1
Toluene	<1.00		1.00	0.430	ug/L			05/14/25 01:21	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/14/25 01:21	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/14/25 01:21	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/14/25 01:21	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/14/25 01:21	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/14/25 01:21	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/14/25 01:21	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/14/25 01:21	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/14/25 01:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	111		76 - 130		05/14/25 01:21	1

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Client Sample Results

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

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North Unit

Client Sample ID: MW-DN

Lab Sample ID: 310-306160-8

Date Collected: 05/08/25 13:40

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 01:21	1
4-Bromofluorobenzene (Surr)	97		80 - 120		05/14/25 01:21	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		05/14/25 09:00	05/15/25 17:08	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/14/25 09:00	05/15/25 17:08	1
Barium	0.0686		0.00200	0.000660	mg/L		05/14/25 09:00	05/15/25 17:08	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/14/25 09:00	05/15/25 17:08	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/14/25 09:00	05/15/25 17:08	1
Chromium	<0.00500		0.00500	0.00180	mg/L		05/14/25 09:00	05/15/25 17:08	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/14/25 09:00	05/15/25 17:08	1
Copper	<0.00500		0.00500	0.00320	mg/L		05/14/25 09:00	05/15/25 17:08	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/14/25 09:00	05/15/25 17:08	1
Nickel	<0.00500		0.00500	0.00230	mg/L		05/14/25 09:00	05/15/25 17:08	1
Selenium	0.00295	J	0.00500	0.00140	mg/L		05/14/25 09:00	05/15/25 17:08	1
Silver	<0.00100	*+	0.00100	0.000500	mg/L		05/14/25 09:00	05/15/25 17:08	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/14/25 09:00	05/15/25 17:08	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		05/14/25 09:00	05/15/25 17:08	1
Zinc	<0.0200		0.0200	0.0130	mg/L		05/14/25 09:00	05/15/25 17:08	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-N 1st 2025 GW Sampling Event

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North Unit

Client Sample ID: Trip Blank 1

Lab Sample ID: 310-306160-9

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			05/13/25 23:27	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/13/25 23:27	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/13/25 23:27	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/13/25 23:27	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/13/25 23:27	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/13/25 23:27	1
1,1-Dichloropropene	<1.00		1.00	0.430	ug/L			05/13/25 23:27	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/13/25 23:27	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			05/13/25 23:27	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			05/13/25 23:27	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			05/13/25 23:27	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/13/25 23:27	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/13/25 23:27	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/13/25 23:27	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			05/13/25 23:27	1
1,3-Dichloropropane	<1.00		1.00	0.400	ug/L			05/13/25 23:27	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/13/25 23:27	1
2,2-Dichloropropane	<4.00		4.00	0.690	ug/L			05/13/25 23:27	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/13/25 23:27	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/13/25 23:27	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/13/25 23:27	1
Acetone	<10.0		10.0	3.10	ug/L			05/13/25 23:27	1
Acrolein	<10.0		10.0	3.60	ug/L			05/13/25 23:27	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			05/13/25 23:27	1
Allyl chloride	<2.00		2.00	0.700	ug/L			05/13/25 23:27	1
Benzene	<0.500		0.500	0.220	ug/L			05/13/25 23:27	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/13/25 23:27	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/13/25 23:27	1
Bromoform	<5.00		5.00	0.780	ug/L			05/13/25 23:27	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/13/25 23:27	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/13/25 23:27	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/13/25 23:27	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/13/25 23:27	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/13/25 23:27	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/13/25 23:27	1
Chloroform	<3.00		3.00	1.30	ug/L			05/13/25 23:27	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/13/25 23:27	1
Chloroprene	<1.00		1.00	0.230	ug/L			05/13/25 23:27	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/13/25 23:27	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/13/25 23:27	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/13/25 23:27	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			05/13/25 23:27	1
Ethyl methacrylate	<2.00		2.00	0.680	ug/L			05/13/25 23:27	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/13/25 23:27	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/13/25 23:27	1
Methacrylonitrile	<10.0		10.0	3.30	ug/L			05/13/25 23:27	1
Methyl methacrylate	<2.00		2.00	0.760	ug/L			05/13/25 23:27	1
Methylene chloride	<5.00		5.00	1.70	ug/L			05/13/25 23:27	1
Naphthalene	<5.00		5.00	3.00	ug/L			05/13/25 23:27	1

Eurofins Cedar Falls

Client Sample Results

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

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North Unit

Client Sample ID: Trip Blank 1

Lab Sample ID: 310-306160-9

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)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propionitrile	<10.0		10.0	3.40	ug/L			05/13/25 23:27	1
Styrene	<1.00		1.00	0.370	ug/L			05/13/25 23:27	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/13/25 23:27	1
Toluene	<1.00		1.00	0.430	ug/L			05/13/25 23:27	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/13/25 23:27	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/13/25 23:27	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/13/25 23:27	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/13/25 23:27	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/13/25 23:27	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/13/25 23:27	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/13/25 23:27	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/13/25 23:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	111		76 - 130		05/13/25 23:27	1
Toluene-d8 (Surr)	97		80 - 120		05/13/25 23:27	1
4-Bromofluorobenzene (Surr)	98		80 - 120		05/13/25 23:27	1

Client Sample Results

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

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North Unit

Client Sample ID: Trip Blank 2

Lab Sample ID: 310-306160-10

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			05/13/25 23:50	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/13/25 23:50	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/13/25 23:50	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/13/25 23:50	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/13/25 23:50	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/13/25 23:50	1
1,1-Dichloropropene	<1.00		1.00	0.430	ug/L			05/13/25 23:50	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/13/25 23:50	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			05/13/25 23:50	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			05/13/25 23:50	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			05/13/25 23:50	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/13/25 23:50	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/13/25 23:50	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/13/25 23:50	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			05/13/25 23:50	1
1,3-Dichloropropane	<1.00		1.00	0.400	ug/L			05/13/25 23:50	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/13/25 23:50	1
2,2-Dichloropropane	<4.00		4.00	0.690	ug/L			05/13/25 23:50	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/13/25 23:50	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/13/25 23:50	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/13/25 23:50	1
Acetone	<10.0		10.0	3.10	ug/L			05/13/25 23:50	1
Acrolein	<10.0		10.0	3.60	ug/L			05/13/25 23:50	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			05/13/25 23:50	1
Allyl chloride	<2.00		2.00	0.700	ug/L			05/13/25 23:50	1
Benzene	<0.500		0.500	0.220	ug/L			05/13/25 23:50	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/13/25 23:50	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/13/25 23:50	1
Bromoform	<5.00		5.00	0.780	ug/L			05/13/25 23:50	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/13/25 23:50	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/13/25 23:50	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/13/25 23:50	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/13/25 23:50	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/13/25 23:50	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/13/25 23:50	1
Chloroform	<3.00		3.00	1.30	ug/L			05/13/25 23:50	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/13/25 23:50	1
Chloroprene	<1.00		1.00	0.230	ug/L			05/13/25 23:50	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/13/25 23:50	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/13/25 23:50	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/13/25 23:50	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			05/13/25 23:50	1
Ethyl methacrylate	<2.00		2.00	0.680	ug/L			05/13/25 23:50	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/13/25 23:50	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/13/25 23:50	1
Methacrylonitrile	<10.0		10.0	3.30	ug/L			05/13/25 23:50	1
Methyl methacrylate	<2.00		2.00	0.760	ug/L			05/13/25 23:50	1
Methylene chloride	<5.00		5.00	1.70	ug/L			05/13/25 23:50	1
Naphthalene	<5.00		5.00	3.00	ug/L			05/13/25 23:50	1

Eurofins Cedar Falls

Client Sample Results

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

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North Unit

Client Sample ID: Trip Blank 2

Lab Sample ID: 310-306160-10

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)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propionitrile	<10.0		10.0	3.40	ug/L			05/13/25 23:50	1
Styrene	<1.00		1.00	0.370	ug/L			05/13/25 23:50	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/13/25 23:50	1
Toluene	<1.00		1.00	0.430	ug/L			05/13/25 23:50	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/13/25 23:50	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/13/25 23:50	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/13/25 23:50	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/13/25 23:50	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/13/25 23:50	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/13/25 23:50	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/13/25 23:50	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/13/25 23:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	112		76 - 130		05/13/25 23:50	1
Toluene-d8 (Surr)	97		80 - 120		05/13/25 23:50	1
4-Bromofluorobenzene (Surr)	98		80 - 120		05/13/25 23:50	1

Definitions/Glossary

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

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North Unit

Qualifiers

GC/MS VOA

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.

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-N 1st 2025 GW Sampling Event

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North 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)
310-306160-1	MW-8	112	92	97
310-306160-2	MW-1	113	93	99
310-306160-3	MW-17	113	94	96
310-306160-4	MW-19	116	92	97
310-306160-5	MW-20	115	91	97
310-306160-6	MW-21	112	97	97
310-306160-7	MW-32R	112	97	98
310-306160-8	MW-DN	111	98	97
310-306160-9	Trip Blank 1	111	97	98
310-306160-10	Trip Blank 2	112	97	98
LCS 310-454525/7	Lab Control Sample	96	99	100
LCS 310-454525/8	Lab Control Sample	109	96	99
LCS 310-454541/6	Lab Control Sample	104	100	96
LCS 310-454541/7	Lab Control Sample	112	98	98
MB 310-454525/6	Method Blank	112	95	98
MB 310-454541/5	Method Blank	111	98	98
Surrogate Legend				
DBFM = Dibromofluoromethane (Surr)				
TOL = Toluene-d8 (Surr)				
BFB = 4-Bromofluorobenzene (Surr)				

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCB1 (10-150)	TCX1 (17-150)
310-306160-6	MW-21	51	67
LCS 310-454688/2-A	Lab Control Sample	45	60
MB 310-454688/1-A	Method Blank	46	68
Surrogate Legend			
DCB = DCB Decachlorobiphenyl (Surr)			
TCX = Tetrachloro-m-xylene			

QC Sample Results

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

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North Unit

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

Lab Sample ID: MB 310-454525/6

Matrix: Water

Analysis Batch: 454525

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 20:39	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/13/25 20:39	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/13/25 20:39	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/13/25 20:39	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/13/25 20:39	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/13/25 20:39	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/13/25 20:39	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/13/25 20:39	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/13/25 20:39	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/13/25 20:39	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/13/25 20:39	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/13/25 20:39	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/13/25 20:39	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/13/25 20:39	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/13/25 20:39	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/13/25 20:39	1
Acetone	<10.0		10.0	3.10	ug/L			05/13/25 20:39	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			05/13/25 20:39	1
Benzene	<0.500		0.500	0.220	ug/L			05/13/25 20:39	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/13/25 20:39	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/13/25 20:39	1
Bromoform	<5.00		5.00	0.780	ug/L			05/13/25 20:39	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/13/25 20:39	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/13/25 20:39	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/13/25 20:39	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/13/25 20:39	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/13/25 20:39	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/13/25 20:39	1
Chloroform	<3.00		3.00	1.30	ug/L			05/13/25 20:39	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/13/25 20:39	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/13/25 20:39	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/13/25 20:39	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/13/25 20:39	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/13/25 20:39	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/13/25 20:39	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/13/25 20:39	1
Styrene	<1.00		1.00	0.370	ug/L			05/13/25 20:39	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/13/25 20:39	1
Toluene	<1.00		1.00	0.430	ug/L			05/13/25 20:39	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/13/25 20:39	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/13/25 20:39	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/13/25 20:39	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/13/25 20:39	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/13/25 20:39	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/13/25 20:39	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/13/25 20:39	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/13/25 20:39	1

Eurofins Cedar Falls

QC Sample Results

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

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North Unit

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

Lab Sample ID: MB 310-454525/6

Matrix: Water

Analysis Batch: 454525

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	112		76 - 130		05/13/25 20:39	1
Toluene-d8 (Surr)	95		80 - 120		05/13/25 20:39	1
4-Bromofluorobenzene (Surr)	98		80 - 120		05/13/25 20:39	1

Lab Sample ID: LCS 310-454525/7

Matrix: Water

Analysis Batch: 454525

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	19.99		ug/L		100	70 - 121
1,1,1-Trichloroethane	20.0	19.92		ug/L		100	69 - 130
1,1,1,2,2-Tetrachloroethane	20.0	18.41		ug/L		92	70 - 122
1,1,2-Trichloroethane	20.0	19.09		ug/L		95	75 - 121
1,1-Dichloroethane	20.0	20.92		ug/L		105	69 - 127
1,1-Dichloroethene	20.0	21.66		ug/L		108	64 - 134
1,2,3-Trichloropropane	20.0	19.00		ug/L		95	70 - 122
1,2-Dibromo-3-Chloropropane	20.0	19.49		ug/L		97	62 - 132
1,2-Dibromoethane (EDB)	20.0	17.96		ug/L		90	74 - 122
1,2-Dichlorobenzene	20.0	19.78		ug/L		99	74 - 120
1,2-Dichloroethane	20.0	21.42		ug/L		107	68 - 125
1,2-Dichloropropane	20.0	19.97		ug/L		100	72 - 128
1,4-Dichlorobenzene	20.0	19.36		ug/L		97	72 - 120
2-Butanone (MEK)	40.0	46.95		ug/L		117	60 - 134
2-Hexanone	40.0	39.21		ug/L		98	62 - 139
4-Methyl-2-pentanone (MIBK)	40.0	41.76		ug/L		104	62 - 136
Acetone	40.0	49.48		ug/L		124	59 - 136
Acrylonitrile	200	209.1		ug/L		105	50 - 150
Benzene	20.0	20.26		ug/L		101	71 - 125
Bromochloromethane	20.0	20.31		ug/L		102	69 - 131
Bromodichloromethane	20.0	19.18		ug/L		96	70 - 122
Bromoform	20.0	19.04		ug/L		95	62 - 122
Carbon disulfide	20.0	21.94		ug/L		110	58 - 137
Carbon tetrachloride	20.0	21.71		ug/L		109	63 - 136
Chlorobenzene	20.0	19.30		ug/L		97	74 - 120
Chlorodibromomethane	20.0	18.06		ug/L		90	69 - 121
Chloroform	20.0	21.35		ug/L		107	72 - 122
cis-1,2-Dichloroethene	20.0	20.50		ug/L		103	72 - 123
cis-1,3-Dichloropropene	20.0	17.93		ug/L		90	72 - 123
Dibromomethane	20.0	21.07		ug/L		105	72 - 122
Ethylbenzene	20.0	20.18		ug/L		101	75 - 120
Iodomethane	20.0	15.50		ug/L		78	18 - 150
Methylene Chloride	20.0	21.50		ug/L		107	72 - 128
Styrene	20.0	17.85		ug/L		89	74 - 122
Tetrachloroethene	20.0	20.30		ug/L		102	70 - 128
Toluene	20.0	20.42		ug/L		102	74 - 120
trans-1,2-Dichloroethene	20.0	21.13		ug/L		106	67 - 127
trans-1,3-Dichloropropene	20.0	17.14		ug/L		86	67 - 123
trans-1,4-Dichloro-2-butene	20.0	17.43		ug/L		87	50 - 150

Eurofins Cedar Falls

QC Sample Results

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

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North Unit

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

Lab Sample ID: LCS 310-454525/7

Matrix: Water

Analysis Batch: 454525

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	19.10		ug/L		95	70 - 128
Vinyl acetate	40.0	33.07		ug/L		83	50 - 150
Xylenes, Total	40.0	39.50		ug/L		99	74 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	96		76 - 130
Toluene-d8 (Surr)	99		80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120

Lab Sample ID: LCS 310-454525/8

Matrix: Water

Analysis Batch: 454525

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	15.27		ug/L		76	33 - 138
Chloroethane	20.0	17.57		ug/L		88	59 - 139
Chloromethane	20.0	18.99		ug/L		95	52 - 146
Trichlorofluoromethane	20.0	18.61		ug/L		93	55 - 150
Vinyl chloride	20.0	17.52		ug/L		88	60 - 142

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	109		76 - 130
Toluene-d8 (Surr)	96		80 - 120
4-Bromofluorobenzene (Surr)	99		80 - 120

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
1,1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/13/25 22:18	1
1,1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/13/25 22:18	1
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
1,1-Dichloropropene	<1.00		1.00	0.430	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
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	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-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
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			05/13/25 22:18	1
1,3-Dichloropropane	<1.00		1.00	0.400	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

Eurofins Cedar Falls

QC Sample Results

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

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North 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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	<4.00		4.00	0.690	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
Acrolein	<10.0		10.0	3.60	ug/L			05/13/25 22:18	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			05/13/25 22:18	1
Allyl chloride	<2.00		2.00	0.700	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
Chloroprene	<1.00		1.00	0.230	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
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			05/13/25 22:18	1
Ethyl methacrylate	<2.00		2.00	0.680	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
Methacrylonitrile	<10.0		10.0	3.30	ug/L			05/13/25 22:18	1
Methyl methacrylate	<2.00		2.00	0.760	ug/L			05/13/25 22:18	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/13/25 22:18	1
Methylene chloride	<5.00		5.00	1.70	ug/L			05/13/25 22:18	1
Naphthalene	<5.00		5.00	3.00	ug/L			05/13/25 22:18	1
Propionitrile	<10.0		10.0	3.40	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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	111		76 - 130		05/13/25 22:18	1

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QC Sample Results

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

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North 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
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
1,1,2,2-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
1,1-Dichloropropene	20.0	20.32		ug/L		102	70 - 133
1,2,3-Trichloropropane	20.0	19.04		ug/L		95	70 - 122
1,2,4-Trichlorobenzene	20.0	17.99		ug/L		90	69 - 125
1,2-Dibromo-3-Chloropropane	20.0	18.52		ug/L		93	62 - 132
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
1,3-Dichlorobenzene	20.0	18.56		ug/L		93	71 - 120
1,3-Dichloropropane	20.0	19.64		ug/L		98	72 - 125
1,4-Dichlorobenzene	20.0	18.44		ug/L		92	72 - 120
2,2-Dichloropropane	20.0	19.94		ug/L		100	51 - 146
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
Acrolein	94.8	100.5		ug/L		106	50 - 150
Acrylonitrile	200	231.5		ug/L		116	50 - 150
Allyl chloride	20.0	20.92		ug/L		105	61 - 136
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
Chloroprene	20.0	21.31		ug/L		107	67 - 136
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
Ethyl methacrylate	20.0	20.31		ug/L		102	68 - 128

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QC Sample Results

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

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North 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
Ethylbenzene	20.0	20.34		ug/L		102	75 - 120
Iodomethane	20.0	11.50		ug/L		57	18 - 150
Methacrylonitrile	200	192.7		ug/L		96	67 - 128
Methyl methacrylate	40.0	41.62		ug/L		104	69 - 129
Methylene Chloride	20.0	20.28		ug/L		101	72 - 128
Methylene chloride	20.0	20.28		ug/L		101	72 - 128
Naphthalene	20.0	19.39		ug/L		97	69 - 126
Propionitrile	200	219.1		ug/L		110	68 - 131
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
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	LCS %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
Dichlorodifluoromethane	20.0	23.48		ug/L		117	45 - 150
Trichlorofluoromethane	20.0	22.58		ug/L		113	55 - 150
Vinyl chloride	20.0	20.64		ug/L		103	60 - 142

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

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 310-454688/1-A

Matrix: Water

Analysis Batch: 454627

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 454688

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	<0.0983		0.0983	0.0197	ug/L		05/14/25 12:40	05/14/25 17:19	1

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QC Sample Results

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

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North Unit

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 310-454688/1-A

Matrix: Water

Analysis Batch: 454627

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 454688

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	<0.0983		0.0983	0.0315	ug/L		05/14/25 12:40	05/14/25 17:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	46		10 - 150				05/14/25 12:40	05/14/25 17:19	1
Tetrachloro-m-xylene	68		17 - 150				05/14/25 12:40	05/14/25 17:19	1

Lab Sample ID: LCS 310-454688/2-A

Matrix: Water

Analysis Batch: 454627

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 454688

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDT	2.78	2.087		ug/L		75	10 - 150
Methoxychlor	2.78	2.300		ug/L		83	16 - 150
Surrogate	%Recovery	Qualifier	Limits				
DCB Decachlorobiphenyl (Surr)	45		10 - 150				
Tetrachloro-m-xylene	60		17 - 150				

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-454568/1-A

Matrix: Water

Analysis Batch: 454894

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 454568

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		05/14/25 09:00	05/15/25 15:25	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/14/25 09:00	05/15/25 15:25	1
Barium	<0.00200		0.00200	0.000660	mg/L		05/14/25 09:00	05/15/25 15:25	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/14/25 09:00	05/15/25 15:25	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/14/25 09:00	05/15/25 15:25	1
Chromium	<0.00500		0.00500	0.00180	mg/L		05/14/25 09:00	05/15/25 15:25	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/14/25 09:00	05/15/25 15:25	1
Copper	<0.00500		0.00500	0.00320	mg/L		05/14/25 09:00	05/15/25 15:25	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/14/25 09:00	05/15/25 15:25	1
Nickel	<0.00500		0.00500	0.00230	mg/L		05/14/25 09:00	05/15/25 15:25	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/14/25 09:00	05/15/25 15:25	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/14/25 09:00	05/15/25 15:25	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/14/25 09:00	05/15/25 15:25	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		05/14/25 09:00	05/15/25 15:25	1
Zinc	<0.0200		0.0200	0.0130	mg/L		05/14/25 09:00	05/15/25 15:25	1

Lab Sample ID: LCS 310-454568/2-A

Matrix: Water

Analysis Batch: 454894

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 454568

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.200	0.2045		mg/L		102	80 - 120
Arsenic	0.200	0.1917		mg/L		96	80 - 120
Barium	0.100	0.09564		mg/L		96	80 - 120

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QC Sample Results

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

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North Unit

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

Lab Sample ID: LCS 310-454568/2-A

Matrix: Water

Analysis Batch: 454894

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 454568

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				Limits
Beryllium	0.100	0.08918		mg/L		89	80 - 120
Cadmium	0.100	0.09394		mg/L		94	80 - 120
Chromium	0.100	0.09542		mg/L		95	80 - 120
Cobalt	0.100	0.09975		mg/L		100	80 - 120
Copper	0.200	0.1965		mg/L		98	80 - 120
Lead	0.200	0.1931		mg/L		97	80 - 120
Nickel	0.200	0.1891		mg/L		95	80 - 120
Selenium	0.400	0.3624		mg/L		91	80 - 120
Silver	0.100	0.1137		mg/L		114	80 - 120
Thallium	0.100	0.08688		mg/L		87	80 - 120
Vanadium	0.100	0.09447		mg/L		94	80 - 120
Zinc	0.200	0.1771		mg/L		89	80 - 120

Lab Sample ID: MB 310-454569/1-A

Matrix: Water

Analysis Batch: 454894

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 454569

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.00200		0.00200	0.00100	mg/L		05/14/25 09:00	05/15/25 16:50	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/14/25 09:00	05/15/25 16:50	1
Barium	<0.00200		0.00200	0.000660	mg/L		05/14/25 09:00	05/15/25 16:50	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/14/25 09:00	05/15/25 16:50	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/14/25 09:00	05/15/25 16:50	1
Chromium	<0.00500		0.00500	0.00180	mg/L		05/14/25 09:00	05/15/25 16:50	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/14/25 09:00	05/15/25 16:50	1
Copper	<0.00500		0.00500	0.00320	mg/L		05/14/25 09:00	05/15/25 16:50	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/14/25 09:00	05/15/25 16:50	1
Nickel	<0.00500		0.00500	0.00230	mg/L		05/14/25 09:00	05/15/25 16:50	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/14/25 09:00	05/15/25 16:50	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/14/25 09:00	05/15/25 16:50	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/14/25 09:00	05/15/25 16:50	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		05/14/25 09:00	05/15/25 16:50	1
Zinc	<0.0200		0.0200	0.0130	mg/L		05/14/25 09:00	05/15/25 16:50	1

Lab Sample ID: LCS 310-454569/2-A

Matrix: Water

Analysis Batch: 454894

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 454569

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				Limits
Antimony	0.200	0.2041		mg/L		102	80 - 120
Arsenic	0.200	0.1903		mg/L		95	80 - 120
Barium	0.100	0.09508		mg/L		95	80 - 120
Beryllium	0.100	0.08549		mg/L		85	80 - 120
Cadmium	0.100	0.09163		mg/L		92	80 - 120
Chromium	0.100	0.09269		mg/L		93	80 - 120
Cobalt	0.100	0.09562		mg/L		96	80 - 120
Copper	0.200	0.1898		mg/L		95	80 - 120
Lead	0.200	0.1894		mg/L		95	80 - 120
Nickel	0.200	0.1830		mg/L		91	80 - 120

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QC Sample Results

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

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North Unit

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

Lab Sample ID: LCS 310-454569/2-A

Matrix: Water

Analysis Batch: 454894

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 454569

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	0.400	0.3500		mg/L		88	80 - 120
Silver	0.100	0.1222	*+	mg/L		122	80 - 120
Thallium	0.100	0.08581		mg/L		86	80 - 120
Vanadium	0.100	0.09117		mg/L		91	80 - 120
Zinc	0.200	0.1724		mg/L		86	80 - 120

Lab Sample ID: 310-306160-6 MS

Matrix: Water

Analysis Batch: 454894

Client Sample ID: MW-21

Prep Type: Total/NA

Prep Batch: 454569

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.00108	J	0.200	0.2179		mg/L		108	75 - 125
Arsenic	0.00903		0.200	0.2172		mg/L		104	75 - 125
Barium	0.311		0.100	0.4308		mg/L		119	75 - 125
Beryllium	<0.00100		0.100	0.09466		mg/L		95	75 - 125
Cadmium	0.000358		0.100	0.09494		mg/L		95	75 - 125
Chromium	<0.00500		0.100	0.09345		mg/L		93	75 - 125
Cobalt	0.0155		0.100	0.1128		mg/L		97	75 - 125
Copper	<0.00500		0.200	0.1910		mg/L		95	75 - 125
Lead	<0.000500		0.200	0.1918		mg/L		96	75 - 125
Nickel	0.0369		0.200	0.2231		mg/L		93	75 - 125
Selenium	<0.00500		0.400	0.3795		mg/L		95	75 - 125
Silver	<0.00100	*+	0.100	0.1137		mg/L		114	75 - 125
Thallium	<0.00100		0.100	0.07650		mg/L		76	75 - 125
Vanadium	<0.00500		0.100	0.09666		mg/L		97	75 - 125
Zinc	<0.0200		0.200	0.1898		mg/L		95	75 - 125

Lab Sample ID: 310-306160-6 MSD

Matrix: Water

Analysis Batch: 454894

Client Sample ID: MW-21

Prep Type: Total/NA

Prep Batch: 454569

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Antimony	0.00108	J	0.200	0.2418		mg/L		120	75 - 125	10	20
Arsenic	0.00903		0.200	0.2395		mg/L		115	75 - 125	10	20
Barium	0.311		0.100	0.4263		mg/L		115	75 - 125	1	20
Beryllium	<0.00100		0.100	0.1041		mg/L		104	75 - 125	9	20
Cadmium	0.000358		0.100	0.1039		mg/L		104	75 - 125	9	20
Chromium	<0.00500		0.100	0.1024		mg/L		102	75 - 125	9	20
Cobalt	0.0155		0.100	0.1207		mg/L		105	75 - 125	7	20
Copper	<0.00500		0.200	0.2059		mg/L		103	75 - 125	8	20
Lead	<0.000500		0.200	0.2111		mg/L		106	75 - 125	10	20
Nickel	0.0369		0.200	0.2420		mg/L		103	75 - 125	8	20
Selenium	<0.00500		0.400	0.4171		mg/L		104	75 - 125	9	20
Silver	<0.00100	*+	0.100	0.1169		mg/L		117	75 - 125	3	20
Thallium	<0.00100		0.100	0.08004		mg/L		80	75 - 125	5	20
Vanadium	<0.00500		0.100	0.1065		mg/L		106	75 - 125	10	20
Zinc	<0.0200		0.200	0.2080		mg/L		104	75 - 125	9	20

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QC Sample Results

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

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North Unit

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

Lab Sample ID: MB 310-454511/1
Matrix: Water
Analysis Batch: 454511

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 10:39	1

Lab Sample ID: LCS 310-454511/2
Matrix: Water
Analysis Batch: 454511

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	105.0		mg/L		105	81 - 116

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

Lab Sample ID: LCS 310-454562/2
Matrix: Water
Analysis Batch: 454562

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	93.00		mg/L		93	81 - 116

QC Association Summary

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

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North Unit

GC/MS VOA

Analysis Batch: 454525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-306160-1	MW-8	Total/NA	Water	8260D	
310-306160-2	MW-1	Total/NA	Water	8260D	
310-306160-3	MW-17	Total/NA	Water	8260D	
310-306160-4	MW-19	Total/NA	Water	8260D	
310-306160-5	MW-20	Total/NA	Water	8260D	
MB 310-454525/6	Method Blank	Total/NA	Water	8260D	
LCS 310-454525/7	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-454525/8	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 454541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-306160-6	MW-21	Total/NA	Water	8260D	
310-306160-7	MW-32R	Total/NA	Water	8260D	
310-306160-8	MW-DN	Total/NA	Water	8260D	
310-306160-9	Trip Blank 1	Total/NA	Water	8260D	
310-306160-10	Trip Blank 2	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	

GC Semi VOA

Analysis Batch: 454627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-306160-6	MW-21	Total/NA	Water	8081B	454688
MB 310-454688/1-A	Method Blank	Total/NA	Water	8081B	454688
LCS 310-454688/2-A	Lab Control Sample	Total/NA	Water	8081B	454688

Prep Batch: 454688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-306160-6	MW-21	Total/NA	Water	3511	
MB 310-454688/1-A	Method Blank	Total/NA	Water	3511	
LCS 310-454688/2-A	Lab Control Sample	Total/NA	Water	3511	

Metals

Prep Batch: 454568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-306160-1	MW-8	Total/NA	Water	3005A	
310-306160-2	MW-1	Total/NA	Water	3005A	
310-306160-3	MW-17	Total/NA	Water	3005A	
310-306160-4	MW-19	Total/NA	Water	3005A	
310-306160-5	MW-20	Total/NA	Water	3005A	
MB 310-454568/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-454568/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 454569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-306160-6	MW-21	Total/NA	Water	3005A	
310-306160-7	MW-32R	Total/NA	Water	3005A	
310-306160-8	MW-DN	Total/NA	Water	3005A	
MB 310-454569/1-A	Method Blank	Total/NA	Water	3005A	

Eurofins Cedar Falls

QC Association Summary

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

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North Unit

Metals (Continued)

Prep Batch: 454569 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 310-454569/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-306160-6 MS	MW-21	Total/NA	Water	3005A	
310-306160-6 MSD	MW-21	Total/NA	Water	3005A	

Analysis Batch: 454894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-306160-1	MW-8	Total/NA	Water	6020B	454568
310-306160-2	MW-1	Total/NA	Water	6020B	454568
310-306160-3	MW-17	Total/NA	Water	6020B	454568
310-306160-4	MW-19	Total/NA	Water	6020B	454568
310-306160-5	MW-20	Total/NA	Water	6020B	454568
310-306160-6	MW-21	Total/NA	Water	6020B	454569
310-306160-7	MW-32R	Total/NA	Water	6020B	454569
310-306160-8	MW-DN	Total/NA	Water	6020B	454569
MB 310-454568/1-A	Method Blank	Total/NA	Water	6020B	454568
MB 310-454569/1-A	Method Blank	Total/NA	Water	6020B	454569
LCS 310-454568/2-A	Lab Control Sample	Total/NA	Water	6020B	454568
LCS 310-454569/2-A	Lab Control Sample	Total/NA	Water	6020B	454569
310-306160-6 MS	MW-21	Total/NA	Water	6020B	454569
310-306160-6 MSD	MW-21	Total/NA	Water	6020B	454569

General Chemistry

Analysis Batch: 454511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-306160-6	MW-21	Total/NA	Water	I-3765-85	
MB 310-454511/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-454511/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 454562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-306160-1	MW-8	Total/NA	Water	I-3765-85	
310-306160-2	MW-1	Total/NA	Water	I-3765-85	
310-306160-3	MW-17	Total/NA	Water	I-3765-85	
310-306160-4	MW-19	Total/NA	Water	I-3765-85	
310-306160-5	MW-20	Total/NA	Water	I-3765-85	
310-306160-7	MW-32R	Total/NA	Water	I-3765-85	
310-306160-8	MW-DN	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-N 1st 2025 GW Sampling Event

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North Unit

Client Sample ID: MW-8

Lab Sample ID: 310-306160-1

Date Collected: 05/08/25 18:33

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	454525	WSE8	EET CF	05/14/25 02:17
Total/NA	Prep	3005A			454568	QTZ5	EET CF	05/14/25 09:00
Total/NA	Analysis	6020B		1	454894	NFT2	EET CF	05/15/25 16:28
Total/NA	Analysis	I-3765-85		1	454562	XJ7V	EET CF	05/13/25 15:13

Client Sample ID: MW-1

Lab Sample ID: 310-306160-2

Date Collected: 05/08/25 12:48

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	454525	WSE8	EET CF	05/14/25 02:40
Total/NA	Prep	3005A			454568	QTZ5	EET CF	05/14/25 09:00
Total/NA	Analysis	6020B		1	454894	NFT2	EET CF	05/15/25 16:31
Total/NA	Analysis	I-3765-85		1	454562	XJ7V	EET CF	05/13/25 15:13

Client Sample ID: MW-17

Lab Sample ID: 310-306160-3

Date Collected: 05/08/25 14:21

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	454525	WSE8	EET CF	05/14/25 03:02
Total/NA	Prep	3005A			454568	QTZ5	EET CF	05/14/25 09:00
Total/NA	Analysis	6020B		1	454894	NFT2	EET CF	05/15/25 16:34
Total/NA	Analysis	I-3765-85		1	454562	XJ7V	EET CF	05/13/25 15:13

Client Sample ID: MW-19

Lab Sample ID: 310-306160-4

Date Collected: 05/08/25 16:50

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	454525	WSE8	EET CF	05/14/25 03:25
Total/NA	Prep	3005A			454568	QTZ5	EET CF	05/14/25 09:00
Total/NA	Analysis	6020B		1	454894	NFT2	EET CF	05/15/25 16:36
Total/NA	Analysis	I-3765-85		1	454562	XJ7V	EET CF	05/13/25 15:13

Client Sample ID: MW-20

Lab Sample ID: 310-306160-5

Date Collected: 05/08/25 13:40

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	454525	WSE8	EET CF	05/14/25 03:47
Total/NA	Prep	3005A			454568	QTZ5	EET CF	05/14/25 09:00
Total/NA	Analysis	6020B		1	454894	NFT2	EET CF	05/15/25 16:39
Total/NA	Analysis	I-3765-85		1	454562	XJ7V	EET CF	05/13/25 15:13

Eurofins Cedar Falls

Lab Chronicle

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

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North Unit

Client Sample ID: MW-21

Lab Sample ID: 310-306160-6

Date Collected: 05/08/25 15:01

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 00:36
Total/NA	Prep	3511			454688	BW2O	EET CF	05/14/25 12:40
Total/NA	Analysis	8081B		1	454627	BW2O	EET CF	05/14/25 20:21
Total/NA	Prep	3005A			454569	QTZ5	EET CF	05/14/25 09:00
Total/NA	Analysis	6020B		1	454894	NFT2	EET CF	05/15/25 16:55
Total/NA	Analysis	I-3765-85		1	454511	HE7K	EET CF	05/13/25 10:39

Client Sample ID: MW-32R

Lab Sample ID: 310-306160-7

Date Collected: 05/08/25 12:01

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 00:58
Total/NA	Prep	3005A			454569	QTZ5	EET CF	05/14/25 09:00
Total/NA	Analysis	6020B		1	454894	NFT2	EET CF	05/15/25 17:05
Total/NA	Analysis	I-3765-85		1	454562	XJ7V	EET CF	05/13/25 15:13

Client Sample ID: MW-DN

Lab Sample ID: 310-306160-8

Date Collected: 05/08/25 13:40

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 01:21
Total/NA	Prep	3005A			454569	QTZ5	EET CF	05/14/25 09:00
Total/NA	Analysis	6020B		1	454894	NFT2	EET CF	05/15/25 17:08
Total/NA	Analysis	I-3765-85		1	454562	XJ7V	EET CF	05/13/25 15:13

Client Sample ID: Trip Blank 1

Lab Sample ID: 310-306160-9

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	05/13/25 23:27

Client Sample ID: Trip Blank 2

Lab Sample ID: 310-306160-10

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	05/13/25 23:50

Laboratory References:

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

Eurofins Cedar Falls

Accreditation/Certification Summary

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

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North Unit

Laboratory: Eurofins Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8260D		Water	1,2,4-Trichlorobenzene
8260D		Water	Allyl chloride
8260D		Water	Ethyl methacrylate

Method Summary

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

Job ID: 310-306160-1
SDG: WRD Sanitary Landfill - North Unit

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
8081B	Organochlorine Pesticides (GC)	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
3511	Microextraction of Organic Compounds	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.

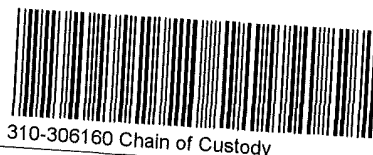
USGS = "Methods For Analysis Of Water And Fluvial Sediments", USGS, 1989

Laboratory References:

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



Environment Testing
America



310-306160 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: <u>9/9/25</u> <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?		If yes: Cooler ID.	
☒ Yes ☐ No			
Multiple Coolers?		If yes: Cooler # <u>2</u> of <u>2</u>	
☒ Yes ☐ No			
Cooler Custody Seals Present?		If yes: Cooler custody seals intact? ☐ Yes ☐ No	
☒ Yes ☒ No			
Sample Custody Seals Present?		If yes: Sample custody seals intact? ☐ Yes ☐ No	
☐ Yes ☒ No			
Trip Blank Present?		If yes: Which VOA samples are in cooler? ↓	
☒ Yes ☐ No			
<u>WTB-2 MW-21, MW-DN</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			



Environment Testing
America

Place COC scanning label
here

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: <u>9/4/25</u> <u>1600</u>		Received By: <u>KB</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>2</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>WTB1 MW-8, MW-1, MW-17, MW19, MW20, MW-32R</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>0.2</u>		Corrected Temp (°C) <u>0.2</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			

Chain of Custody Record



TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact		Project Manager: Sean Marczewski		Site Contact: Sean Marczewski		Date:		COC No	
SCS Engineers		Email: smarczewski@scsengineers.com		Lab Contact: Sam Miller		Carrier:		Sampler	
1690 All-State Court, Suite 100		Cell 712-661-9682						For Lab Use Only:	
West Des Moines, IA 50265		☐ CALENDAR DAYS ☐ WORKING DAYS						Walk-in Client:	
515-631-6160		Analysis Turnaround Time						Lab Sampling	
		Other: ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day						Job / SDG No	
Project Name: WRD-N 1st 2025 GW Sampling Event									
Site: WRD Sanitary Landfill - North Unit									
P O # 27224309 25									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes		
MW-8	5-8	14:33	G	GW					
MW-1		12:48	G	GW					
MW-17		14:21	G	GW					
MW-19		16:50	G	GW					
MW-20		13:40	G	GW					
MW-21		15:01	G	GW					
MW-32R		12:01	G	GW					
MW-DN		13:40	G	GW					
Trip Blank									
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other							Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		
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							☐ Return to Client ☐ Disposal by Lab ☐ Archive for Months		
Special Instructions/QC Requirements & Comments:									
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.		Cooler Temp (°C) Obs'd		Corr'd		Therm ID No	
Relinquished by: <u>Georgette Horvath</u>		Company: <u>SCS</u>		Date/Time: <u>5/9/20</u>		Received by:		Company:	
Relinquished by:		Company:		Date/Time:		Received by:		Company:	
Relinquished by:		Company:		Date/Time:		Received in Laboratory by: <u>[Signature]</u>		Date/Time: <u>5/9/25 1600</u>	



Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-306160-1

SDG Number: WRD Sanitary Landfill - North Unit

Login Number: 306160

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 11/25/2025 11:04:33 AM

JOB DESCRIPTION

WRD North - 2nd 2025 GW Sampling Event
WRD North

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



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11/25/2025 11:04:33 AM

Authorized for release by
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Case Narrative

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

Job ID: 310-320348-1

Job ID: 310-320348-1

Eurofins Cedar Falls

Job Narrative 310-320348-1

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 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.

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 North - 2nd 2025 GW Sampling Event

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
310-320348-1	MW-8	Water	11/10/25 12:44	11/12/25 15:20	Iowa
310-320348-2	MW-1	Water	11/10/25 13:53	11/12/25 15:20	Iowa
310-320348-3	MW-17	Water	11/10/25 15:45	11/12/25 15:20	Iowa
310-320348-4	MW-19	Water	11/11/25 11:03	11/12/25 15:20	Iowa
310-320348-5	MW-20	Water	11/10/25 15:10	11/12/25 15:20	Iowa
310-320348-6	MW-21	Water	11/11/25 11:35	11/12/25 15:20	Iowa
310-320348-7	MW-32R	Water	11/10/25 13:18	11/12/25 15:20	Iowa
310-320348-8	MW-DN	Water	11/10/25 15:10	11/12/25 15:20	Iowa
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
310-320348-11	Trip Blank 1	Water	11/11/25 00:00	11/12/25 15:20	Iowa
310-320348-12	Trip Blank 2	Water	11/11/25 00:00	11/12/25 15:20	Iowa
310-320348-13	Trip Blank 3	Water	11/11/25 00:00	11/12/25 15:20	Iowa

Detection Summary

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

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

Client Sample ID: MW-8

Lab Sample ID: 310-320348-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00106	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0285		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000473		0.000200	0.000100	mg/L	1		6020B	Total/NA
Chromium	0.00225	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Cobalt	0.00642		0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.000526		0.000500	0.000330	mg/L	1		6020B	Total/NA
Nickel	0.0335		0.00500	0.00230	mg/L	1		6020B	Total/NA
Vanadium	0.00180	J	0.00500	0.00170	mg/L	1		6020B	Total/NA
Zinc	0.0541		0.0200	0.0130	mg/L	1		6020B	Total/NA
Total Suspended Solids	20.6		1.88	1.31	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-1

Lab Sample ID: 310-320348-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.712	J	1.00	0.400	ug/L	1		8260D	Total/NA
Acetone	5.43	J	10.0	3.80	ug/L	1		8260D	Total/NA
Benzene	0.589		0.500	0.220	ug/L	1		8260D	Total/NA
Arsenic	0.00442		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.490		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000373	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Vanadium	0.00196	J	0.00500	0.00170	mg/L	1		6020B	Total/NA
Total Suspended Solids	58.0		15.0	10.5	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-17

Lab Sample ID: 310-320348-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.000551	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0497		0.00200	0.000660	mg/L	1		6020B	Total/NA
Chromium	0.00214	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Nickel	0.00290	J	0.00500	0.00230	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-19

Lab Sample ID: 310-320348-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.00103	J	0.00200	0.00100	mg/L	1		6020B	Total/NA
Arsenic	0.000904	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.127		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000226		0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.00339		0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.00391	J	0.00500	0.00320	mg/L	1		6020B	Total/NA
Lead	0.000658		0.000500	0.000330	mg/L	1		6020B	Total/NA
Nickel	0.00951		0.00500	0.00230	mg/L	1		6020B	Total/NA
Vanadium	0.00253	J	0.00500	0.00170	mg/L	1		6020B	Total/NA
Total Suspended Solids	62.5		2.50	1.75	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-20

Lab Sample ID: 310-320348-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.00123	J	0.00200	0.00100	mg/L	1		6020B	Total/NA
Arsenic	0.000609	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0863		0.00200	0.000660	mg/L	1		6020B	Total/NA
Selenium	0.00438	J	0.00500	0.00140	mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

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

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

Client Sample ID: MW-20 (Continued)

Lab Sample ID: 310-320348-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Vanadium	0.00214	J	0.00500	0.00170	mg/L	1			6020B	Total/NA
Total Suspended Solids	2.50		1.88	1.31	mg/L	1			I-3765-85	Total/NA

Client Sample ID: MW-21

Lab Sample ID: 310-320348-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,4-Dichlorobenzene	0.718	J	1.00	0.490	ug/L	1			8260D	Total/NA
Benzene	0.342	J	0.500	0.220	ug/L	1			8260D	Total/NA
Chlorobenzene	0.423	J	1.00	0.350	ug/L	1			8260D	Total/NA
cis-1,2-Dichloroethene	0.759	J	1.00	0.550	ug/L	1			8260D	Total/NA
Arsenic	0.0101		0.00200	0.000530	mg/L	1			6020B	Total/NA
Barium	0.592		0.00200	0.000660	mg/L	1			6020B	Total/NA
Cobalt	0.0162		0.000500	0.000170	mg/L	1			6020B	Total/NA
Nickel	0.0439		0.00500	0.00230	mg/L	1			6020B	Total/NA
Total Suspended Solids	8.83		2.50	1.75	mg/L	1			I-3765-85	Total/NA

Client Sample ID: MW-32R

Lab Sample ID: 310-320348-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Vinyl chloride	1.24		1.00	0.430	ug/L	1			8260D	Total/NA
Cobalt	0.0132		0.000500	0.000170	mg/L	1			6020B	Total/NA
Total Suspended Solids	5.13		1.88	1.31	mg/L	1			I-3765-85	Total/NA

Client Sample ID: MW-DN

Lab Sample ID: 310-320348-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Barium	0.0775		0.00200	0.000660	mg/L	1			6020B	Total/NA
Selenium	0.00399	J	0.00500	0.00140	mg/L	1			6020B	Total/NA
Vanadium	0.00203	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-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 1

Lab Sample ID: 310-320348-11

No Detections.

Client Sample ID: Trip Blank 2

Lab Sample ID: 310-320348-12

No Detections.

This Detection Summary does not include radiochemical test results.

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11/25/2025

Client Sample Results

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

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

Client Sample ID: MW-8

Lab Sample ID: 310-320348-1

Date Collected: 11/10/25 12:44

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 08:23	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/15/25 08:23	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/15/25 08:23	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/15/25 08:23	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/15/25 08:23	1
1,1-Dichloroethene	<2.00	F2	2.00	0.460	ug/L			11/15/25 08:23	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/15/25 08:23	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			11/15/25 08:23	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			11/15/25 08:23	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/15/25 08:23	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/15/25 08:23	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/15/25 08:23	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/15/25 08:23	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/15/25 08:23	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/15/25 08:23	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/15/25 08:23	1
Acetone	<10.0	F1	10.0	3.80	ug/L			11/15/25 08:23	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			11/15/25 08:23	1
Benzene	<0.500		0.500	0.220	ug/L			11/15/25 08:23	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/15/25 08:23	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/15/25 08:23	1
Bromoform	<5.00		5.00	2.60	ug/L			11/15/25 08:23	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/15/25 08:23	1
Carbon disulfide	<1.00	F2	1.00	0.450	ug/L			11/15/25 08:23	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/15/25 08:23	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/15/25 08:23	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/15/25 08:23	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/15/25 08:23	1
Chloroform	<3.00		3.00	1.30	ug/L			11/15/25 08:23	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/15/25 08:23	1
cis-1,2-Dichloroethene	<1.00	F2	1.00	0.550	ug/L			11/15/25 08:23	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/15/25 08:23	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/15/25 08:23	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/15/25 08:23	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/15/25 08:23	1
Methylene chloride	<5.00		5.00	1.70	ug/L			11/15/25 08:23	1
Styrene	<1.00		1.00	0.370	ug/L			11/15/25 08:23	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/15/25 08:23	1
Toluene	<1.00		1.00	0.430	ug/L			11/15/25 08:23	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/15/25 08:23	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/15/25 08:23	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/15/25 08:23	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/15/25 08:23	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/15/25 08:23	1
Vinyl acetate	<10.0	F1	10.0	7.10	ug/L			11/15/25 08:23	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/15/25 08:23	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/15/25 08:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	121		76 - 130		11/15/25 08:23	1

Eurofins Cedar Falls

Client Sample Results

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

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

Client Sample ID: MW-8

Lab Sample ID: 310-320348-1

Date Collected: 11/10/25 12:44

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 08:23	1
4-Bromofluorobenzene (Surr)	102		80 - 120		11/15/25 08:23	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 15:42	1
Arsenic	0.00106	J	0.00200	0.000530	mg/L		11/17/25 08:30	11/24/25 02:15	1
Barium	0.0285		0.00200	0.000660	mg/L		11/17/25 08:30	11/24/25 02:15	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/17/25 08:30	11/24/25 02:15	1
Cadmium	0.000473		0.000200	0.000100	mg/L		11/17/25 08:30	11/24/25 02:15	1
Chromium	0.00225	J	0.00500	0.00180	mg/L		11/17/25 08:30	11/24/25 02:15	1
Cobalt	0.00642		0.000500	0.000170	mg/L		11/17/25 08:30	11/24/25 02:15	1
Copper	<0.00500		0.00500	0.00320	mg/L		11/17/25 08:30	11/24/25 02:15	1
Lead	0.000526		0.000500	0.000330	mg/L		11/17/25 08:30	11/24/25 02:15	1
Nickel	0.0335		0.00500	0.00230	mg/L		11/17/25 08:30	11/24/25 02:15	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/17/25 08:30	11/24/25 02:15	1
Silver	<0.00100	*+	0.00100	0.000500	mg/L		11/17/25 08:30	11/24/25 02:15	1
Thallium	<0.00100	^1+	0.00100	0.000570	mg/L		11/17/25 08:30	11/24/25 02:15	1
Vanadium	0.00180	J	0.00500	0.00170	mg/L		11/17/25 08:30	11/24/25 02:15	1
Zinc	0.0541		0.0200	0.0130	mg/L		11/17/25 08:30	11/24/25 15:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	20.6		1.88	1.31	mg/L			11/13/25 07:18	1

Client Sample Results

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

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

Client Sample ID: MW-1

Lab Sample ID: 310-320348-2

Date Collected: 11/10/25 13:53

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 08:45	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/15/25 08:45	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/15/25 08:45	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/15/25 08:45	1
1,1-Dichloroethane	0.712	J	1.00	0.400	ug/L			11/15/25 08:45	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/15/25 08:45	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/15/25 08:45	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			11/15/25 08:45	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			11/15/25 08:45	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/15/25 08:45	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/15/25 08:45	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/15/25 08:45	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/15/25 08:45	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/15/25 08:45	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/15/25 08:45	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/15/25 08:45	1
Acetone	5.43	J	10.0	3.80	ug/L			11/15/25 08:45	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			11/15/25 08:45	1
Benzene	0.589		0.500	0.220	ug/L			11/15/25 08:45	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/15/25 08:45	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/15/25 08:45	1
Bromoform	<5.00		5.00	2.60	ug/L			11/15/25 08:45	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/15/25 08:45	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/15/25 08:45	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/15/25 08:45	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/15/25 08:45	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/15/25 08:45	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/15/25 08:45	1
Chloroform	<3.00		3.00	1.30	ug/L			11/15/25 08:45	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/15/25 08:45	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/15/25 08:45	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/15/25 08:45	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/15/25 08:45	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/15/25 08:45	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/15/25 08:45	1
Methylene chloride	<5.00		5.00	1.70	ug/L			11/15/25 08:45	1
Styrene	<1.00		1.00	0.370	ug/L			11/15/25 08:45	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/15/25 08:45	1
Toluene	<1.00		1.00	0.430	ug/L			11/15/25 08:45	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/15/25 08:45	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/15/25 08:45	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/15/25 08:45	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/15/25 08:45	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/15/25 08:45	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/15/25 08:45	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/15/25 08:45	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/15/25 08:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	119		76 - 130		11/15/25 08:45	1

Eurofins Cedar Falls

Client Sample Results

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

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

Client Sample ID: MW-1

Lab Sample ID: 310-320348-2

Date Collected: 11/10/25 13:53

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)	97		80 - 120		11/15/25 08:45	1
4-Bromofluorobenzene (Surr)	100		80 - 120		11/15/25 08:45	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 15:44	1
Arsenic	0.00442		0.00200	0.000530	mg/L		11/17/25 08:30	11/24/25 02:18	1
Barium	0.490		0.00200	0.000660	mg/L		11/17/25 08:30	11/24/25 02:18	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/17/25 08:30	11/24/25 02:18	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/17/25 08:30	11/24/25 02:18	1
Chromium	<0.00500		0.00500	0.00180	mg/L		11/17/25 08:30	11/24/25 02:18	1
Cobalt	0.000373	J	0.000500	0.000170	mg/L		11/17/25 08:30	11/24/25 02:18	1
Copper	<0.00500		0.00500	0.00320	mg/L		11/17/25 08:30	11/24/25 02:18	1
Lead	<0.000500		0.000500	0.000330	mg/L		11/17/25 08:30	11/24/25 02:18	1
Nickel	<0.00500		0.00500	0.00230	mg/L		11/17/25 08:30	11/24/25 02:18	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/17/25 08:30	11/24/25 02:18	1
Silver	<0.00100	*+	0.00100	0.000500	mg/L		11/17/25 08:30	11/24/25 02:18	1
Thallium	<0.00100	^1+	0.00100	0.000570	mg/L		11/17/25 08:30	11/24/25 02:18	1
Vanadium	0.00196	J	0.00500	0.00170	mg/L		11/17/25 08:30	11/24/25 02:18	1
Zinc	<0.0200		0.0200	0.0130	mg/L		11/17/25 08:30	11/24/25 15:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	58.0		15.0	10.5	mg/L			11/13/25 07:18	1

Client Sample Results

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

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

Client Sample ID: MW-17

Lab Sample ID: 310-320348-3

Date Collected: 11/10/25 15:45

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 09:07	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/15/25 09:07	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/15/25 09:07	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/15/25 09:07	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/15/25 09:07	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/15/25 09:07	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/15/25 09:07	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			11/15/25 09:07	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			11/15/25 09:07	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/15/25 09:07	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/15/25 09:07	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/15/25 09:07	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/15/25 09:07	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/15/25 09:07	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/15/25 09:07	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/15/25 09:07	1
Acetone	<10.0		10.0	3.80	ug/L			11/15/25 09:07	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			11/15/25 09:07	1
Benzene	<0.500		0.500	0.220	ug/L			11/15/25 09:07	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/15/25 09:07	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/15/25 09:07	1
Bromoform	<5.00		5.00	2.60	ug/L			11/15/25 09:07	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/15/25 09:07	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/15/25 09:07	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/15/25 09:07	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/15/25 09:07	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/15/25 09:07	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/15/25 09:07	1
Chloroform	<3.00		3.00	1.30	ug/L			11/15/25 09:07	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/15/25 09:07	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/15/25 09:07	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/15/25 09:07	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/15/25 09:07	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/15/25 09:07	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/15/25 09:07	1
Methylene chloride	<5.00		5.00	1.70	ug/L			11/15/25 09:07	1
Styrene	<1.00		1.00	0.370	ug/L			11/15/25 09:07	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/15/25 09:07	1
Toluene	<1.00		1.00	0.430	ug/L			11/15/25 09:07	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/15/25 09:07	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/15/25 09:07	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/15/25 09:07	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/15/25 09:07	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/15/25 09:07	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/15/25 09:07	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/15/25 09:07	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/15/25 09:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	119		76 - 130		11/15/25 09:07	1

Eurofins Cedar Falls

Client Sample Results

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

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

Client Sample ID: MW-17

Lab Sample ID: 310-320348-3

Date Collected: 11/10/25 15:45

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 09:07	1
4-Bromofluorobenzene (Surr)	99		80 - 120		11/15/25 09:07	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		11/17/25 08:30	11/24/25 15:47	1
Arsenic	0.000551	J	0.00200	0.000530	mg/L		11/17/25 08:30	11/24/25 02:21	1
Barium	0.0497		0.00200	0.000660	mg/L		11/17/25 08:30	11/24/25 02:21	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/17/25 08:30	11/24/25 02:21	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/17/25 08:30	11/24/25 02:21	1
Chromium	0.00214	J	0.00500	0.00180	mg/L		11/17/25 08:30	11/24/25 02:21	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		11/17/25 08:30	11/24/25 02:21	1
Copper	<0.00500		0.00500	0.00320	mg/L		11/17/25 08:30	11/24/25 02:21	1
Lead	<0.000500		0.000500	0.000330	mg/L		11/17/25 08:30	11/24/25 02:21	1
Nickel	0.00290	J	0.00500	0.00230	mg/L		11/17/25 08:30	11/24/25 02:21	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/17/25 08:30	11/24/25 02:21	1
Silver	<0.00100	*+	0.00100	0.000500	mg/L		11/17/25 08:30	11/24/25 02:21	1
Thallium	<0.00100	^1+	0.00100	0.000570	mg/L		11/17/25 08:30	11/24/25 02:21	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		11/17/25 08:30	11/24/25 02:21	1
Zinc	<0.0200		0.0200	0.0130	mg/L		11/17/25 08:30	11/24/25 15:47	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			11/13/25 07:18	1

Client Sample Results

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

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

Client Sample ID: MW-19

Lab Sample ID: 310-320348-4

Date Collected: 11/11/25 11:03

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 09:29	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/15/25 09:29	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/15/25 09:29	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/15/25 09:29	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/15/25 09:29	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/15/25 09:29	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/15/25 09:29	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			11/15/25 09:29	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			11/15/25 09:29	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/15/25 09:29	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/15/25 09:29	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/15/25 09:29	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/15/25 09:29	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/15/25 09:29	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/15/25 09:29	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/15/25 09:29	1
Acetone	<10.0		10.0	3.80	ug/L			11/15/25 09:29	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			11/15/25 09:29	1
Benzene	<0.500		0.500	0.220	ug/L			11/15/25 09:29	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/15/25 09:29	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/15/25 09:29	1
Bromoform	<5.00		5.00	2.60	ug/L			11/15/25 09:29	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/15/25 09:29	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/15/25 09:29	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/15/25 09:29	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/15/25 09:29	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/15/25 09:29	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/15/25 09:29	1
Chloroform	<3.00		3.00	1.30	ug/L			11/15/25 09:29	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/15/25 09:29	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/15/25 09:29	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/15/25 09:29	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/15/25 09:29	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/15/25 09:29	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/15/25 09:29	1
Methylene chloride	<5.00		5.00	1.70	ug/L			11/15/25 09:29	1
Styrene	<1.00		1.00	0.370	ug/L			11/15/25 09:29	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/15/25 09:29	1
Toluene	<1.00		1.00	0.430	ug/L			11/15/25 09:29	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/15/25 09:29	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/15/25 09:29	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/15/25 09:29	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/15/25 09:29	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/15/25 09:29	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/15/25 09:29	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/15/25 09:29	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/15/25 09:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	121		76 - 130		11/15/25 09:29	1

Eurofins Cedar Falls

Client Sample Results

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

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

Client Sample ID: MW-19

Lab Sample ID: 310-320348-4

Date Collected: 11/11/25 11:03

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 09:29	1
4-Bromofluorobenzene (Surr)	100		80 - 120		11/15/25 09:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00103	J	0.00200	0.00100	mg/L		11/17/25 08:30	11/24/25 02:15	1
Arsenic	0.000904	J	0.00200	0.000530	mg/L		11/17/25 08:30	11/24/25 17:40	1
Barium	0.127		0.00200	0.000660	mg/L		11/17/25 08:30	11/24/25 02:15	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/17/25 08:30	11/24/25 02:15	1
Cadmium	0.000226		0.000200	0.000100	mg/L		11/17/25 08:30	11/24/25 02:15	1
Chromium	<0.00500		0.00500	0.00180	mg/L		11/17/25 08:30	11/24/25 02:15	1
Cobalt	0.00339		0.000500	0.000170	mg/L		11/17/25 08:30	11/24/25 17:40	1
Copper	0.00391	J	0.00500	0.00320	mg/L		11/17/25 08:30	11/24/25 02:15	1
Lead	0.000658		0.000500	0.000330	mg/L		11/17/25 08:30	11/24/25 02:15	1
Nickel	0.00951		0.00500	0.00230	mg/L		11/17/25 08:30	11/24/25 02:15	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/17/25 08:30	11/24/25 02:15	1
Silver	<0.00100	*+ F1	0.00100	0.000500	mg/L		11/17/25 08:30	11/24/25 02:15	1
Thallium	<0.00100	^1+	0.00100	0.000570	mg/L		11/17/25 08:30	11/24/25 02:15	1
Vanadium	0.00253	J	0.00500	0.00170	mg/L		11/17/25 08:30	11/24/25 02:15	1
Zinc	<0.0200		0.0200	0.0130	mg/L		11/17/25 08:30	11/24/25 02:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	62.5		2.50	1.75	mg/L			11/13/25 07:18	1

Client Sample Results

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

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

Client Sample ID: MW-20

Lab Sample ID: 310-320348-5

Date Collected: 11/10/25 15:10

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 09:51	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/15/25 09:51	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/15/25 09:51	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/15/25 09:51	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/15/25 09:51	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/15/25 09:51	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/15/25 09:51	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			11/15/25 09:51	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			11/15/25 09:51	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/15/25 09:51	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/15/25 09:51	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/15/25 09:51	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/15/25 09:51	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/15/25 09:51	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/15/25 09:51	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/15/25 09:51	1
Acetone	<10.0		10.0	3.80	ug/L			11/15/25 09:51	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			11/15/25 09:51	1
Benzene	<0.500		0.500	0.220	ug/L			11/15/25 09:51	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/15/25 09:51	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/15/25 09:51	1
Bromoform	<5.00		5.00	2.60	ug/L			11/15/25 09:51	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/15/25 09:51	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/15/25 09:51	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/15/25 09:51	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/15/25 09:51	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/15/25 09:51	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/15/25 09:51	1
Chloroform	<3.00		3.00	1.30	ug/L			11/15/25 09:51	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/15/25 09:51	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/15/25 09:51	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/15/25 09:51	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/15/25 09:51	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/15/25 09:51	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/15/25 09:51	1
Methylene chloride	<5.00		5.00	1.70	ug/L			11/15/25 09:51	1
Styrene	<1.00		1.00	0.370	ug/L			11/15/25 09:51	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/15/25 09:51	1
Toluene	<1.00		1.00	0.430	ug/L			11/15/25 09:51	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/15/25 09:51	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/15/25 09:51	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/15/25 09:51	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/15/25 09:51	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/15/25 09:51	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/15/25 09:51	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/15/25 09:51	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/15/25 09:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	121		76 - 130		11/15/25 09:51	1

Eurofins Cedar Falls

Client Sample Results

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

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

Client Sample ID: MW-20

Lab Sample ID: 310-320348-5

Date Collected: 11/10/25 15:10

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)	97		80 - 120		11/15/25 09:51	1
4-Bromofluorobenzene (Surr)	98		80 - 120		11/15/25 09:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00123	J	0.00200	0.00100	mg/L		11/17/25 08:30	11/24/25 02:29	1
Arsenic	0.000609	J	0.00200	0.000530	mg/L		11/17/25 08:30	11/24/25 17:47	1
Barium	0.0863		0.00200	0.000660	mg/L		11/17/25 08:30	11/24/25 02:29	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/17/25 08:30	11/24/25 02:29	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/17/25 08:30	11/24/25 02:29	1
Chromium	<0.00500		0.00500	0.00180	mg/L		11/17/25 08:30	11/24/25 02:29	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		11/17/25 08:30	11/24/25 17:47	1
Copper	<0.00500		0.00500	0.00320	mg/L		11/17/25 08:30	11/24/25 02:29	1
Lead	<0.000500		0.000500	0.000330	mg/L		11/17/25 08:30	11/24/25 02:29	1
Nickel	<0.00500		0.00500	0.00230	mg/L		11/17/25 08:30	11/24/25 02:29	1
Selenium	0.00438	J	0.00500	0.00140	mg/L		11/17/25 08:30	11/24/25 02:29	1
Silver	<0.00100	*+	0.00100	0.000500	mg/L		11/17/25 08:30	11/24/25 02:29	1
Thallium	<0.00100	^1+	0.00100	0.000570	mg/L		11/17/25 08:30	11/24/25 02:29	1
Vanadium	0.00214	J	0.00500	0.00170	mg/L		11/17/25 08:30	11/24/25 02:29	1
Zinc	<0.0200		0.0200	0.0130	mg/L		11/17/25 08:30	11/24/25 02:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	2.50		1.88	1.31	mg/L			11/13/25 07:18	1

Client Sample Results

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

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

Client Sample ID: MW-21

Lab Sample ID: 310-320348-6

Date Collected: 11/11/25 11:35

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 10:13	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/15/25 10:13	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/15/25 10:13	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/15/25 10:13	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/15/25 10:13	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/15/25 10:13	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/15/25 10:13	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			11/15/25 10:13	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			11/15/25 10:13	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/15/25 10:13	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/15/25 10:13	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/15/25 10:13	1
1,4-Dichlorobenzene	0.718	J	1.00	0.490	ug/L			11/15/25 10:13	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/15/25 10:13	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/15/25 10:13	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/15/25 10:13	1
Acetone	<10.0		10.0	3.80	ug/L			11/15/25 10:13	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			11/15/25 10:13	1
Benzene	0.342	J	0.500	0.220	ug/L			11/15/25 10:13	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/15/25 10:13	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/15/25 10:13	1
Bromoform	<5.00		5.00	2.60	ug/L			11/15/25 10:13	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/15/25 10:13	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/15/25 10:13	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/15/25 10:13	1
Chlorobenzene	0.423	J	1.00	0.350	ug/L			11/15/25 10:13	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/15/25 10:13	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/15/25 10:13	1
Chloroform	<3.00		3.00	1.30	ug/L			11/15/25 10:13	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/15/25 10:13	1
cis-1,2-Dichloroethene	0.759	J	1.00	0.550	ug/L			11/15/25 10:13	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/15/25 10:13	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/15/25 10:13	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/15/25 10:13	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/15/25 10:13	1
Methylene chloride	<5.00		5.00	1.70	ug/L			11/15/25 10:13	1
Styrene	<1.00		1.00	0.370	ug/L			11/15/25 10:13	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/15/25 10:13	1
Toluene	<1.00		1.00	0.430	ug/L			11/15/25 10:13	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/15/25 10:13	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/15/25 10:13	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/15/25 10:13	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/15/25 10:13	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/15/25 10:13	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/15/25 10:13	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/15/25 10:13	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/15/25 10:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	119		76 - 130		11/15/25 10:13	1

Eurofins Cedar Falls

Client Sample Results

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

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

Client Sample ID: MW-21

Lab Sample ID: 310-320348-6

Date Collected: 11/11/25 11:35

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)	96		80 - 120		11/15/25 10:13	1
4-Bromofluorobenzene (Surr)	101		80 - 120		11/15/25 10:13	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	<0.0936		0.0936	0.0187	ug/L		11/17/25 12:41	11/21/25 17:29	1
Methoxychlor	<0.0936		0.0936	0.0299	ug/L		11/17/25 12:41	11/21/25 17:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	85		10 - 150				11/17/25 12:41	11/21/25 17:29	1
Tetrachloro-m-xylene (Surr)	86		17 - 150				11/17/25 12:41	11/21/25 17:29	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 02:32	1
Arsenic	0.0101		0.00200	0.000530	mg/L		11/17/25 08:30	11/24/25 17:50	1
Barium	0.592		0.00200	0.000660	mg/L		11/17/25 08:30	11/24/25 02:32	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/17/25 08:30	11/24/25 02:32	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/17/25 08:30	11/24/25 02:32	1
Chromium	<0.00500		0.00500	0.00180	mg/L		11/17/25 08:30	11/24/25 02:32	1
Cobalt	0.0162		0.000500	0.000170	mg/L		11/17/25 08:30	11/24/25 17:50	1
Copper	<0.00500		0.00500	0.00320	mg/L		11/17/25 08:30	11/24/25 02:32	1
Lead	<0.000500		0.000500	0.000330	mg/L		11/17/25 08:30	11/24/25 02:32	1
Nickel	0.0439		0.00500	0.00230	mg/L		11/17/25 08:30	11/24/25 02:32	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/17/25 08:30	11/24/25 02:32	1
Silver	<0.00100	*+	0.00100	0.000500	mg/L		11/17/25 08:30	11/24/25 02:32	1
Thallium	<0.00100	^1+	0.00100	0.000570	mg/L		11/17/25 08:30	11/24/25 02:32	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		11/17/25 08:30	11/24/25 02:32	1
Zinc	<0.0200		0.0200	0.0130	mg/L		11/17/25 08:30	11/24/25 02:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	8.83		2.50	1.75	mg/L			11/13/25 07:18	1

Client Sample Results

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

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

Client Sample ID: MW-32R

Lab Sample ID: 310-320348-7

Date Collected: 11/10/25 13:18

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
Vinyl chloride	1.24		1.00	0.430	ug/L	-		11/19/25 06:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	106		76 - 130					11/19/25 06:08	1
Toluene-d8 (Surr)	95		80 - 120					11/19/25 06:08	1
4-Bromofluorobenzene (Surr)	109		80 - 120					11/19/25 06:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	0.0132		0.000500	0.000170	mg/L	-	11/17/25 08:30	11/24/25 17:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	5.13		1.88	1.31	mg/L	-		11/13/25 07:18	1

Client Sample Results

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

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

Client Sample ID: MW-DN

Lab Sample ID: 310-320348-8

Date Collected: 11/10/25 15:10

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 10:35	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/15/25 10:35	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/15/25 10:35	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/15/25 10:35	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/15/25 10:35	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/15/25 10:35	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/15/25 10:35	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			11/15/25 10:35	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			11/15/25 10:35	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/15/25 10:35	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/15/25 10:35	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/15/25 10:35	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/15/25 10:35	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/15/25 10:35	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/15/25 10:35	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/15/25 10:35	1
Acetone	<10.0		10.0	3.80	ug/L			11/15/25 10:35	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			11/15/25 10:35	1
Benzene	<0.500		0.500	0.220	ug/L			11/15/25 10:35	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/15/25 10:35	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/15/25 10:35	1
Bromoform	<5.00		5.00	2.60	ug/L			11/15/25 10:35	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/15/25 10:35	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/15/25 10:35	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/15/25 10:35	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/15/25 10:35	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/15/25 10:35	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/15/25 10:35	1
Chloroform	<3.00		3.00	1.30	ug/L			11/15/25 10:35	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/15/25 10:35	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/15/25 10:35	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/15/25 10:35	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/15/25 10:35	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/15/25 10:35	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/15/25 10:35	1
Methylene chloride	<5.00		5.00	1.70	ug/L			11/15/25 10:35	1
Styrene	<1.00		1.00	0.370	ug/L			11/15/25 10:35	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/15/25 10:35	1
Toluene	<1.00		1.00	0.430	ug/L			11/15/25 10:35	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/15/25 10:35	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/15/25 10:35	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/15/25 10:35	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/15/25 10:35	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/15/25 10:35	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/15/25 10:35	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/15/25 10:35	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/15/25 10:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	120		76 - 130		11/15/25 10:35	1

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Client Sample Results

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

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

Client Sample ID: MW-DN

Lab Sample ID: 310-320348-8

Date Collected: 11/10/25 15:10

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)	95		80 - 120		11/15/25 10:35	1
4-Bromofluorobenzene (Surr)	105		80 - 120		11/15/25 10:35	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 02:37	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		11/17/25 08:30	11/24/25 17:55	1
Barium	0.0775		0.00200	0.000660	mg/L		11/17/25 08:30	11/24/25 02:37	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/17/25 08:30	11/24/25 02:37	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/17/25 08:30	11/24/25 02:37	1
Chromium	<0.00500		0.00500	0.00180	mg/L		11/17/25 08:30	11/24/25 02:37	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		11/17/25 08:30	11/24/25 17:55	1
Copper	<0.00500		0.00500	0.00320	mg/L		11/17/25 08:30	11/24/25 02:37	1
Lead	<0.000500		0.000500	0.000330	mg/L		11/17/25 08:30	11/24/25 02:37	1
Nickel	<0.00500		0.00500	0.00230	mg/L		11/17/25 08:30	11/24/25 02:37	1
Selenium	0.00399	J	0.00500	0.00140	mg/L		11/17/25 08:30	11/24/25 02:37	1
Silver	<0.00100	*+	0.00100	0.000500	mg/L		11/17/25 08:30	11/24/25 02:37	1
Thallium	<0.00100	^1+	0.00100	0.000570	mg/L		11/17/25 08:30	11/24/25 02:37	1
Vanadium	0.00203	J	0.00500	0.00170	mg/L		11/17/25 08:30	11/24/25 02:37	1
Zinc	<0.0200		0.0200	0.0130	mg/L		11/17/25 08:30	11/24/25 02:37	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 North - 2nd 2025 GW Sampling Event

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

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

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Client Sample Results

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

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

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 North - 2nd 2025 GW Sampling Event

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

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 North - 2nd 2025 GW Sampling Event

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

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 North - 2nd 2025 GW Sampling Event

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

Client Sample ID: Trip Blank 1

Lab Sample ID: 310-320348-11

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 04:21	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/15/25 04:21	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/15/25 04:21	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/15/25 04:21	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/15/25 04:21	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/15/25 04:21	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/15/25 04:21	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			11/15/25 04:21	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			11/15/25 04:21	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/15/25 04:21	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/15/25 04:21	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/15/25 04:21	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/15/25 04:21	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/15/25 04:21	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/15/25 04:21	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/15/25 04:21	1
Acetone	<10.0		10.0	3.80	ug/L			11/15/25 04:21	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			11/15/25 04:21	1
Benzene	<0.500		0.500	0.220	ug/L			11/15/25 04:21	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/15/25 04:21	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/15/25 04:21	1
Bromoform	<5.00		5.00	2.60	ug/L			11/15/25 04:21	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/15/25 04:21	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/15/25 04:21	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/15/25 04:21	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/15/25 04:21	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/15/25 04:21	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/15/25 04:21	1
Chloroform	<3.00		3.00	1.30	ug/L			11/15/25 04:21	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/15/25 04:21	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/15/25 04:21	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/15/25 04:21	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/15/25 04:21	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/15/25 04:21	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/15/25 04:21	1
Methylene chloride	<5.00		5.00	1.70	ug/L			11/15/25 04:21	1
Styrene	<1.00		1.00	0.370	ug/L			11/15/25 04:21	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/15/25 04:21	1
Toluene	<1.00		1.00	0.430	ug/L			11/15/25 04:21	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/15/25 04:21	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/15/25 04:21	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/15/25 04:21	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/15/25 04:21	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/15/25 04:21	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/15/25 04:21	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/15/25 04:21	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/15/25 04:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	113		76 - 130		11/15/25 04:21	1

Eurofins Cedar Falls

Client Sample Results

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

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

Client Sample ID: Trip Blank 1

Date Collected: 11/11/25 00:00

Date Received: 11/12/25 15:20

Lab Sample ID: 310-320348-11

Matrix: Water

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 04:21	1
4-Bromofluorobenzene (Surr)	100		80 - 120		11/15/25 04:21	1

Client Sample Results

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

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

Client Sample ID: Trip Blank 2

Lab Sample ID: 310-320348-12

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 04:43	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/15/25 04:43	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/15/25 04:43	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/15/25 04:43	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/15/25 04:43	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/15/25 04:43	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/15/25 04:43	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			11/15/25 04:43	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			11/15/25 04:43	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/15/25 04:43	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/15/25 04:43	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/15/25 04:43	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/15/25 04:43	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/15/25 04:43	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/15/25 04:43	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/15/25 04:43	1
Acetone	<10.0		10.0	3.80	ug/L			11/15/25 04:43	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			11/15/25 04:43	1
Benzene	<0.500		0.500	0.220	ug/L			11/15/25 04:43	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/15/25 04:43	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/15/25 04:43	1
Bromoform	<5.00		5.00	2.60	ug/L			11/15/25 04:43	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/15/25 04:43	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/15/25 04:43	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/15/25 04:43	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/15/25 04:43	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/15/25 04:43	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/15/25 04:43	1
Chloroform	<3.00		3.00	1.30	ug/L			11/15/25 04:43	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/15/25 04:43	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/15/25 04:43	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/15/25 04:43	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/15/25 04:43	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/15/25 04:43	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/15/25 04:43	1
Methylene chloride	<5.00		5.00	1.70	ug/L			11/15/25 04:43	1
Styrene	<1.00		1.00	0.370	ug/L			11/15/25 04:43	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/15/25 04:43	1
Toluene	<1.00		1.00	0.430	ug/L			11/15/25 04:43	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/15/25 04:43	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/15/25 04:43	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/15/25 04:43	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/15/25 04:43	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/15/25 04:43	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/15/25 04:43	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/15/25 04:43	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/15/25 04:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	113		76 - 130		11/15/25 04:43	1

Eurofins Cedar Falls

Client Sample Results

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

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

Client Sample ID: Trip Blank 2

Lab Sample ID: 310-320348-12

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 (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		80 - 120		11/15/25 04:43	1
4-Bromofluorobenzene (Surr)	101		80 - 120		11/15/25 04:43	1

Client Sample Results

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

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

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

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Client Sample Results

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

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

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 (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 North - 2nd 2025 GW Sampling Event

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

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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.
F1	MS and/or MSD recovery exceeds control limits.
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
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 North - 2nd 2025 GW Sampling Event

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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		DBFM (76-130)	TOL (80-120)	BFB (80-120)
310-320348-1	MW-8	121	94	102
310-320348-1 MS	MW-8	103	97	92
310-320348-1 MSD	MW-8	101	100	98
310-320348-2	MW-1	119	97	100
310-320348-3	MW-17	119	94	99
310-320348-4	MW-19	121	94	100
310-320348-5	MW-20	121	97	98
310-320348-6	MW-21	119	96	101
310-320348-7	MW-32R	106	95	109
310-320348-8	MW-DN	120	95	105
310-320348-9	MW-30L	124	94	100
310-320348-10	MW-31	123	93	99
310-320348-11	Trip Blank 1	113	94	100
310-320348-12	Trip Blank 2	113	97	101
310-320348-13	Trip Blank 3	109	95	104
LCS 310-473549/8	Lab Control Sample	97	99	100
LCS 310-473549/9	Lab Control Sample	110	97	102
LCS 310-473983/9	Lab Control Sample	105	97	103
MB 310-473549/7	Method Blank	111	94	98
MB 310-473983/7	Method Blank	99	96	108

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCB1 (10-150)	TCX1 (17-150)
310-320348-6	MW-21	85	86

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene (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

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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
1,1,2,2-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
Tetrachloroethane	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-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

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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

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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 Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/18/25 22:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
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

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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

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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 Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
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 Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
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		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		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 Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
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	

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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

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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 Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
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 Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
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 Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
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 Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
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 Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	58.0		55.00		mg/L		5	35

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QC Association Summary

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

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

GC/MS VOA

Analysis Batch: 473549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-320348-1	MW-8	Total/NA	Water	8260D	
310-320348-2	MW-1	Total/NA	Water	8260D	
310-320348-3	MW-17	Total/NA	Water	8260D	
310-320348-4	MW-19	Total/NA	Water	8260D	
310-320348-5	MW-20	Total/NA	Water	8260D	
310-320348-6	MW-21	Total/NA	Water	8260D	
310-320348-8	MW-DN	Total/NA	Water	8260D	
310-320348-9	MW-30L	Total/NA	Water	8260D	
310-320348-10	MW-31	Total/NA	Water	8260D	
310-320348-11	Trip Blank 1	Total/NA	Water	8260D	
310-320348-12	Trip Blank 2	Total/NA	Water	8260D	
310-320348-13	Trip Blank 3	Total/NA	Water	8260D	
MB 310-473549/7	Method Blank	Total/NA	Water	8260D	
LCS 310-473549/8	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-473549/9	Lab Control Sample	Total/NA	Water	8260D	
310-320348-1 MS	MW-8	Total/NA	Water	8260D	
310-320348-1 MSD	MW-8	Total/NA	Water	8260D	

Analysis Batch: 473983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-320348-7	MW-32R	Total/NA	Water	8260D	
MB 310-473983/7	Method Blank	Total/NA	Water	8260D	
LCS 310-473983/9	Lab Control Sample	Total/NA	Water	8260D	

GC Semi VOA

Prep Batch: 473789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-320348-6	MW-21	Total/NA	Water	3511	

Analysis Batch: 474376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-320348-6	MW-21	Total/NA	Water	8081B	473789

Metals

Prep Batch: 473632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-320348-1	MW-8	Total/NA	Water	3005A	
310-320348-2	MW-1	Total/NA	Water	3005A	
310-320348-3	MW-17	Total/NA	Water	3005A	
MB 310-473632/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-473632/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 473633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-320348-4	MW-19	Total/NA	Water	3005A	
310-320348-5	MW-20	Total/NA	Water	3005A	
310-320348-6	MW-21	Total/NA	Water	3005A	
310-320348-7	MW-32R	Total/NA	Water	3005A	
310-320348-8	MW-DN	Total/NA	Water	3005A	
310-320348-9	MW-30L	Total/NA	Water	3005A	

Eurofins Cedar Falls

QC Association Summary

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

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

Metals (Continued)

Prep Batch: 473633 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-320348-10	MW-31	Total/NA	Water	3005A	
MB 310-473633/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-473633/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-320348-4 MS	MW-19	Total/NA	Water	3005A	
310-320348-4 MSD	MW-19	Total/NA	Water	3005A	

Analysis Batch: 474554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-320348-4	MW-19	Total/NA	Water	6020B	473633
310-320348-5	MW-20	Total/NA	Water	6020B	473633
310-320348-6	MW-21	Total/NA	Water	6020B	473633
310-320348-8	MW-DN	Total/NA	Water	6020B	473633
310-320348-9	MW-30L	Total/NA	Water	6020B	473633
310-320348-10	MW-31	Total/NA	Water	6020B	473633
MB 310-473633/1-A	Method Blank	Total/NA	Water	6020B	473633
LCS 310-473633/2-A	Lab Control Sample	Total/NA	Water	6020B	473633
310-320348-4 MS	MW-19	Total/NA	Water	6020B	473633
310-320348-4 MSD	MW-19	Total/NA	Water	6020B	473633

Analysis Batch: 474577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-320348-1	MW-8	Total/NA	Water	6020B	473632
310-320348-2	MW-1	Total/NA	Water	6020B	473632
310-320348-3	MW-17	Total/NA	Water	6020B	473632
MB 310-473632/1-A	Method Blank	Total/NA	Water	6020B	473632
LCS 310-473632/2-A	Lab Control Sample	Total/NA	Water	6020B	473632

Analysis Batch: 474730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-320348-1	MW-8	Total/NA	Water	6020B	473632
310-320348-2	MW-1	Total/NA	Water	6020B	473632
310-320348-3	MW-17	Total/NA	Water	6020B	473632
310-320348-4	MW-19	Total/NA	Water	6020B	473633
310-320348-5	MW-20	Total/NA	Water	6020B	473633
310-320348-6	MW-21	Total/NA	Water	6020B	473633
310-320348-7	MW-32R	Total/NA	Water	6020B	473633
310-320348-8	MW-DN	Total/NA	Water	6020B	473633
310-320348-9	MW-30L	Total/NA	Water	6020B	473633
310-320348-10	MW-31	Total/NA	Water	6020B	473633
MB 310-473632/1-A	Method Blank	Total/NA	Water	6020B	473632
MB 310-473633/1-A	Method Blank	Total/NA	Water	6020B	473633
LCS 310-473632/2-A	Lab Control Sample	Total/NA	Water	6020B	473632
LCS 310-473633/2-A	Lab Control Sample	Total/NA	Water	6020B	473633
310-320348-4 MS	MW-19	Total/NA	Water	6020B	473633
310-320348-4 MSD	MW-19	Total/NA	Water	6020B	473633

General Chemistry

Analysis Batch: 473360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-320348-1	MW-8	Total/NA	Water	I-3765-85	

Eurofins Cedar Falls

QC Association Summary

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

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

General Chemistry (Continued)

Analysis Batch: 473360 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-320348-2	MW-1	Total/NA	Water	I-3765-85	
310-320348-3	MW-17	Total/NA	Water	I-3765-85	
310-320348-4	MW-19	Total/NA	Water	I-3765-85	
310-320348-5	MW-20	Total/NA	Water	I-3765-85	
310-320348-6	MW-21	Total/NA	Water	I-3765-85	
310-320348-7	MW-32R	Total/NA	Water	I-3765-85	
310-320348-8	MW-DN	Total/NA	Water	I-3765-85	
310-320348-9	MW-30L	Total/NA	Water	I-3765-85	
310-320348-10	MW-31	Total/NA	Water	I-3765-85	
MB 310-473360/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-473360/2	Lab Control Sample	Total/NA	Water	I-3765-85	
310-320348-2 DU	MW-1	Total/NA	Water	I-3765-85	

Lab Chronicle

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

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

Client Sample ID: MW-8

Lab Sample ID: 310-320348-1

Date Collected: 11/10/25 12:44

Matrix: Water

Date Received: 11/12/25 15:20

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 08:23
Total/NA	Prep	3005A			473632	RLT9	EET CF	11/17/25 08:30
Total/NA	Analysis	6020B		1	474577	ZRI4	EET CF	11/24/25 02:15
Total/NA	Prep	3005A			473632	RLT9	EET CF	11/17/25 08:30
Total/NA	Analysis	6020B		1	474730	NFT2	EET CF	11/24/25 15:42
Total/NA	Analysis	I-3765-85		1	473360	DGU1	EET CF	11/13/25 07:18

Client Sample ID: MW-1

Lab Sample ID: 310-320348-2

Date Collected: 11/10/25 13:53

Matrix: Water

Date Received: 11/12/25 15:20

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 08:45
Total/NA	Prep	3005A			473632	RLT9	EET CF	11/17/25 08:30
Total/NA	Analysis	6020B		1	474577	ZRI4	EET CF	11/24/25 02:18
Total/NA	Prep	3005A			473632	RLT9	EET CF	11/17/25 08:30
Total/NA	Analysis	6020B		1	474730	NFT2	EET CF	11/24/25 15:44
Total/NA	Analysis	I-3765-85		1	473360	DGU1	EET CF	11/13/25 07:18

Client Sample ID: MW-17

Lab Sample ID: 310-320348-3

Date Collected: 11/10/25 15:45

Matrix: Water

Date Received: 11/12/25 15:20

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 09:07
Total/NA	Prep	3005A			473632	RLT9	EET CF	11/17/25 08:30
Total/NA	Analysis	6020B		1	474577	ZRI4	EET CF	11/24/25 02:21
Total/NA	Prep	3005A			473632	RLT9	EET CF	11/17/25 08:30
Total/NA	Analysis	6020B		1	474730	NFT2	EET CF	11/24/25 15:47
Total/NA	Analysis	I-3765-85		1	473360	DGU1	EET CF	11/13/25 07:18

Client Sample ID: MW-19

Lab Sample ID: 310-320348-4

Date Collected: 11/11/25 11:03

Matrix: Water

Date Received: 11/12/25 15:20

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 09:29
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 17:40
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 02:15
Total/NA	Analysis	I-3765-85		1	473360	DGU1	EET CF	11/13/25 07:18

Eurofins Cedar Falls

Lab Chronicle

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

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

Client Sample ID: MW-20

Date Collected: 11/10/25 15:10

Date Received: 11/12/25 15:20

Lab Sample ID: 310-320348-5

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 09:51
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 17:47
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 02:29
Total/NA	Analysis	I-3765-85		1	473360	DGU1	EET CF	11/13/25 07:18

Client Sample ID: MW-21

Date Collected: 11/11/25 11:35

Date Received: 11/12/25 15:20

Lab Sample ID: 310-320348-6

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 10:13
Total/NA	Prep	3511			473789	BW2O	EET CF	11/17/25 12:41
Total/NA	Analysis	8081B		1	474376	BW2O	EET CF	11/21/25 17:29
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 17:50
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 02:32
Total/NA	Analysis	I-3765-85		1	473360	DGU1	EET CF	11/13/25 07:18

Client Sample ID: MW-32R

Date Collected: 11/10/25 13:18

Date Received: 11/12/25 15:20

Lab Sample ID: 310-320348-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	473983	WSE8	EET CF	11/19/25 06:08
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 17:53
Total/NA	Analysis	I-3765-85		1	473360	DGU1	EET CF	11/13/25 07:18

Client Sample ID: MW-DN

Date Collected: 11/10/25 15:10

Date Received: 11/12/25 15:20

Lab Sample ID: 310-320348-8

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 10:35
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 17:55
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 02:37
Total/NA	Analysis	I-3765-85		1	473360	DGU1	EET CF	11/13/25 07:18

Eurofins Cedar Falls

Lab Chronicle

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

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

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

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

Lab Sample ID: 310-320348-10

Date Collected: 11/11/25 12:11

Matrix: Water

Date Received: 11/12/25 15:20

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 1

Lab Sample ID: 310-320348-11

Date Collected: 11/11/25 00:00

Matrix: Water

Date Received: 11/12/25 15:20

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 04:21

Client Sample ID: Trip Blank 2

Lab Sample ID: 310-320348-12

Date Collected: 11/11/25 00:00

Matrix: Water

Date Received: 11/12/25 15:20

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 04:43

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

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

Eurofins Cedar Falls

Accreditation/Certification Summary

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

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

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 North - 2nd 2025 GW Sampling Event

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

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
8081B	Organochlorine Pesticides (GC)	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
3511	Microextraction of Organic Compounds	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



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			

Cedar Falls, IA 50613-6907
phone 319 277.2401 fax 319.277 2425

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

[illegible]

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 </= 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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Appendix B2

Data Validation

Completed by: Semir Omerovic
Date of Sampling: 5/8/2025
Lab Report Date: 5/20/2025
Site Name: WRD County Landfill - North MSWLF Unit
Project Number: 27224309.26
Project Type: 1st 2025 Semi-Annual Sampling Event
Lab Report Number: 310-306160-1

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			No detections.
X			No detections.

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). Method 8260D: The continuing calibration verification (CCV) associated with batch 310-454525 recovered outside of the control limits for Bromomethane (-24.8%D). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data has been reported. The associated sample is impacted: (CCV 310-454525/4). Method 8260D: The continuing calibration verification (CCV) associated with batch 310-454525 recovered outside of the control limits for Vinyl chloride (-20.9%D). The LCS associated with this CCV passed CCV criteria for the affected analyte; therefore, the data has been reported. The associated sample is:(CCV 310-454525/4). Method 8081B: The continuing calibration verification (CCV) associated with batch 310-454627 recovered above the upper control limit for 4,4'-DDE. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data has been reported.
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LCS/LCSD

	X	Method 6020B: The laboratory control sample (LCS) for preparation batch 310-454569 and analytical batch 310-454894 recovered outside control limits for the following analyte: silver. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data has been reported.
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MS/MSD

Surrogates (organics only)

X			
X			

Precision

QA/QC Sample RPDs

Field Duplicates

X			
X			A field duplicate sample was collected at MW-20. RPD for analyzed parameters was <50%.

Completed by: Semir Omerovic
Date of Sampling: 11/10/2025
Lab Report Date: 11/25/2025
Site Name: WRD County Landfill - North MSWLF Unit
Project Number: 27224309.26
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 analyte was: Thallium. Sample result was non-detect, and was 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 analyte: Silver. This analyte was biased high in the LCS and was not detected in the associated sample; therefore, the data was 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 analyte: Silver. This analyte was biased high in the LCS and was not detected in the associated sample; therefore, the data was reported.
X			
X			
X			
X			A field duplicate sample was collected at MW-20. RPD for analyzed parameters was <50%, with the exception of arsenic.



Appendix C

Summary of Groundwater Chemistry

SCS ENGINEERS

Summary of Groundwater Chemistry Wayne Ringgold Decatur Sanitary Landfill 27 SDP 01 75P

	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Total Metals Constituents							
Antimony, mg/L (CAS NO - 7440-36-0)	5/8/2025	0.00208	< 0.002	< 0.002	< 0.002	< 0.002	0.00108*
	5/8/2025	N/A	N/A	N/A	N/A	< 0.002	N/A
	11/10/2025	< 0.002	< 0.002	< 0.002	0.00103*	< 0.002	< 0.002
	11/10/2025	N/A	N/A	N/A	N/A	0.00123*	N/A
Arsenic, mg/L (CAS NO - 7440-38-2)	5/8/2025	0.00075*	0.00632	< 0.002	0.000906*	< 0.002	0.00903
	5/8/2025	N/A	N/A	N/A	N/A	< 0.002	N/A
	11/10/2025	0.00106*	0.00442	0.000551*	0.000904*	< 0.002	0.0101
	11/10/2025	N/A	N/A	N/A	N/A	0.000609*	N/A
Barium, mg/L (CAS NO - 7440-39-3)	5/8/2025	0.0274	0.51	0.0495	0.114	0.0686	0.311
	5/8/2025	N/A	N/A	N/A	N/A	0.069	N/A
	11/10/2025	0.0285	0.49	0.0497	0.127	0.0775	0.592
	11/10/2025	N/A	N/A	N/A	N/A	0.0863	N/A
Beryllium, mg/L (CAS NO - 7440-41-7)	5/8/2025	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	5/8/2025	N/A	N/A	N/A	N/A	< 0.001	N/A
	11/10/2025	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	11/10/2025	N/A	N/A	N/A	N/A	< 0.001	N/A
Cadmium, mg/L (CAS NO - 7440-43-9)	5/8/2025	0.000238	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.000358
	5/8/2025	N/A	N/A	N/A	N/A	< 0.0002	N/A
	11/10/2025	0.000473	< 0.0002	< 0.0002	0.000226	< 0.0002	< 0.0002
	11/10/2025	N/A	N/A	N/A	N/A	< 0.0002	N/A
Chromium, mg/L (CAS NO - 7440-47-3)	5/8/2025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	5/8/2025	N/A	N/A	N/A	N/A	< 0.005	N/A
	11/10/2025	0.00225*	< 0.005	0.00214*	< 0.005	< 0.005	< 0.005
	11/10/2025	N/A	N/A	N/A	N/A	< 0.005	N/A
Cobalt, mg/L (CAS NO - 7440-48-4)	5/8/2025	0.000873	0.00108	< 0.0005	< 0.0005	< 0.0005	0.0155
	5/8/2025	N/A	N/A	N/A	N/A	< 0.0005	N/A
	11/10/2025	0.00642	0.000373*	< 0.0005	0.00339	< 0.0005	0.0162
	11/10/2025	N/A	N/A	N/A	N/A	< 0.0005	N/A
Copper, mg/L (CAS NO - 7440-50-8)	5/8/2025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	5/8/2025	N/A	N/A	N/A	N/A	< 0.005	N/A
	11/10/2025	< 0.005	< 0.005	< 0.005	0.00391*	< 0.005	< 0.005
	11/10/2025	N/A	N/A	N/A	N/A	< 0.005	N/A
Lead, mg/L (CAS NO - 7439-92-1)	5/8/2025	< 0.0005	0.0031	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	5/8/2025	N/A	N/A	N/A	N/A	< 0.0005	N/A
	11/10/2025	0.000526	< 0.0005	< 0.0005	0.000658	< 0.0005	< 0.0005
	11/10/2025	N/A	N/A	N/A	N/A	< 0.0005	N/A
Nickel, mg/L (CAS NO - 7440-02-0)	5/8/2025	0.0127	0.0042*	< 0.005	< 0.005	< 0.005	0.0369
	5/8/2025	N/A	N/A	N/A	N/A	< 0.005	N/A
	11/10/2025	0.0335	< 0.005	0.0029*	0.00951	< 0.005	0.0439
	11/10/2025	N/A	N/A	N/A	N/A	< 0.005	N/A
Selenium, mg/L (CAS NO - 7782-49-2)	5/8/2025	0.0014*	< 0.005	0.00188*	< 0.005	0.00257*	< 0.005
	5/8/2025	N/A	N/A	N/A	N/A	0.00295*	N/A
	11/10/2025	< 0.005	< 0.005	< 0.005	< 0.005	0.00438*	< 0.005
	11/10/2025	N/A	N/A	N/A	N/A	0.00399*	N/A
Silver, mg/L (CAS NO - 7440-22-4)	5/8/2025	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	5/8/2025	N/A	N/A	N/A	N/A	< 0.001	N/A
	11/10/2025	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	11/10/2025	N/A	N/A	N/A	N/A	< 0.001	N/A
Thallium, mg/L (CAS NO - 7440-28-0)	5/8/2025	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	5/8/2025	N/A	N/A	N/A	N/A	< 0.001	N/A
	11/10/2025	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	11/10/2025	N/A	N/A	N/A	N/A	< 0.001	N/A
Vanadium, mg/L (CAS NO - 7440-62-2)	5/8/2025	< 0.005	0.00374*	< 0.005	< 0.005	< 0.005	< 0.005
	5/8/2025	N/A	N/A	N/A	N/A	< 0.005	N/A
	11/10/2025	0.0018*	0.00196*	< 0.005	0.00253*	0.00214*	< 0.005
	11/10/2025	N/A	N/A	N/A	N/A	0.00203*	N/A
Zinc, mg/L (CAS NO - 7440-66-6)	5/8/2025	< 0.02	0.0225	< 0.02	< 0.02	< 0.02	< 0.02
	5/8/2025	N/A	N/A	N/A	N/A	< 0.02	N/A
	11/10/2025	0.0541	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	11/10/2025	N/A	N/A	N/A	N/A	< 0.02	N/A



Summary of Groundwater Chemistry
Wayne Ringgold Decatur Sanitary Landfill 27 SDP 01 75P

	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Total Metals Constituents							
Total Suspended Solids, mg/L (CAS NO - TSS)	5/8/2025	4.13	45	< 1.88	< 1.88	1.38*	34.5
	5/8/2025	N/A	N/A	N/A	N/A	< 1.88	N/A
	11/10/2025	20.6	58	1.75*	62.5	2.5	8.83
	11/10/2025	N/A	N/A	N/A	N/A	2.88	N/A

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.



Summary of Groundwater Chemistry
Wayne Ringgold Decatur Sanitary Landfill 27 SDP 01 75P

Appendix I VOC Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
1,1,1,2-Tetrachloroethane, ug/L (CAS NO - 630-20-6)	5/8/2025	< 1	< 1	< 1	< 1	< 1	< 1
	5/8/2025	N/A	N/A	N/A	N/A	< 1	N/A
	11/10/2025	< 1	< 1	< 1	< 1	< 1	< 1
	11/10/2025	N/A	N/A	N/A	N/A	< 1	N/A
1,1,1-Trichloroethane, ug/L (CAS NO - 71-55-6)	5/8/2025	< 1	< 1	< 1	< 1	< 1	< 1
	5/8/2025	N/A	N/A	N/A	N/A	< 1	N/A
	11/10/2025	< 1	< 1	< 1	< 1	< 1	< 1
	11/10/2025	N/A	N/A	N/A	N/A	< 1	N/A
1,1,2,2-Tetrachloroethane, ug/L (CAS NO - 79-34-5)	5/8/2025	< 1	< 1	< 1	< 1	< 1	< 1
	5/8/2025	N/A	N/A	N/A	N/A	< 1	N/A
	11/10/2025	< 1	< 1	< 1	< 1	< 1	< 1
	11/10/2025	N/A	N/A	N/A	N/A	< 1	N/A
1,1,2-Trichloroethane, ug/L (CAS NO - 79-00-5)	5/8/2025	< 1	< 1	< 1	< 1	< 1	< 1
	5/8/2025	N/A	N/A	N/A	N/A	< 1	N/A
	11/10/2025	< 1	< 1	< 1	< 1	< 1	< 1
	11/10/2025	N/A	N/A	N/A	N/A	< 1	N/A
1,1-Dichloroethane, ug/L (CAS NO - 75-34-3)	5/8/2025	< 1	0.532*	< 1	< 1	< 1	< 1
	5/8/2025	N/A	N/A	N/A	N/A	< 1	N/A
	11/10/2025	< 1	0.712*	< 1	< 1	< 1	< 1
	11/10/2025	N/A	N/A	N/A	N/A	< 1	N/A
1,1-Dichloroethene, ug/L (CAS NO - 75-35-4)	5/8/2025	< 2	< 2	< 2	< 2	< 2	< 2
	5/8/2025	N/A	N/A	N/A	N/A	< 2	N/A
	11/10/2025	< 2	< 2	< 2	< 2	< 2	< 2
	11/10/2025	N/A	N/A	N/A	N/A	< 2	N/A
1,2,3-Trichloropropane, ug/L (CAS NO - 96-18-4)	5/8/2025	< 1	< 1	< 1	< 1	< 1	< 1
	5/8/2025	N/A	N/A	N/A	N/A	< 1	N/A
	11/10/2025	< 1	< 1	< 1	< 1	< 1	< 1
	11/10/2025	N/A	N/A	N/A	N/A	< 1	N/A
1,2-Dibromo-3-Chloropropane, ug/L (CAS NO - 96-12-8)	5/8/2025	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
	5/8/2025	N/A	N/A	N/A	N/A	< 1.2	N/A
	11/10/2025	< 5	< 5	< 5	< 5	< 5	< 5
	11/10/2025	N/A	N/A	N/A	N/A	< 5	N/A
1,2-Dibromoethane [EDB], ug/L (CAS NO - 106-93-4)	5/8/2025	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
	5/8/2025	N/A	N/A	N/A	N/A	< 0.34	N/A
	11/10/2025	< 1	< 1	< 1	< 1	< 1	< 1
	11/10/2025	N/A	N/A	N/A	N/A	< 1	N/A
1,2-Dichlorobenzene, ug/L (CAS NO - 95-50-1)	5/8/2025	< 1	< 1	< 1	< 1	< 1	< 1
	5/8/2025	N/A	N/A	N/A	N/A	< 1	N/A
	11/10/2025	< 1	< 1	< 1	< 1	< 1	< 1
	11/10/2025	N/A	N/A	N/A	N/A	< 1	N/A
1,2-Dichloroethane, ug/L (CAS NO - 107-06-2)	5/8/2025	< 1	< 1	< 1	< 1	< 1	< 1
	5/8/2025	N/A	N/A	N/A	N/A	< 1	N/A
	11/10/2025	< 1	< 1	< 1	< 1	< 1	< 1
	11/10/2025	N/A	N/A	N/A	N/A	< 1	N/A
1,2-Dichloropropane, ug/L (CAS NO - 78-87-5)	5/8/2025	< 1	< 1	< 1	< 1	< 1	< 1
	5/8/2025	N/A	N/A	N/A	N/A	< 1	N/A
	11/10/2025	< 1	< 1	< 1	< 1	< 1	< 1
	11/10/2025	N/A	N/A	N/A	N/A	< 1	N/A
1,4-Dichlorobenzene, ug/L (CAS NO - 106-46-7)	5/8/2025	< 1	< 1	< 1	< 1	< 1	0.494*
	5/8/2025	N/A	N/A	N/A	N/A	< 1	N/A
	11/10/2025	< 1	< 1	< 1	< 1	< 1	0.718*
	11/10/2025	N/A	N/A	N/A	N/A	< 1	N/A
2-Butanone, ug/L (CAS NO - 78-93-3)	5/8/2025	< 10	< 10	< 10	< 10	< 10	< 10
	5/8/2025	N/A	N/A	N/A	N/A	< 10	N/A
	11/10/2025	< 10	< 10	< 10	< 10	< 10	< 10
	11/10/2025	N/A	N/A	N/A	N/A	< 10	N/A
2-Hexanone, ug/L (CAS NO - 591-78-6)	5/8/2025	< 10	< 10	< 10	< 10	< 10	< 10
	5/8/2025	N/A	N/A	N/A	N/A	< 10	N/A
	11/10/2025	< 10	< 10	< 10	< 10	< 10	< 10
	11/10/2025	N/A	N/A	N/A	N/A	< 10	N/A



Summary of Groundwater Chemistry
Wayne Ringgold Decatur Sanitary Landfill 27 SDP 01 75P

	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Appendix I VOC Constituents							
4-Methyl-2-Pentanone, ug/L (CAS NO - 108-10-1)	5/8/2025	< 10	< 10	< 10	< 10	< 10	< 10
	5/8/2025	N/A	N/A	N/A	N/A	< 10	N/A
	11/10/2025	< 10	< 10	< 10	< 10	< 10	< 10
	11/10/2025	N/A	N/A	N/A	N/A	< 10	N/A
Acetone, ug/L (CAS NO - 67-64-1)	5/8/2025	< 10	3.11*	< 10	< 10	< 10	< 10
	5/8/2025	N/A	N/A	N/A	N/A	< 10	N/A
	11/10/2025	< 10	5.43*	< 10	< 10	< 10	< 10
	11/10/2025	N/A	N/A	N/A	N/A	< 10	N/A
Acrylonitrile, ug/L (CAS NO - 107-13-1)	5/8/2025	< 5	< 5	< 5	< 5	< 5	< 5
	5/8/2025	N/A	N/A	N/A	N/A	< 5	N/A
	11/10/2025	< 5	< 5	< 5	< 5	< 5	< 5
	11/10/2025	N/A	N/A	N/A	N/A	< 5	N/A
Benzene, ug/L (CAS NO - 71-43-2)	5/8/2025	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	5/8/2025	N/A	N/A	N/A	N/A	< 0.5	N/A
	11/10/2025	< 0.5	0.589	< 0.5	< 0.5	< 0.5	0.342*
	11/10/2025	N/A	N/A	N/A	N/A	< 0.5	N/A
Bromochloromethane, ug/L (CAS NO - 74-97-5)	5/8/2025	< 5	< 5	< 5	< 5	< 5	< 5
	5/8/2025	N/A	N/A	N/A	N/A	< 5	N/A
	11/10/2025	< 5	< 5	< 5	< 5	< 5	< 5
	11/10/2025	N/A	N/A	N/A	N/A	< 5	N/A
Bromodichloromethane, ug/L (CAS NO - 75-27-4)	5/8/2025	< 1	< 1	< 1	< 1	< 1	< 1
	5/8/2025	N/A	N/A	N/A	N/A	< 1	N/A
	11/10/2025	< 1	< 1	< 1	< 1	< 1	< 1
	11/10/2025	N/A	N/A	N/A	N/A	< 1	N/A
Bromoform, ug/L (CAS NO - 75-25-2)	5/8/2025	< 5	< 5	< 5	< 5	< 5	< 5
	5/8/2025	N/A	N/A	N/A	N/A	< 5	N/A
	11/10/2025	< 5	< 5	< 5	< 5	< 5	< 5
	11/10/2025	N/A	N/A	N/A	N/A	< 5	N/A
Bromomethane, ug/L (CAS NO - 74-83-9)	5/8/2025	< 4	< 4	< 4	< 4	< 4	< 4
	5/8/2025	N/A	N/A	N/A	N/A	< 4	N/A
	11/10/2025	< 4	< 4	< 4	< 4	< 4	< 4
	11/10/2025	N/A	N/A	N/A	N/A	< 4	N/A
Carbon Disulfide, ug/L (CAS NO - 75-15-0)	5/8/2025	< 1	< 1	< 1	< 1	< 1	< 1
	5/8/2025	N/A	N/A	N/A	N/A	< 1	N/A
	11/10/2025	< 1	< 1	< 1	< 1	< 1	< 1
	11/10/2025	N/A	N/A	N/A	N/A	< 1	N/A
Carbon Tetrachloride, ug/L (CAS NO - 56-23-5)	5/8/2025	< 2	< 2	< 2	< 2	< 2	< 2
	5/8/2025	N/A	N/A	N/A	N/A	< 2	N/A
	11/10/2025	< 2	< 2	< 2	< 2	< 2	< 2
	11/10/2025	N/A	N/A	N/A	N/A	< 2	N/A
Chlorobenzene, ug/L (CAS NO - 108-90-7)	5/8/2025	< 1	< 1	< 1	< 1	< 1	< 1
	5/8/2025	N/A	N/A	N/A	N/A	< 1	N/A
	11/10/2025	< 1	< 1	< 1	< 1	< 1	0.423*
	11/10/2025	N/A	N/A	N/A	N/A	< 1	N/A
Chlorodibromomethane, ug/L (CAS NO - 124-48-1)	5/8/2025	< 5	< 5	< 5	< 5	< 5	< 5
	5/8/2025	N/A	N/A	N/A	N/A	< 5	N/A
	11/10/2025	< 5	< 5	< 5	< 5	< 5	< 5
	11/10/2025	N/A	N/A	N/A	N/A	< 5	N/A
Chloroethane, ug/L (CAS NO - 75-00-3)	5/8/2025	< 4	< 4	< 4	< 4	< 4	< 4
	5/8/2025	N/A	N/A	N/A	N/A	< 4	N/A
	11/10/2025	< 4	< 4	< 4	< 4	< 4	< 4
	11/10/2025	N/A	N/A	N/A	N/A	< 4	N/A
Chloroform, ug/L (CAS NO - 67-66-3)	5/8/2025	< 3	< 3	< 3	< 3	< 3	< 3
	5/8/2025	N/A	N/A	N/A	N/A	< 3	N/A
	11/10/2025	< 3	< 3	< 3	< 3	< 3	< 3
	11/10/2025	N/A	N/A	N/A	N/A	< 3	N/A
Chloromethane, ug/L (CAS NO - 74-87-3)	5/8/2025	< 3	< 3	< 3	< 3	< 3	< 3
	5/8/2025	N/A	N/A	N/A	N/A	< 3	N/A
	11/10/2025	< 3	< 3	< 3	< 3	< 3	< 3
	11/10/2025	N/A	N/A	N/A	N/A	< 3	N/A



Summary of Groundwater Chemistry
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Appendix I VOC Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
cis-1,2-Dichloroethene, ug/L (CAS NO - 156-59-2)	5/8/2025	< 1	< 1	< 1	< 1	< 1	< 1
	5/8/2025	N/A	N/A	N/A	N/A	< 1	N/A
	11/10/2025	< 1	< 1	< 1	< 1	< 1	0.759*
	11/10/2025	N/A	N/A	N/A	N/A	< 1	N/A
cis-1,3-Dichloropropene, ug/L (CAS NO - 10061-01-5)	5/8/2025	< 5	< 5	< 5	< 5	< 5	< 5
	5/8/2025	N/A	N/A	N/A	N/A	< 5	N/A
	11/10/2025	< 5	< 5	< 5	< 5	< 5	< 5
	11/10/2025	N/A	N/A	N/A	N/A	< 5	N/A
Ethylbenzene, ug/L (CAS NO - 100-41-4)	5/8/2025	< 1	< 1	< 1	< 1	< 1	< 1
	5/8/2025	N/A	N/A	N/A	N/A	< 1	N/A
	11/10/2025	< 1	< 1	< 1	< 1	< 1	< 1
	11/10/2025	N/A	N/A	N/A	N/A	< 1	N/A
Iodomethane, ug/L (CAS NO - 74-88-4)	5/8/2025	< 10	< 10	< 10	< 10	< 10	< 10
	5/8/2025	N/A	N/A	N/A	N/A	< 10	N/A
	11/10/2025	< 10	< 10	< 10	< 10	< 10	< 10
	11/10/2025	N/A	N/A	N/A	N/A	< 10	N/A
Methylene Bromide, ug/L (CAS NO - 74-95-3)	5/8/2025	< 1	< 1	< 1	< 1	< 1	< 1
	5/8/2025	N/A	N/A	N/A	N/A	< 1	N/A
	11/10/2025	< 1	< 1	< 1	< 1	< 1	< 1
	11/10/2025	N/A	N/A	N/A	N/A	< 1	N/A
Methylene Chloride, ug/L (CAS NO - 75-09-2)	5/8/2025	< 5	< 5	< 5	< 5	< 5	< 5
	5/8/2025	N/A	N/A	N/A	N/A	< 5	N/A
	11/10/2025	< 5	< 5	< 5	< 5	< 5	< 5
	11/10/2025	N/A	N/A	N/A	N/A	< 5	N/A
Styrene, ug/L (CAS NO - 100-42-5)	5/8/2025	< 1	< 1	< 1	< 1	< 1	< 1
	5/8/2025	N/A	N/A	N/A	N/A	< 1	N/A
	11/10/2025	< 1	< 1	< 1	< 1	< 1	< 1
	11/10/2025	N/A	N/A	N/A	N/A	< 1	N/A
Tetrachloroethene, ug/L (CAS NO - 127-18-4)	5/8/2025	< 1	< 1	< 1	< 1	< 1	< 1
	5/8/2025	N/A	N/A	N/A	N/A	< 1	N/A
	11/10/2025	< 1	< 1	< 1	< 1	< 1	< 1
	11/10/2025	N/A	N/A	N/A	N/A	< 1	N/A
Toluene, ug/L (CAS NO - 108-88-3)	5/8/2025	< 1	< 1	< 1	< 1	< 1	< 1
	5/8/2025	N/A	N/A	N/A	N/A	< 1	N/A
	11/10/2025	< 1	< 1	< 1	< 1	< 1	< 1
	11/10/2025	N/A	N/A	N/A	N/A	< 1	N/A
trans-1,2-Dichloroethene, ug/L (CAS NO - 156-60-5)	5/8/2025	< 1	< 1	< 1	< 1	< 1	< 1
	5/8/2025	N/A	N/A	N/A	N/A	< 1	N/A
	11/10/2025	< 1	< 1	< 1	< 1	< 1	< 1
	11/10/2025	N/A	N/A	N/A	N/A	< 1	N/A
trans-1,3-Dichloropropene, ug/L (CAS NO - 10061-02-6)	5/8/2025	< 5	< 5	< 5	< 5	< 5	< 5
	5/8/2025	N/A	N/A	N/A	N/A	< 5	N/A
	11/10/2025	< 5	< 5	< 5	< 5	< 5	< 5
	11/10/2025	N/A	N/A	N/A	N/A	< 5	N/A
trans-1,4-Dichloro-2-Butene, ug/L (CAS NO - 110-57-6)	5/8/2025	< 10	< 10	< 10	< 10	< 10	< 10
	5/8/2025	N/A	N/A	N/A	N/A	< 10	N/A
	11/10/2025	< 10	< 10	< 10	< 10	< 10	< 10
	11/10/2025	N/A	N/A	N/A	N/A	< 10	N/A
Trichloroethene, ug/L (CAS NO - 79-01-6)	5/8/2025	< 1	< 1	< 1	< 1	< 1	< 1
	5/8/2025	N/A	N/A	N/A	N/A	< 1	N/A
	11/10/2025	< 1	< 1	< 1	< 1	< 1	< 1
	11/10/2025	N/A	N/A	N/A	N/A	< 1	N/A
Trichlorofluoromethane, ug/L (CAS NO - 75-69-4)	5/8/2025	< 4	< 4	< 4	< 4	< 4	< 4
	5/8/2025	N/A	N/A	N/A	N/A	< 4	N/A
	11/10/2025	< 4	< 4	< 4	< 4	< 4	< 4
	11/10/2025	N/A	N/A	N/A	N/A	< 4	N/A
Vinyl Acetate, ug/L (CAS NO - 108-05-4)	5/8/2025	< 10	< 10	< 10	< 10	< 10	< 10
	5/8/2025	N/A	N/A	N/A	N/A	< 10	N/A
	11/10/2025	< 10	< 10	< 10	< 10	< 10	< 10
	11/10/2025	N/A	N/A	N/A	N/A	< 10	N/A



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Appendix I VOC Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Vinyl Chloride, ug/L (CAS NO - 75-01-4)	5/8/2025	< 1	0.277*	< 1	< 1	< 1	< 1
	5/8/2025	N/A	N/A	N/A	N/A	< 1	N/A
	11/10/2025	< 1	< 1	< 1	< 1	< 1	< 1
	11/10/2025	N/A	N/A	N/A	N/A	< 1	N/A
Xylenes, total, ug/L (CAS NO - 1330-20-7)	5/8/2025	< 3	< 3	< 3	< 3	< 3	< 3
	5/8/2025	N/A	N/A	N/A	N/A	< 3	N/A
	11/10/2025	< 3	< 3	< 3	< 3	< 3	< 3
	11/10/2025	N/A	N/A	N/A	N/A	< 3	N/A

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.



Summary of Groundwater Chemistry
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Other Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
4,4`-DDT, ug/L (CAS NO - 50-29-3)	5/8/2025	N/A	N/A	N/A	N/A	N/A	< 0.179
	11/10/2025	N/A	N/A	N/A	N/A	N/A	< 0.0936
Methoxychlor, ug/L (CAS NO - 72-43-5)	5/8/2025	N/A	N/A	N/A	N/A	N/A	< 0.0897
	11/10/2025	N/A	N/A	N/A	N/A	N/A	< 0.0936

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

Statistical Methodology and Output

STATISTICAL METHODOLOGY

Statistical Method

The approved Groundwater Assessment Plan Update (Doc #79942) proposed the use of parametric and non-parametric prediction limits for statistical evaluation in lieu of the control limits required by the 2002 version of Iowa Administrative Code 567-113. Prediction limits are the recommended approach of the "Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities - Unified Guidance," as published by the United States Environmental Protection Agency. Prediction limits were used for the statistical evaluation during this reporting period.

Diagnostic and Exploratory Evaluations and Tests of Assumptions

The statistical program includes diagnostic and exploratory evaluations and statistical tests of assumptions, as appropriate, including the following:

- Time series plots
- Shapiro-Wilk test for normality
- Ohio EPA Method for Outliers

Management of Non-Detect Data

Non-detect values in the dataset are managed using simple substitution or the Kaplan-Meier estimator. If less than 15% of the data are non-detects, simple substitution is used, where non-detect values are assigned a concentration of one-half ($\frac{1}{2}$) of the practical quantification limit (PQL). If greater than 15% but less than 50% of the data are non-detects, the Kaplan-Meier estimator is used to define the distribution for the dataset. If non-detects comprise greater than 50% of the available data, non-parametric statistical methods are used.

Management of Outliers

Background datasets were evaluated for outliers using the Ohio EPA Method as included in the statistical software program Sanitas™ and described below, which included the use of Dixon's, Rosner's, and Tukey's outlier tests, as appropriate based on the diagnostic tests, for the datasets containing less than 75% of the measured concentrations below the practical quantification limit (PQL).

Management of Data (ND data < 75%)

If less than 75% of the background dataset was below the PQL, outliers were statistically evaluated using the following guidelines.

- Parametric datasets with $n < 20$ were evaluated using Dixon's outlier test.
- Parametric datasets with $n \geq 20$ were evaluated using Rosner's outlier test.
- Non-parametric datasets were evaluated using Tukey's outlier test.

In accordance with the Ohio EPA Method, if a statistically significant outlier was not found using the above tests, but the highest value data point exceeded the second highest data point by an order of magnitude, the highest point was considered an outlier.

Management of Data (ND data $\geq$ 75%)

If greater than or equal to 75% of the background dataset was less than the PQL, outliers were statistically evaluated using the following guidelines.

- Single detection $\geq$ PQL:
 - If $\geq$ 50% of the background dataset had detections $\geq$ method detection limit (MDL), any value $\geq$ two times PQL of background was considered an outlier.
 - If $<$ 50% of the background dataset had detections $\geq$ MDL, any value $\geq$ PQL of background was considered an outlier.
- Two or more detections $\geq$ PQL:
 - If $\geq$ 50% of the background dataset had detections $\geq$ MDL, any value $\geq$ three times PQL of background was considered an outlier.
 - If $<$ 50% of the background dataset had detections $\geq$ MDL, any value $\geq$ two times the PQL of background was considered an outlier.

Detection Monitoring Statistical Program

The detection monitoring statistical program for the Landfill is defined by Iowa Administrative Code (IAC) 567-113.10(4)"g". Interwell prediction limits with retesting were selected as appropriate statistical methods for the determination of statistically significant increases (SSIs) over background for inorganic constituents with historical detections in background. Prediction limits are established using the process below. Data from the most recent sampling events is compared to the prediction limit for determination of SSIs.

Interwell Prediction Limits

Interwell prediction limits were selected as the appropriate statistical method for the determination of constituents statistically above background. Prediction limits are established using the process below. Data from the most recent sampling events were compared to the prediction limits for the determination of constituents above background.

- If the dataset had a normal distribution (or could be transformed to a normal distribution using Ladder of Powers) and had less than 50% non-detects, parametric interwell prediction limits were calculated if at least five data sets had been collected.
- If the dataset did not have a normal distribution (and could not be transformed to a normal distribution using Ladder of Powers) or had greater than 50% non-detects, non-parametric interwell prediction limits were calculated if at least five data sets had been collected.

Double Quantification Method

The quasi-statistical "double quantification" method was used for constituents not detected in the background dataset. If a constituent that has not been historically detected in the background dataset was detected in the compliance dataset during two consecutive years, the SSI is confirmed.

Assessment Monitoring/Pre-Corrective Action Statistical Program

Confidence intervals or confidence bands, as appropriate, were selected as the appropriate statistical methods for comparison of the groundwater analytical data against a fixed groundwater protection standard (GWPS). The assessment/pre-corrective action monitoring statistical evaluations are performed using the most recent eight samples or all samples if less than eight samples are available. The confidence intervals or confidence bands used for the assessment/pre-corrective

action monitoring statistical evaluation are established using the process below. Transformation of the distribution is not considered.

Confidence Intervals or Confidence Bands

- A parametric confidence interval around a normal mean is calculated if the dataset has a normal distribution and no statistically significant trend is present.
- A non-parametric confidence interval around a median is calculated if the dataset does not have a normal distribution and no statistically significant trend is present.
- Non-parametric confidence bands around a Theil-Sen trend line are calculated if the dataset has a statistically significant trend.

In the event that the lower confidence limit or any part of the lower confidence band, as appropriate, exceeds the GWPS, then the monitoring point is declared out of compliance, and an assessment of corrective measures (ACM) is required. An ACM report was submitted on March 31, 2016 (Doc #85872).

Statistical Software Output

Sanitas™ statistical software is used to perform the statistical evaluations. Graphical output for the 1st and 2nd 2025 statistical evaluations is included in Attachments A and B of this appendix, respectively.

Attachment A

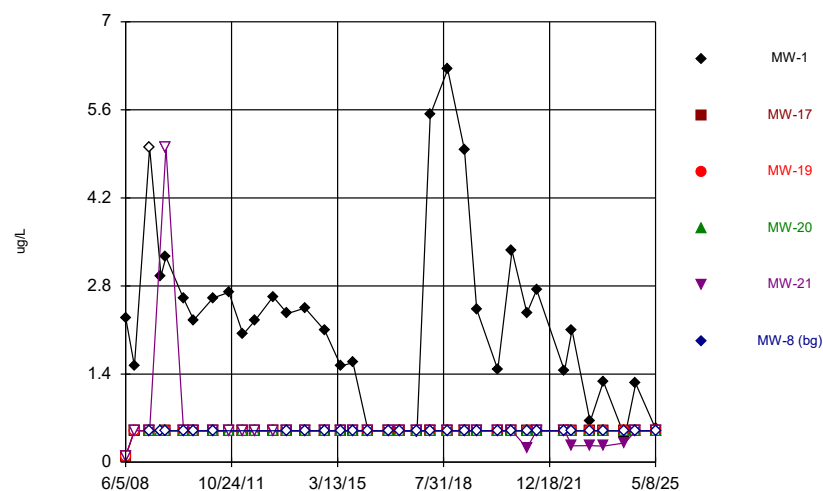
2025 1st Semi Annual Statistical Output



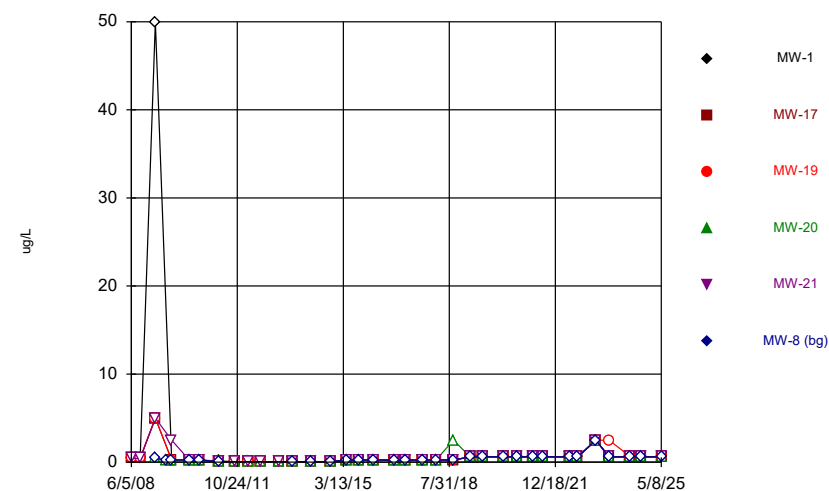
Attachment A-1

Time Series Graphs

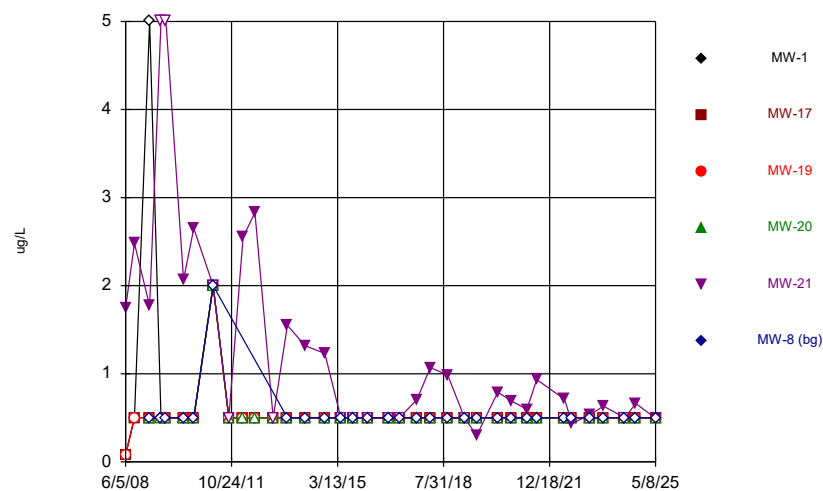
Time Series



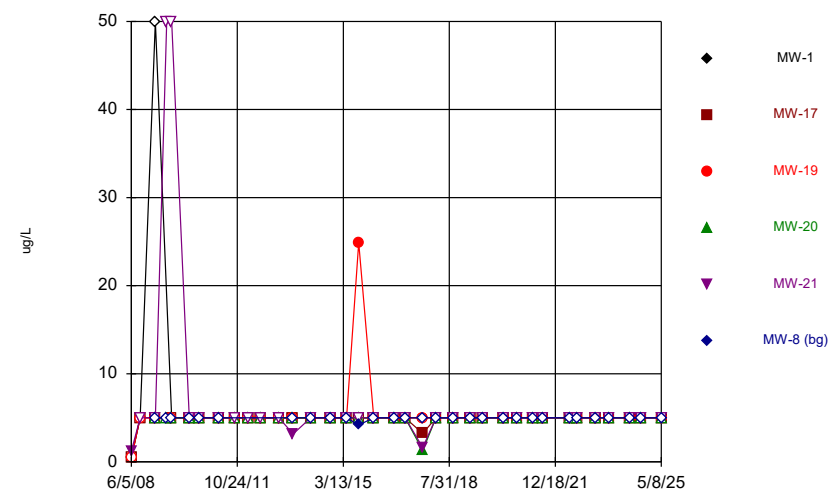
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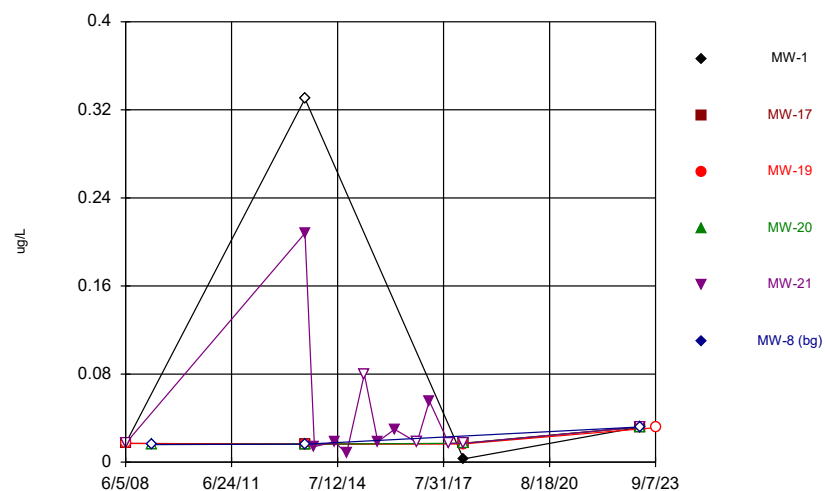
Time Series



Time Series

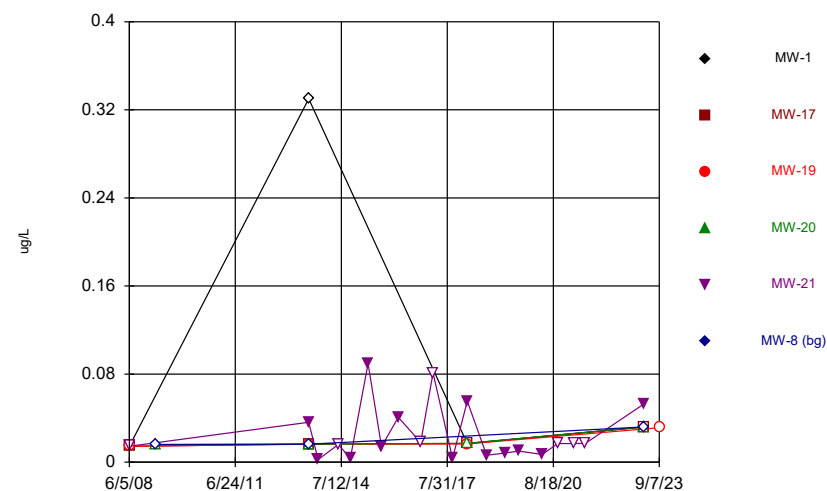


Time Series



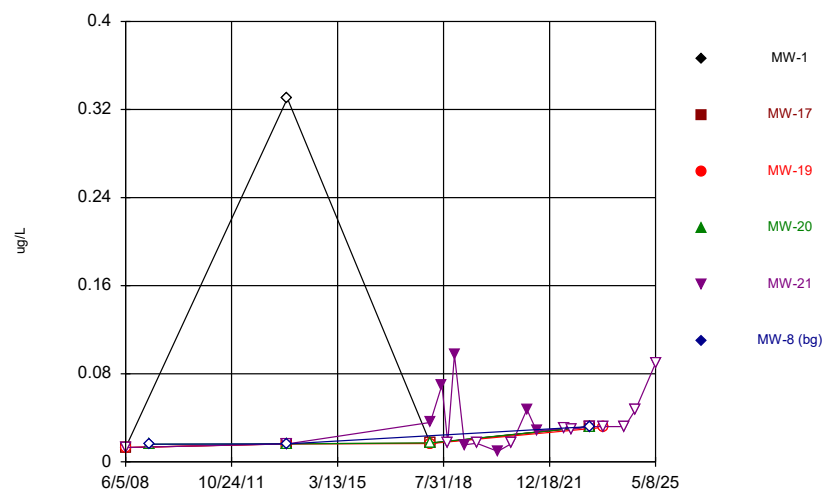
Constituent: 4,4'-DDD Analysis Run 7/25/2025 10:42 AM View: 2025_SSN-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



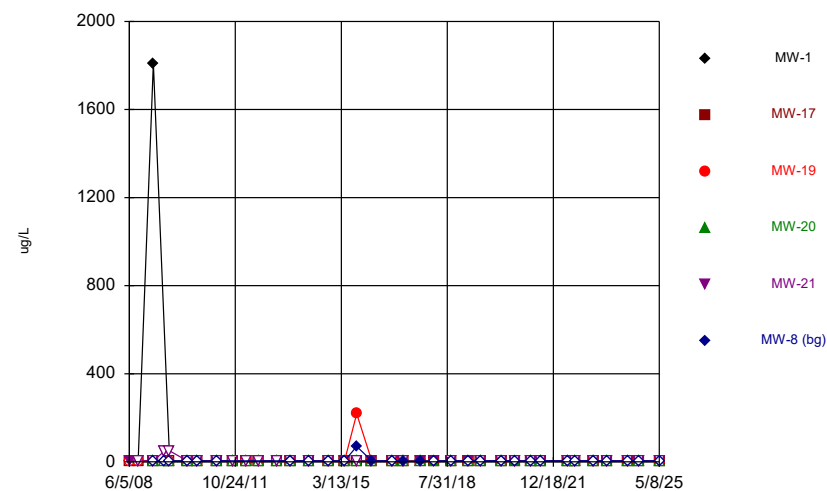
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Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



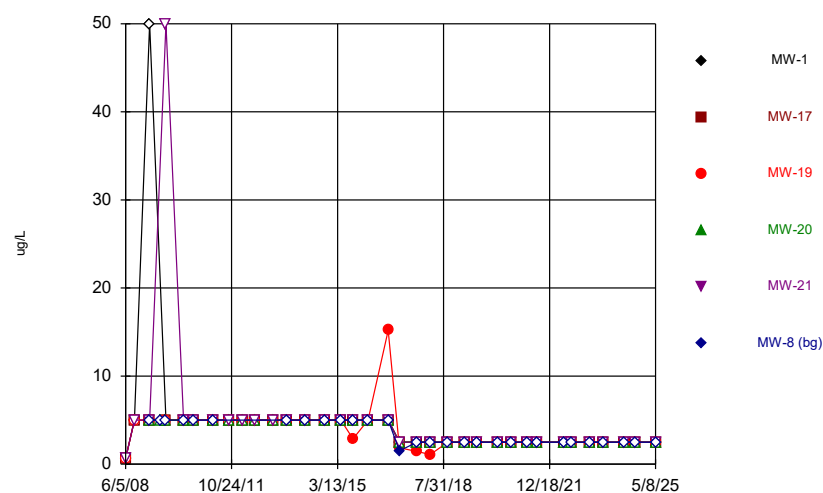
Constituent: 4,4'-DDT Analysis Run 7/25/2025 10:42 AM View: 2025_SSN-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



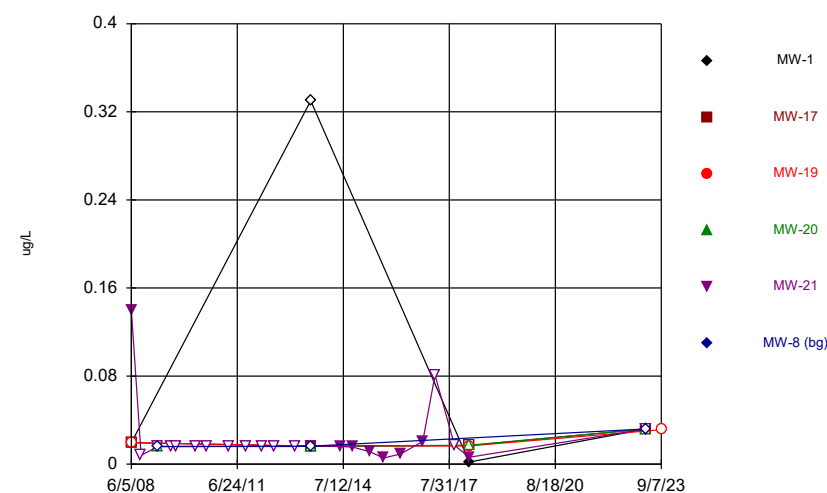
Constituent: Acetone Analysis Run 7/25/2025 10:42 AM View: 2025_SSN-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



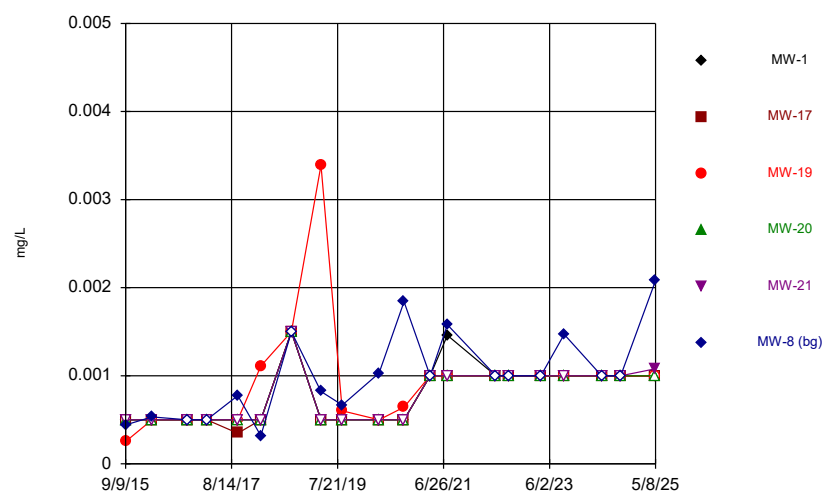
Constituent: Acrylonitrile Analysis Run 7/25/2025 10:42 AM View: 2025_SSN-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



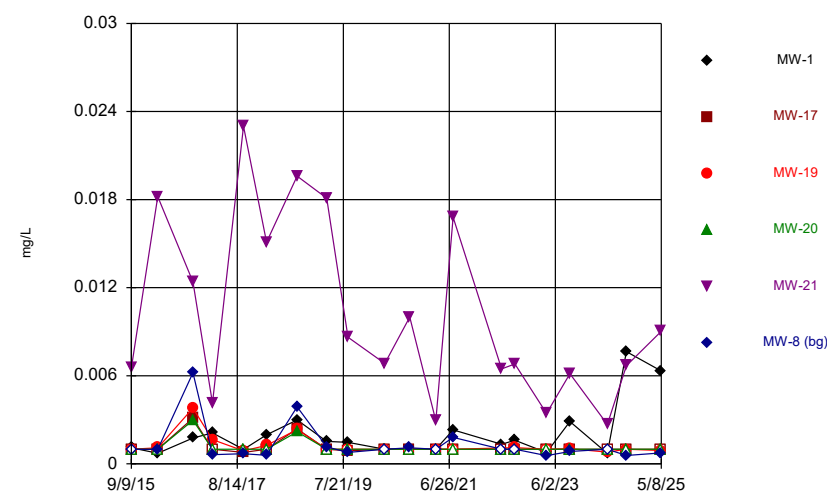
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Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



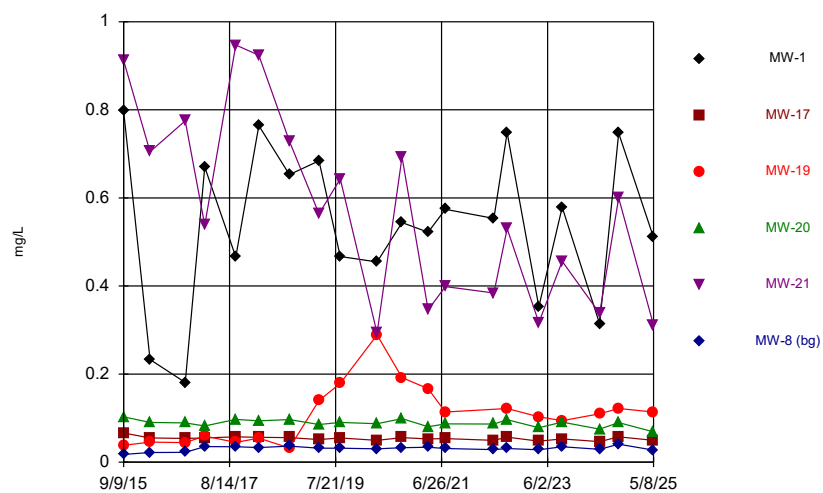
Constituent: Antimony Analysis Run 7/25/2025 10:42 AM View: 2025_SSN-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series

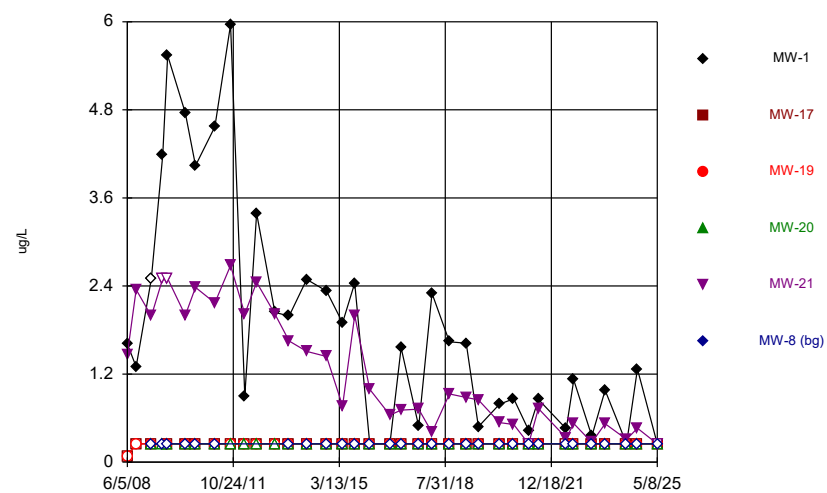


Constituent: Arsenic Analysis Run 7/25/2025 10:42 AM View: 2025_SSN-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

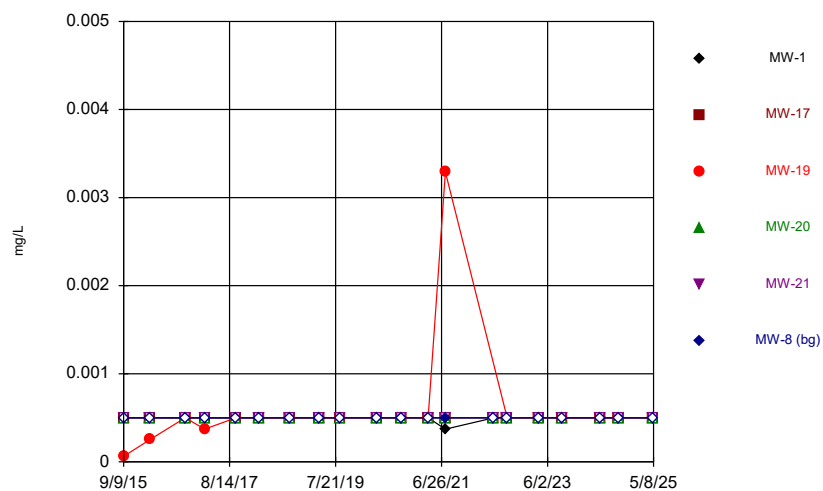
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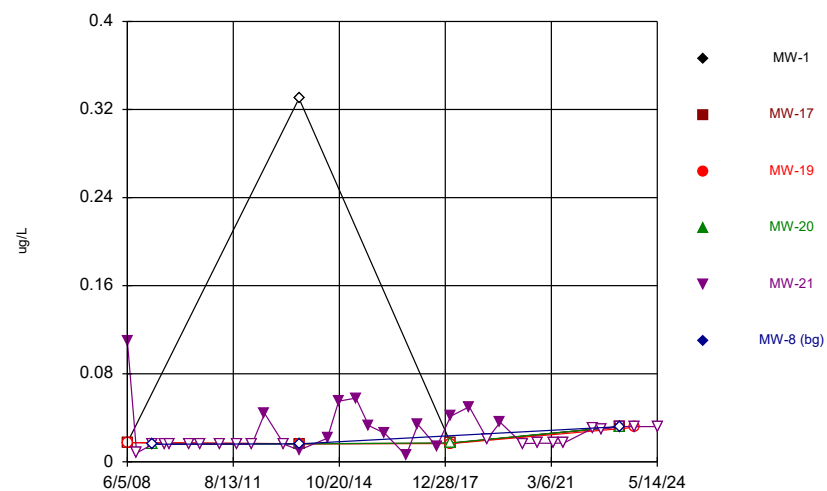
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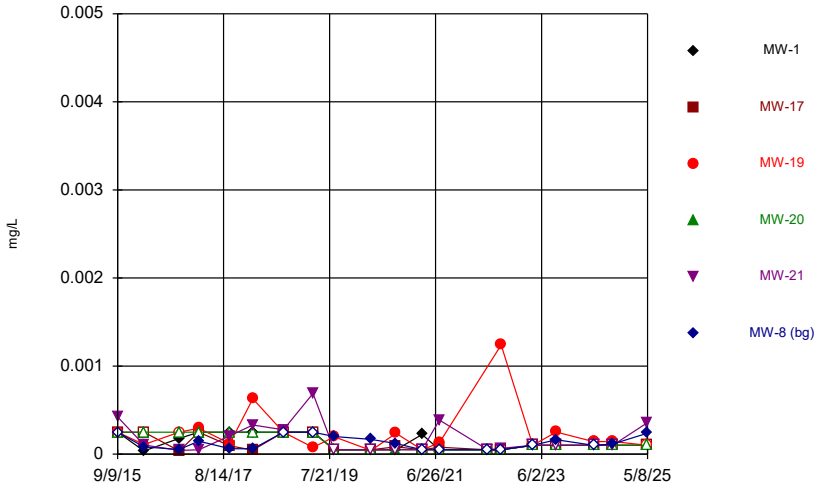
Time Series



Time Series

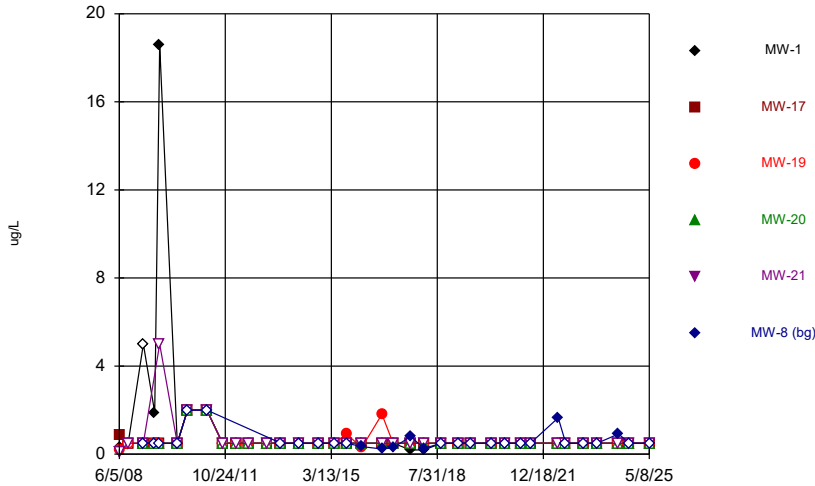


Time Series



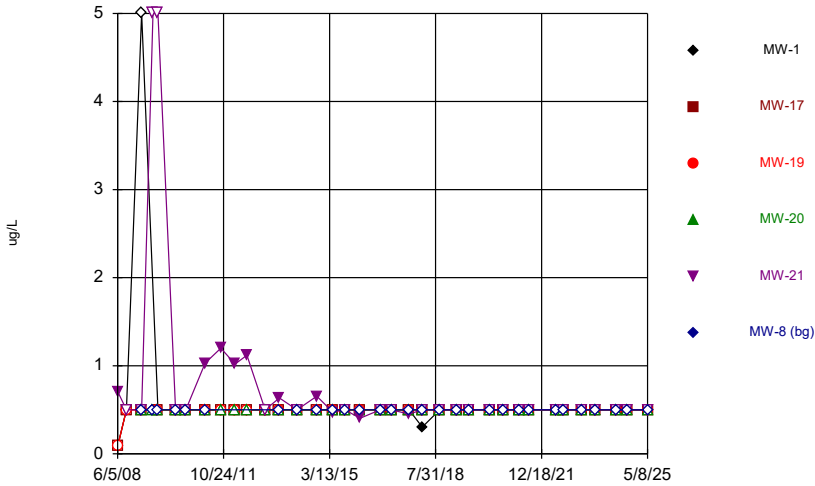
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Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



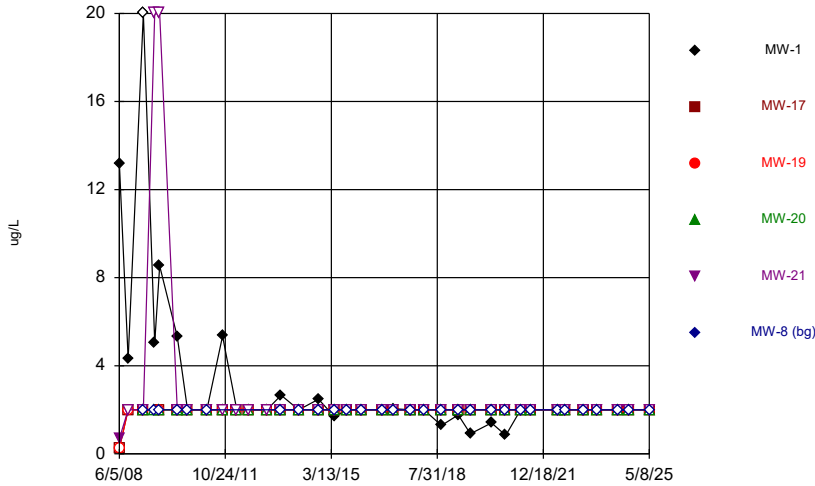
Constituent: Carbon disulfide Analysis Run 7/25/2025 10:42 AM View: 2025_SSN-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



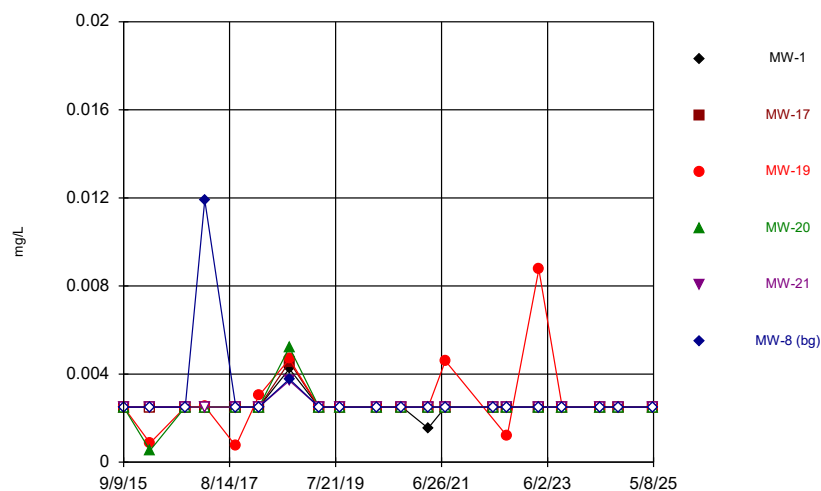
Constituent: Chlorobenzene Analysis Run 7/25/2025 10:42 AM View: 2025_SSN-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



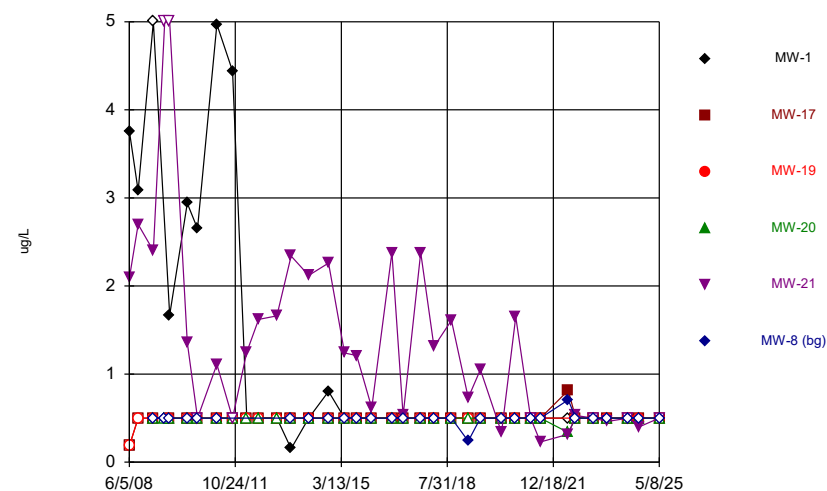
Constituent: Chloroethane Analysis Run 7/25/2025 10:42 AM View: 2025_SSN-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



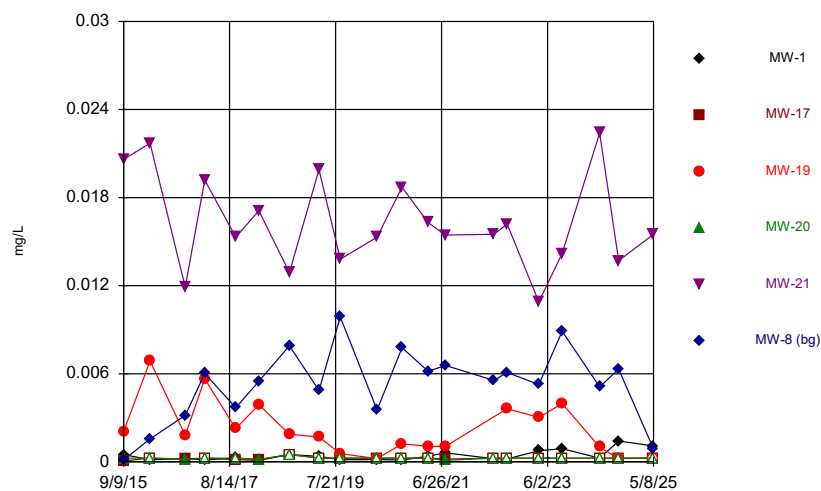
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Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

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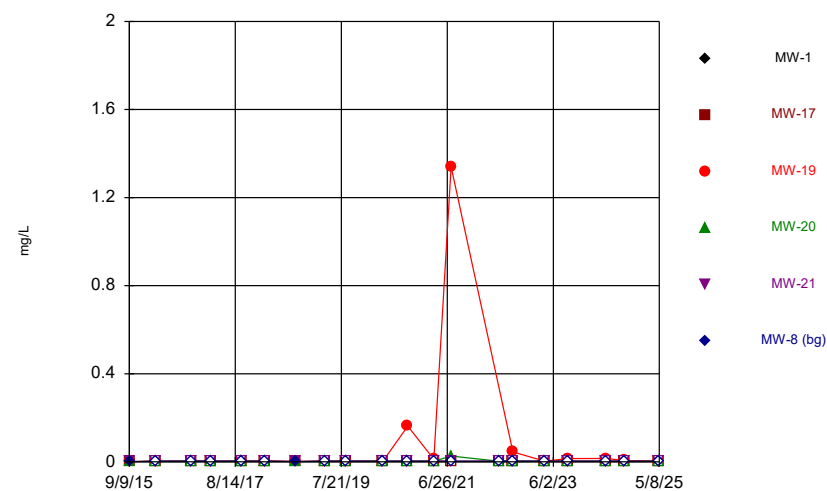
Constituent: cis-1,2-Dichloroethene Analysis Run 7/25/2025 10:43 AM View: 2025_SSN-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



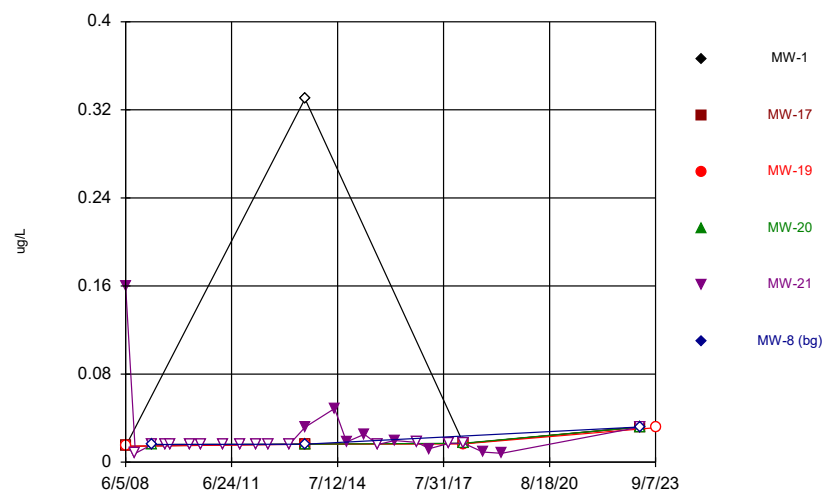
Constituent: Cobalt Analysis Run 7/25/2025 10:43 AM View: 2025_SSN-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series

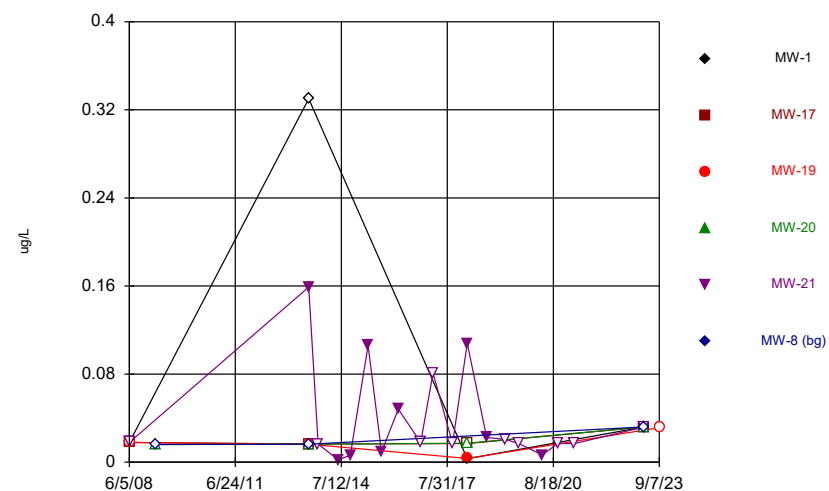


Constituent: Copper Analysis Run 7/25/2025 10:43 AM View: 2025_SSN-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

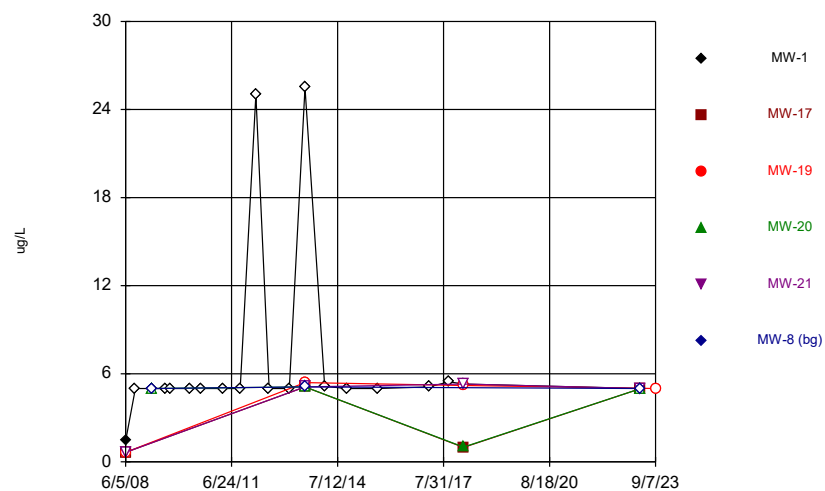
Time Series



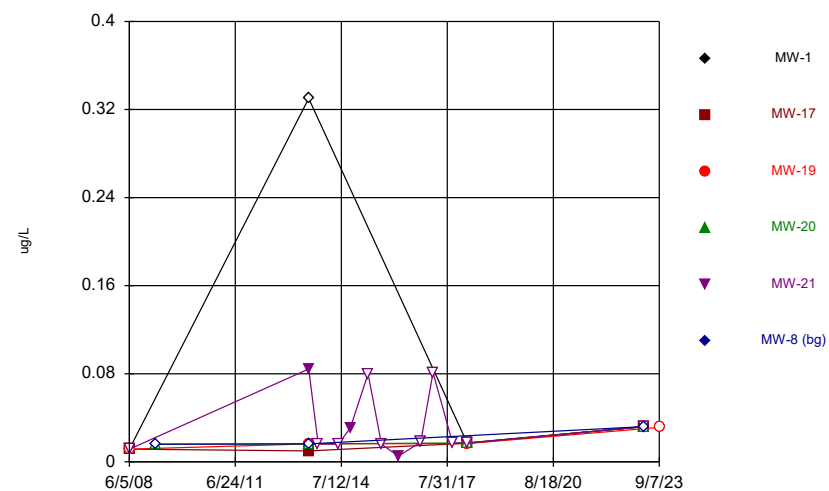
Time Series



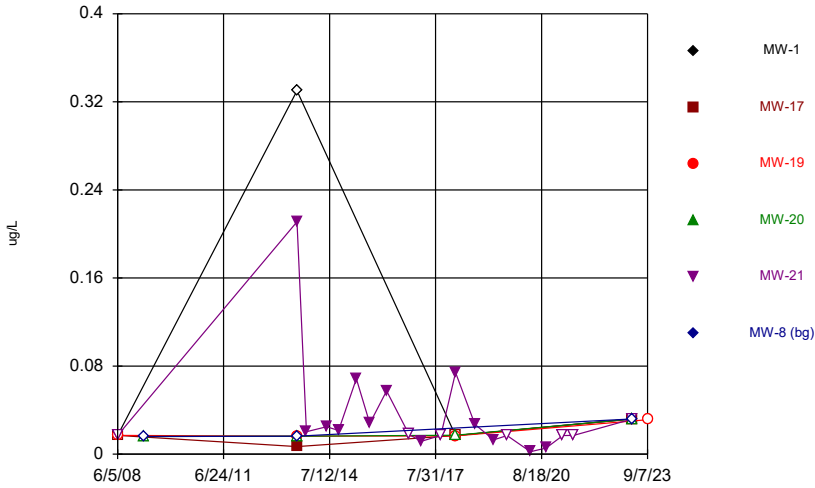
Time Series



Time Series

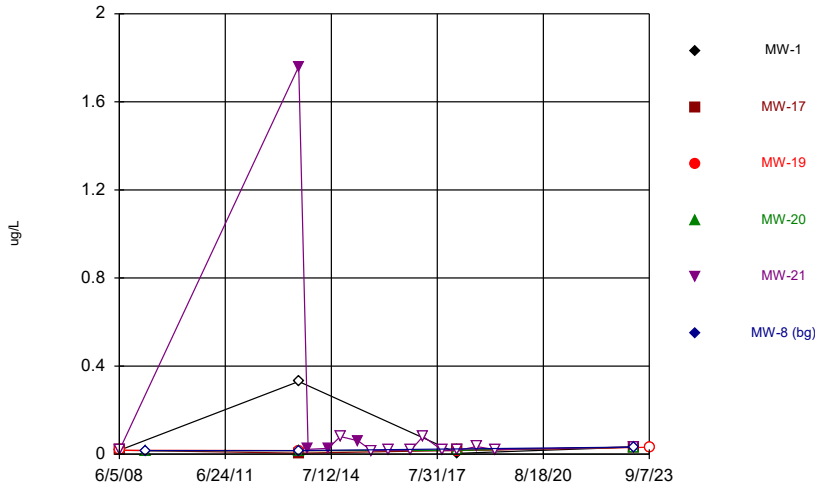


Time Series



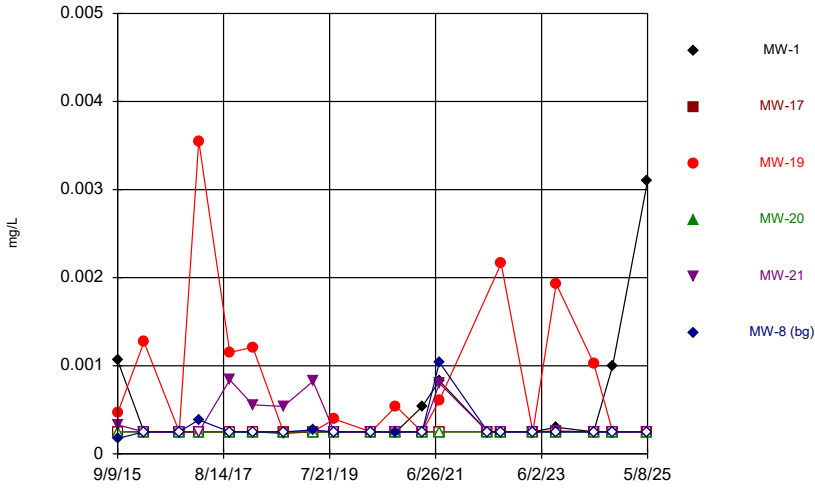
Constituent: Endrin Analysis Run 7/25/2025 10:43 AM View: 2025_SSN-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



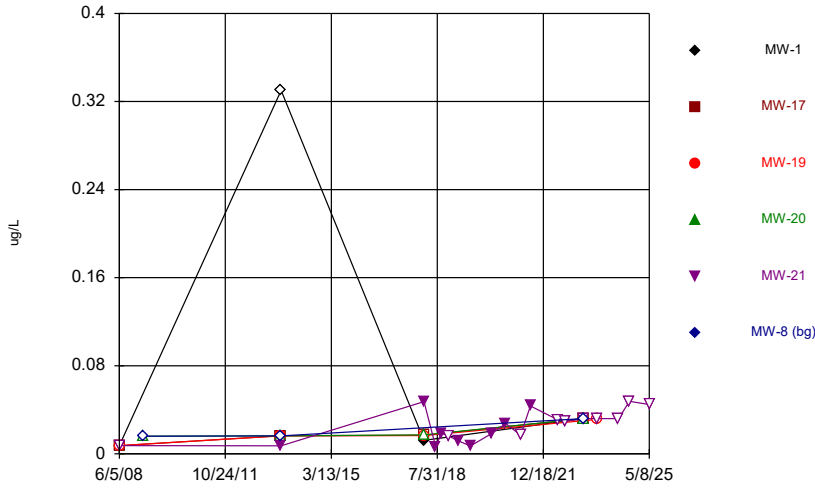
Constituent: Heptachlor Analysis Run 7/25/2025 10:43 AM View: 2025_SSN-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



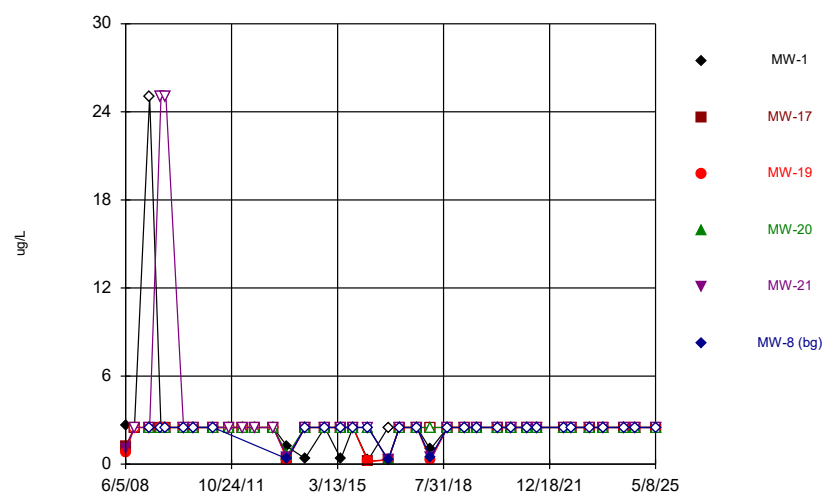
Constituent: Lead Analysis Run 7/25/2025 10:43 AM View: 2025_SSN-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



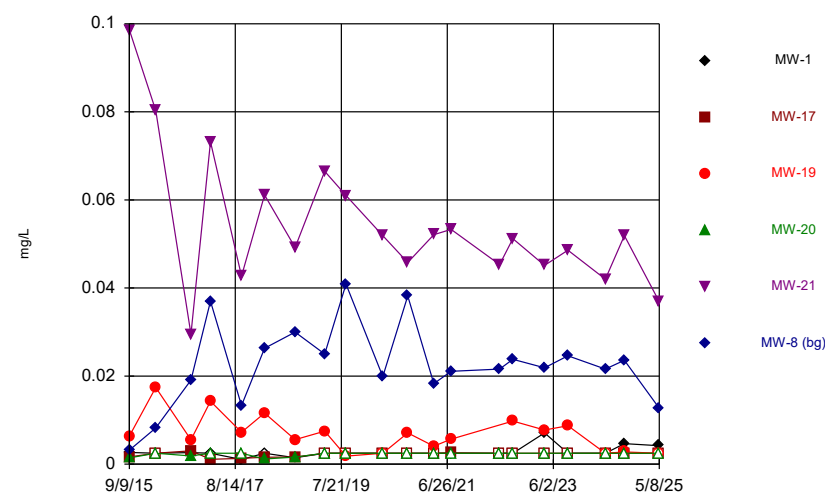
Constituent: Methoxychlor Analysis Run 7/25/2025 10:43 AM View: 2025_SSN-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



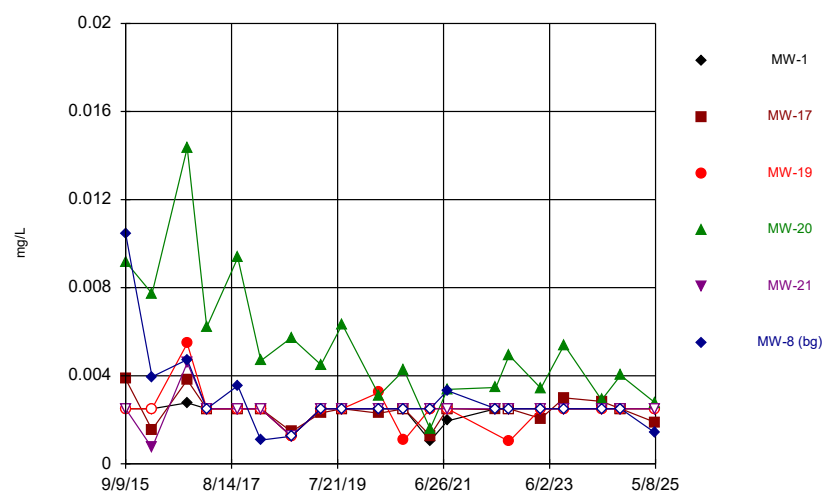
Constituent: Methylene Chloride Analysis Run 7/25/2025 10:43 AM View: 2025_SSN-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



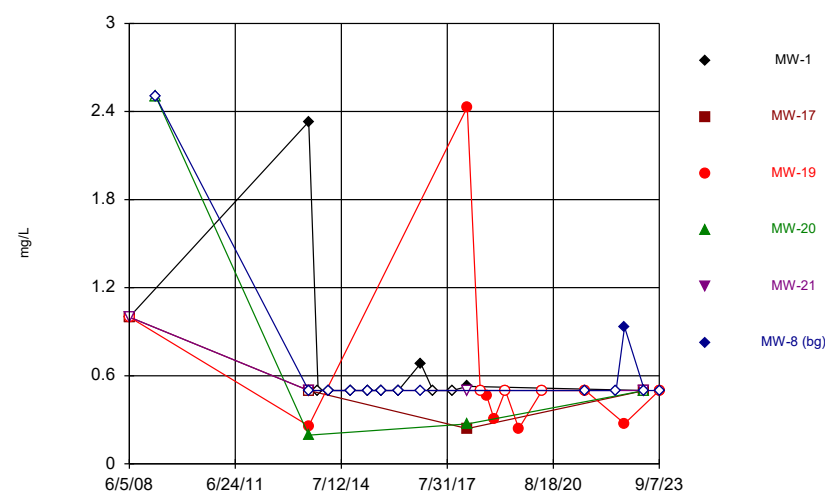
Constituent: Nickel Analysis Run 7/25/2025 10:43 AM View: 2025_SSN-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



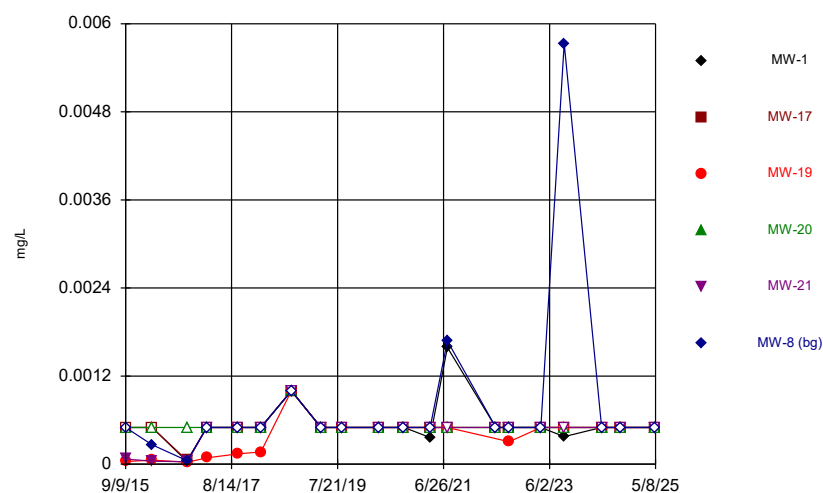
Constituent: Selenium Analysis Run 7/25/2025 10:43 AM View: 2025_SSN-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



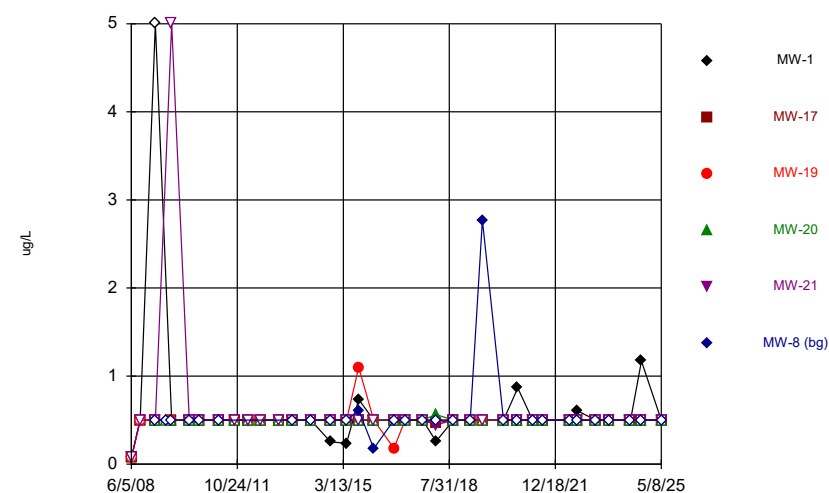
Constituent: Sulfide Analysis Run 7/25/2025 10:43 AM View: 2025_SSN-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



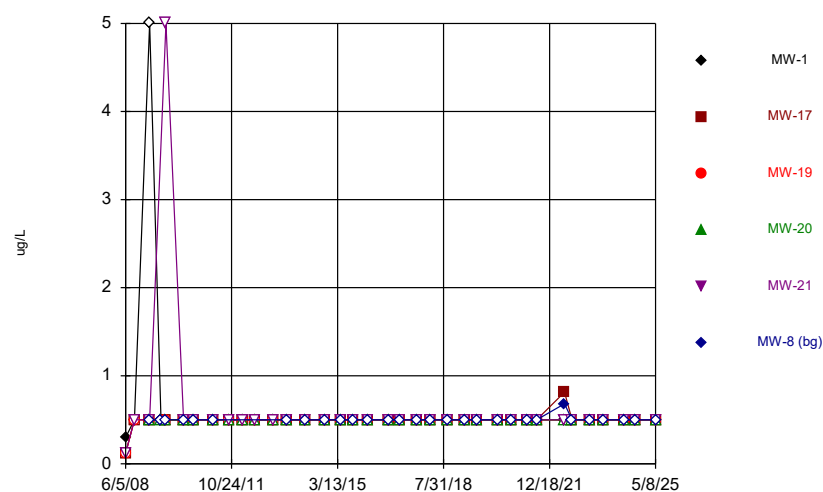
Constituent: Thallium Analysis Run 7/25/2025 10:43 AM View: 2025_SSN-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



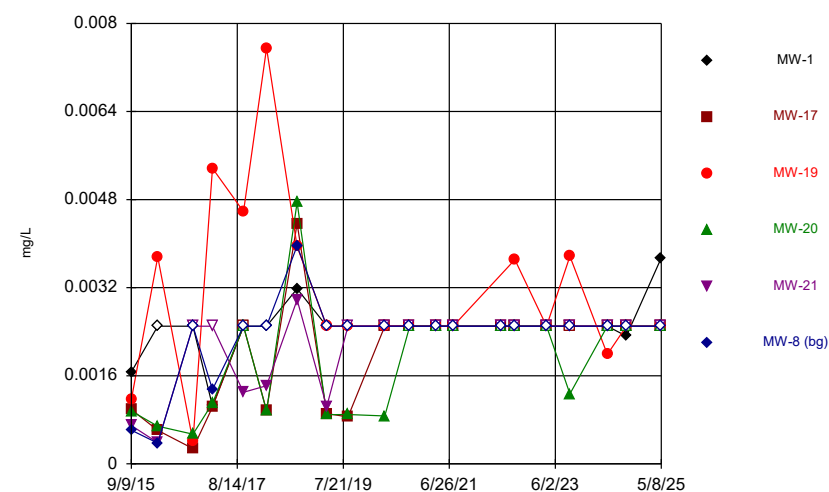
Constituent: Toluene Analysis Run 7/25/2025 10:43 AM View: 2025_SSN-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



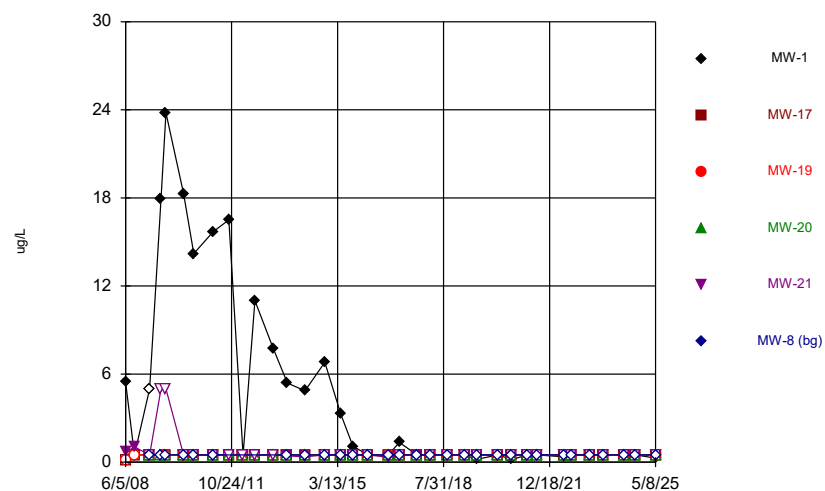
Constituent: Trichloroethene Analysis Run 7/25/2025 10:43 AM View: 2025_SSN-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



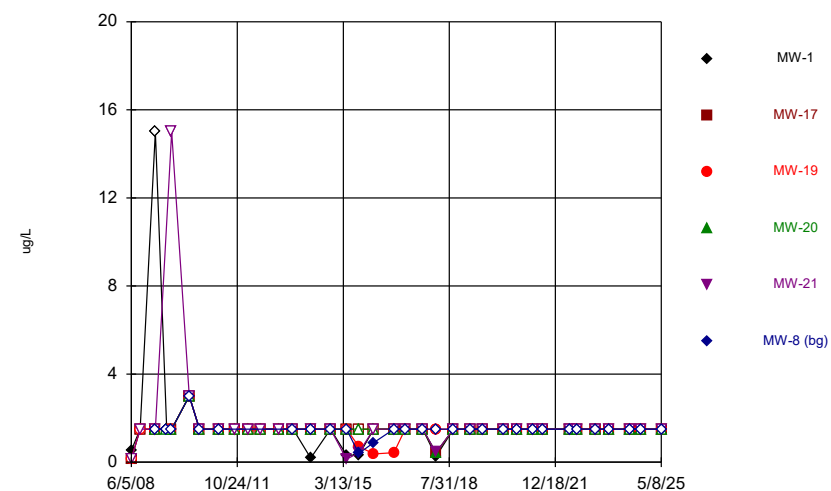
Constituent: Vanadium Analysis Run 7/25/2025 10:43 AM View: 2025_SSN-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



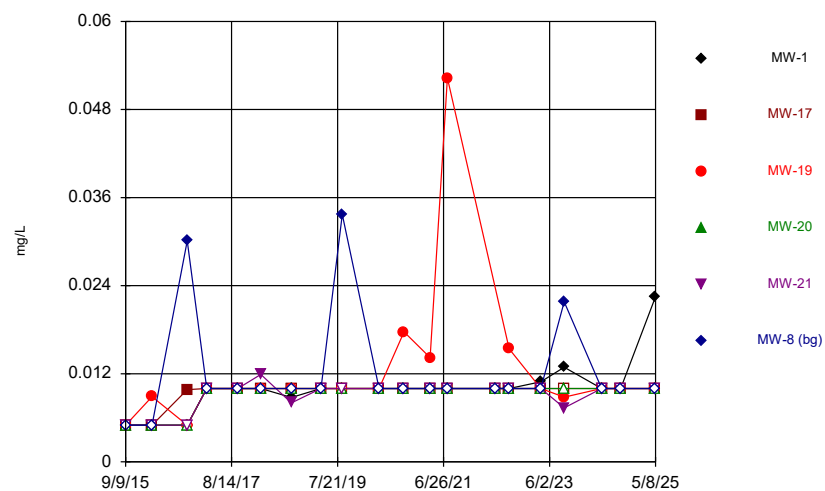
Constituent: Vinyl chloride Analysis Run 7/25/2025 10:43 AM View: 2025_SSN-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



Constituent: Xylenes, total Analysis Run 7/25/2025 10:43 AM View: 2025_SSN-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



Constituent: Zinc Analysis Run 7/25/2025 10:43 AM View: 2025_SSN-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Attachment A-2

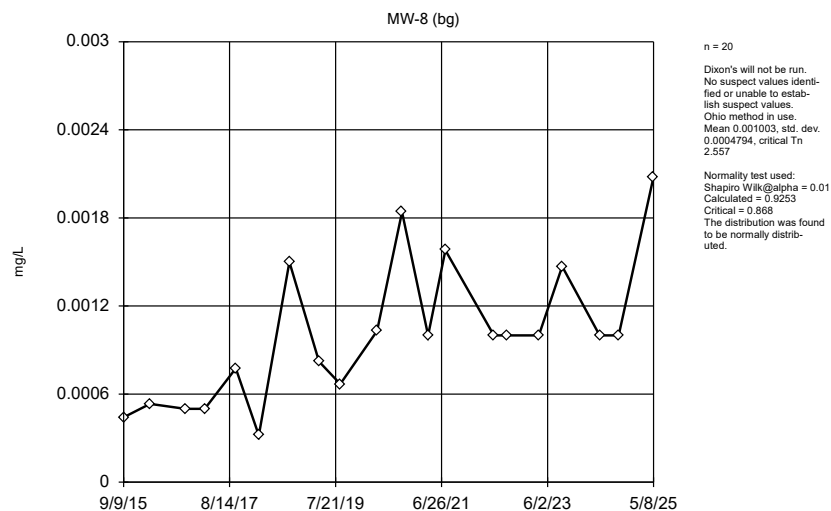
Outliers

Outlier Analysis

Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master Printed 7/25/2025, 11:11 AM

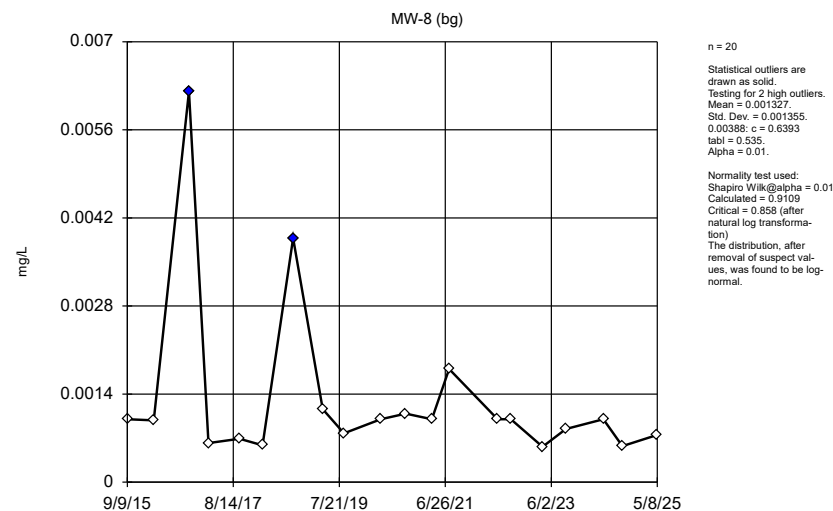
<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Antimony (mg/L)	MW-8 (bg)	No	n/a	n/a	EPA/OH	0.05	20	0.001003	0.0004794	normal	ShapiroWilk
Arsenic (mg/L)	MW-8 (bg)	Yes	0.00388,0.00621	9/17/2018,10/24/2016	Dixon/OH	0.01	20	0.001327	0.001355	ln(x)	ShapiroWilk
Barium (mg/L)	MW-8 (bg)	No	n/a	n/a	Dixon/OH	0.01	20	0.03066	0.005466	normal	ShapiroWilk
Beryllium (m...	MW-8 (bg)	No	n/a	n/a	OH	NaN	20	0.0005001	2.2e-7	n/a	n/a
Cadmium (mg/L)	MW-8 (bg)	No	n/a	n/a	EPA/OH	0.05	20	0.0001281	0.0000753	ln(x)	ShapiroWilk
Chromium (mg/L)	MW-8 (bg)	Yes	0.0119	3/3/2017	OH	NaN	20	0.003033	0.002106	n/a	n/a
Cobalt (mg/L)	MW-8 (bg)	No	n/a	n/a	Dixon/OH	0.01	20	0.005243	0.002535	normal	ShapiroWilk
Copper (mg/L)	MW-8 (bg)	No	n/a	n/a	OH	NaN	20	0.002374	0.0003892	n/a	n/a
Lead (mg/L)	MW-8 (bg)	Yes	0.00104	7/22/2021	OH	NaN	20	0.0002935	0.0001793	n/a	n/a
Nickel (mg/L)	MW-8 (bg)	No	n/a	n/a	Dixon/OH	0.01	20	0.02252	0.009395	normal	ShapiroWilk
Selenium (mg/L)	MW-8 (bg)	Yes	0.01046,0.00473,0.001...	9/9/2015,10/24/2016,2...	NP (nrm)/OH	NaN	20	0.002987	0.001949	unknown	ShapiroWilk
Silver (mg/L)	MW-8 (bg)	No	n/a	n/a	OH	NaN	20	0.0004812	0.0001365	n/a	n/a
Thallium (mg/L)	MW-8 (bg)	Yes	0.00573	9/7/2023	OH	NaN	20	0.0008111	0.001199	n/a	n/a
Vanadium (mg/L)	MW-8 (bg)	No	n/a	n/a	OH	NaN	20	0.002315	0.0007553	n/a	n/a
Zinc (mg/L)	MW-8 (bg)	No	n/a	n/a	OH	NaN	20	0.01228	0.007437	n/a	n/a

EPA Screening (suspected outliers for Dixon's Test)



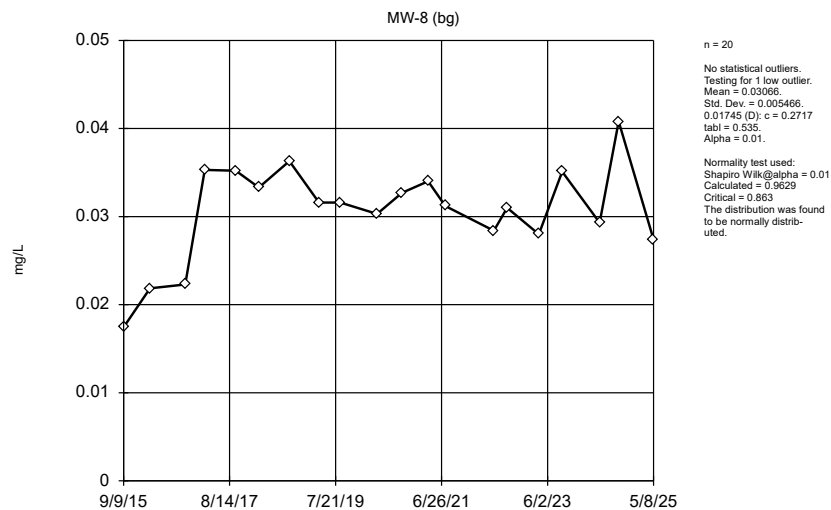
Constituent: Antimony Analysis Run 7/25/2025 11:05 AM View: 2025_SSN-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Dixon's Outlier Test / Ohio EPA 0715 Outlier Algorithm



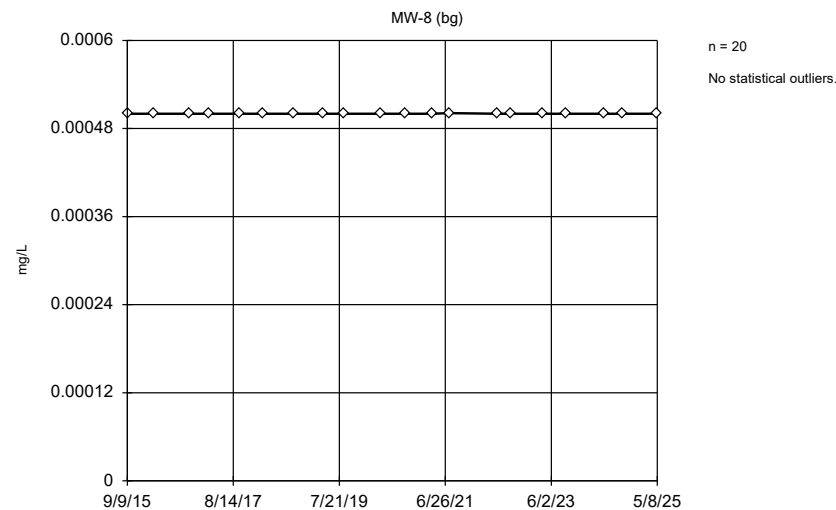
Constituent: Arsenic Analysis Run 7/25/2025 11:05 AM View: 2025_SSN-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Dixon's Outlier Test / Ohio EPA 0715 Outlier Algorithm



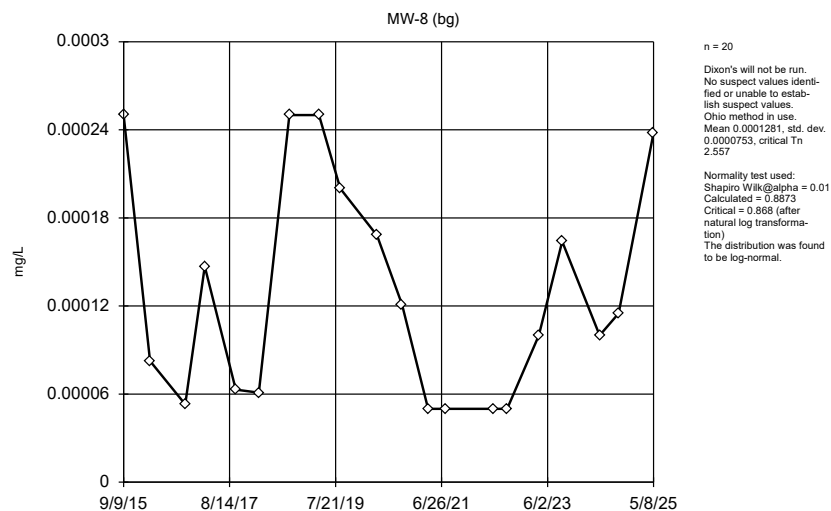
Constituent: Barium Analysis Run 7/25/2025 11:05 AM View: 2025_SSN-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Ohio EPA 0715 Outlier Algorithm



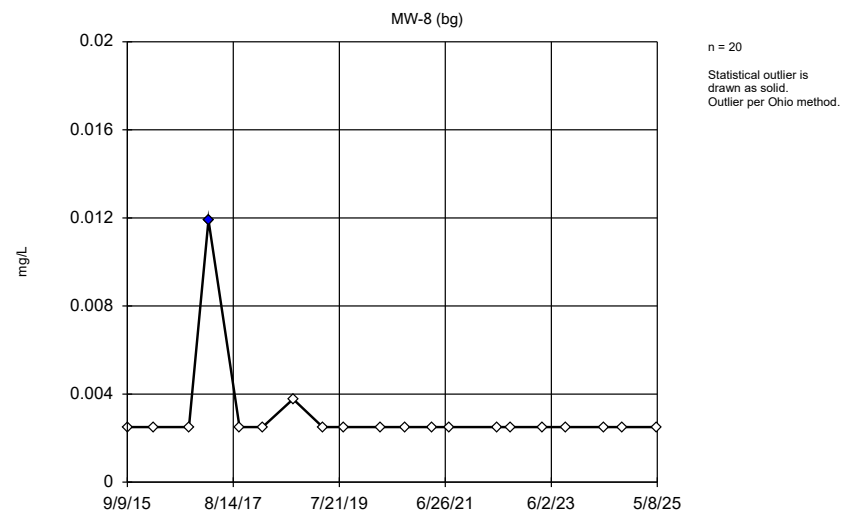
Constituent: Beryllium Analysis Run 7/25/2025 11:05 AM View: 2025_SSN-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

EPA Screening (suspected outliers for Dixon's Test)



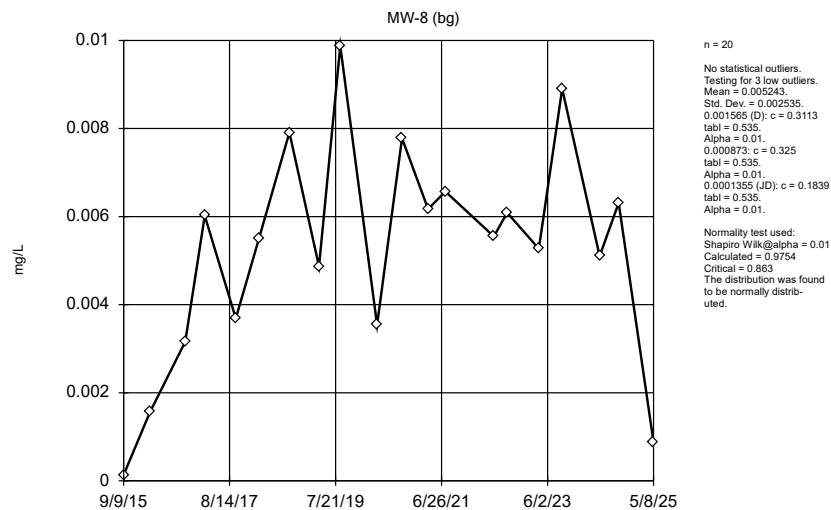
Constituent: Cadmium Analysis Run 7/25/2025 11:05 AM View: 2025_SSN-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Ohio EPA 0715 Outlier Algorithm



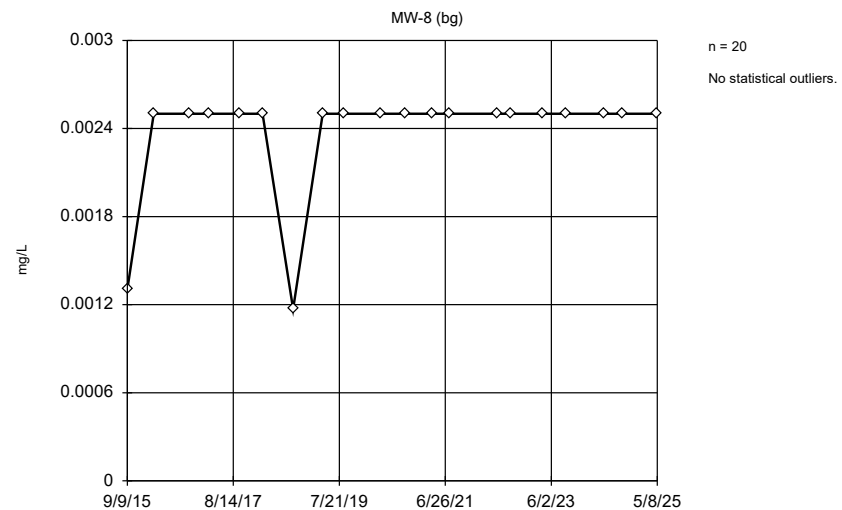
Constituent: Chromium Analysis Run 7/25/2025 11:05 AM View: 2025_SSN-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Dixon's Outlier Test / Ohio EPA 0715 Outlier Algorithm



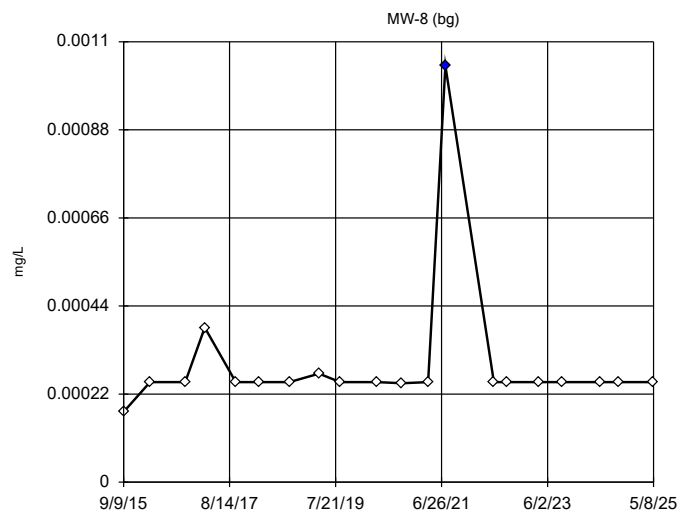
Constituent: Cobalt Analysis Run 7/25/2025 11:05 AM View: 2025_SSN-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Ohio EPA 0715 Outlier Algorithm



Constituent: Copper Analysis Run 7/25/2025 11:05 AM View: 2025_SSN-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Ohio EPA 0715 Outlier Algorithm



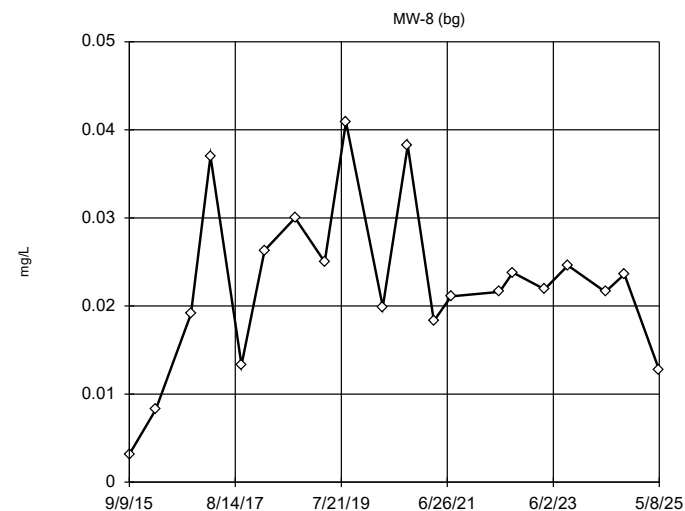
n = 20

Statistical outlier is drawn as solid.
Outlier per Ohio method.

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9754
Critical = 0.863
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Lead Analysis Run 7/25/2025 11:05 AM View: 2025_SSN-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Dixon's Outlier Test / Ohio EPA 0715 Outlier Algorithm



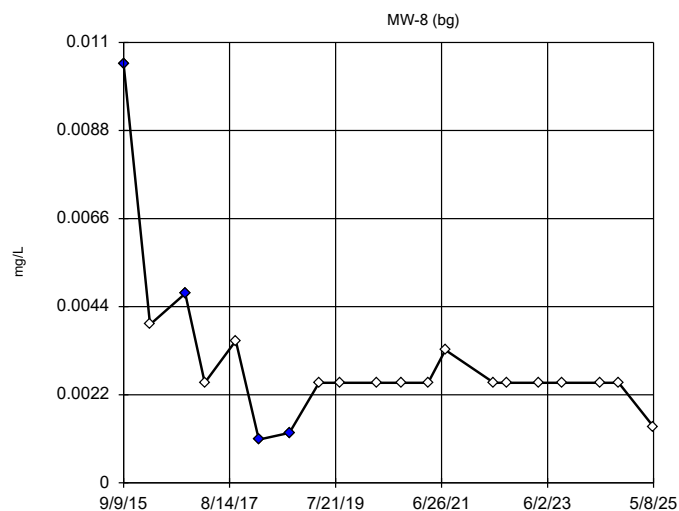
n = 20

No statistical outliers.
Testing for 2 low outliers.
Mean = 0.02252
Std. Dev. = 0.009395
0.00824 (D); c = 0.1759
tab1 = 0.535
Alpha = 0.01.
0.003175 (JD); c = 0.2816
tab1 = 0.535
Alpha = 0.01.

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9424
Critical = 0.863
The distribution was found to be normally distributed.

Constituent: Nickel Analysis Run 7/25/2025 11:05 AM View: 2025_SSN-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm



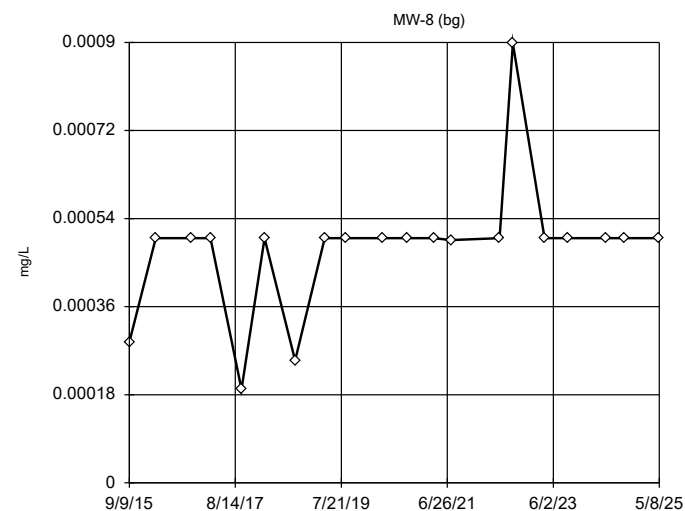
n = 20

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.01 alpha level.

High cutoff = 0.00414,
low cutoff = 0.00127,
based on IQR multiplier of 3.

Constituent: Selenium Analysis Run 7/25/2025 11:05 AM View: 2025_SSN-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

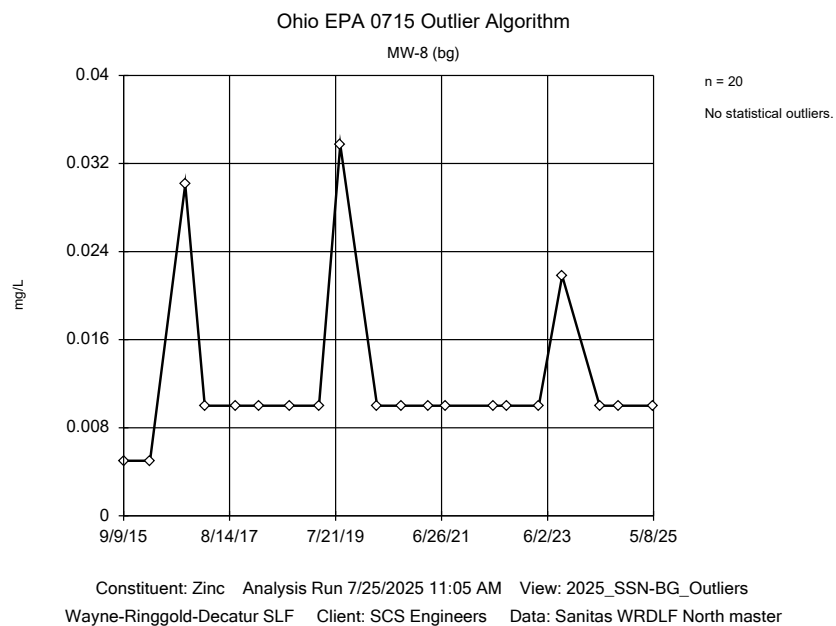
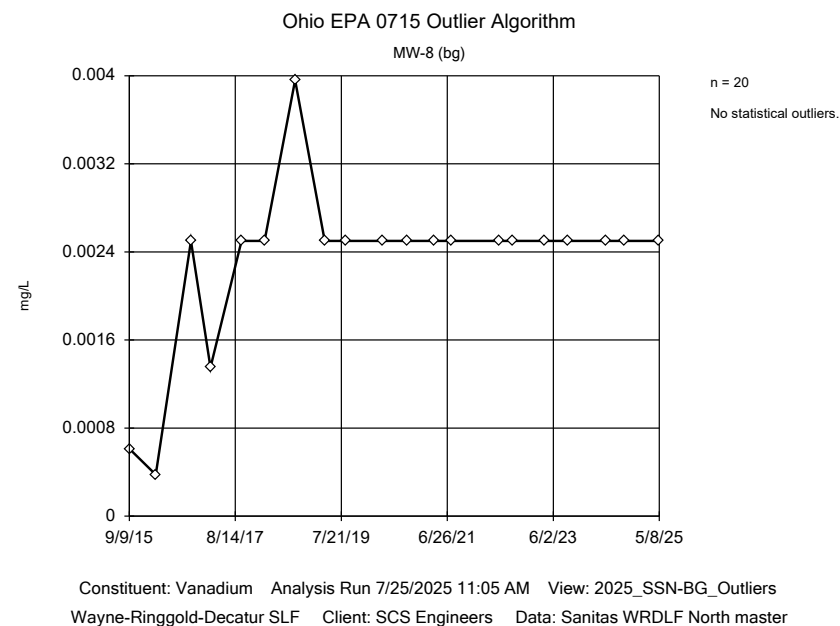
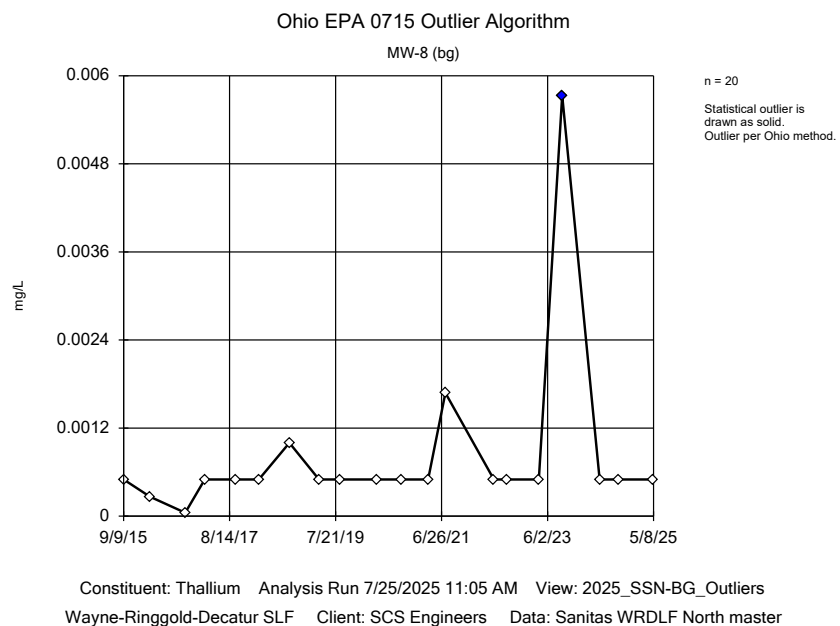
Ohio EPA 0715 Outlier Algorithm



n = 20

No statistical outliers.

Constituent: Silver Analysis Run 7/25/2025 11:05 AM View: 2025_SSN-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master





Attachment A-3

Prediction Limits

Prediction Limit

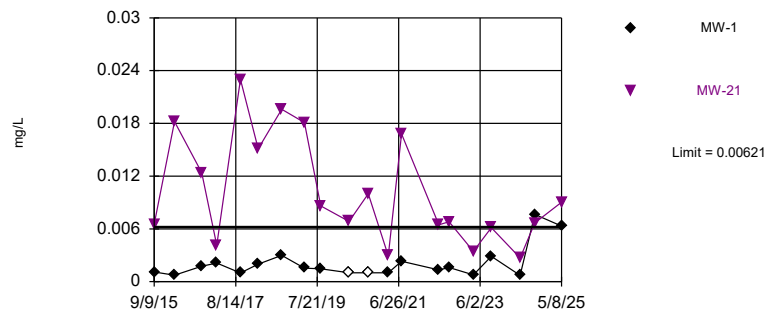
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master Printed 7/25/2025, 12:00 PM

<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>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Arsenic (mg/L)	MW-1	0.00621	n/a	5/8/2025	0.00632	Yes	20	30	n/a	0.004024	NP Inter (normality) 1 of 2
Arsenic (mg/L)	MW-21	0.00621	n/a	5/8/2025	0.00903	Yes	20	30	n/a	0.004024	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-1	0.04317	n/a	5/8/2025	0.51	Yes	20	0	No	0.0007022	Param Inter 1 of 2
Barium (mg/L)	MW-17	0.04317	n/a	5/8/2025	0.0495	Yes	20	0	No	0.0007022	Param Inter 1 of 2
Barium (mg/L)	MW-19	0.04317	n/a	5/8/2025	0.114	Yes	20	0	No	0.0007022	Param Inter 1 of 2
Barium (mg/L)	MW-20	0.04317	n/a	5/8/2025	0.0688	Yes	20	0	No	0.0007022	Param Inter 1 of 2
Barium (mg/L)	MW-21	0.04317	n/a	5/8/2025	0.311	Yes	20	0	No	0.0007022	Param Inter 1 of 2
Cadmium (mg/L)	MW-21	0.000257	n/a	5/8/2025	0.000358	Yes	20	45	sqrt(x)	0.0007022	Param Inter 1 of 2
Cobalt (mg/L)	MW-1	0.01105	n/a	5/8/2025	0.00108	No	20	0	No	0.0007022	Param Inter 1 of 2
Cobalt (mg/L)	MW-21	0.01105	n/a	5/8/2025	0.0155	Yes	20	0	No	0.0007022	Param Inter 1 of 2
Lead (mg/L)	MW-1	0.00104	n/a	5/8/2025	0.0031	Yes	20	75	n/a	0.004024	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-21	0.04403	n/a	5/8/2025	0.0369	No	20	0	No	0.0007022	Param Inter 1 of 2
Zinc (mg/L)	MW-1	0.0337	n/a	5/8/2025	0.0225	No	20	85	n/a	0.004024	NP Inter (NDs) 1 of 2

Exceeds Limit: MW-1, MW-21

Prediction Limit

Interwell Non-parametric



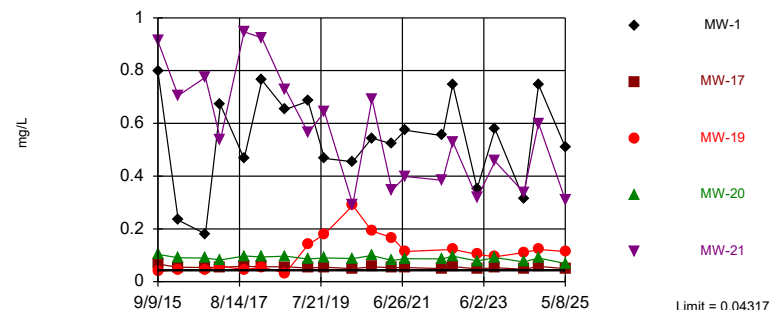
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 20 background values. 30% NDs. Annual per-constituent alpha = 0.03952. Individual comparison alpha = 0.004024 (1 of 2). Comparing 2 points to limit. Assumes 3 future values.

Constituent: Arsenic Analysis Run 7/25/2025 11:53 AM View: 2025_SSN-AM_Interwell_PL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Exceeds Limit: MW-1, MW-17, MW-19, MW-20, MW-21

Prediction Limit

Interwell Parametric



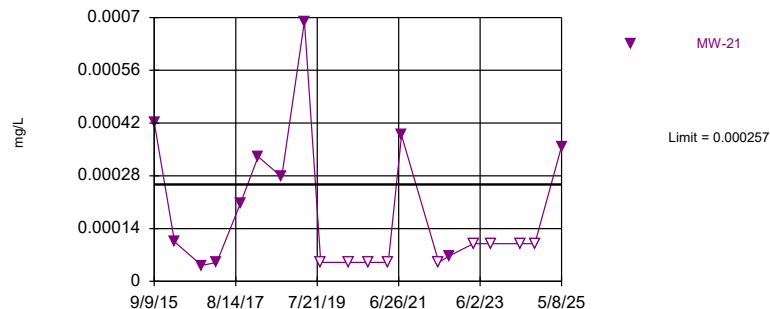
Background Data Summary: Mean=0.03066, Std. Dev.=0.005466, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9485, critical = 0.868. Kappa = 2.29 (c=15, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.003506. Individual comparison alpha = 0.0007022. Comparing 5 points to limit.

Constituent: Barium Analysis Run 7/25/2025 11:53 AM View: 2025_SSN-AM_Interwell_PL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Exceeds Limit: MW-21

Prediction Limit

Interwell Parametric



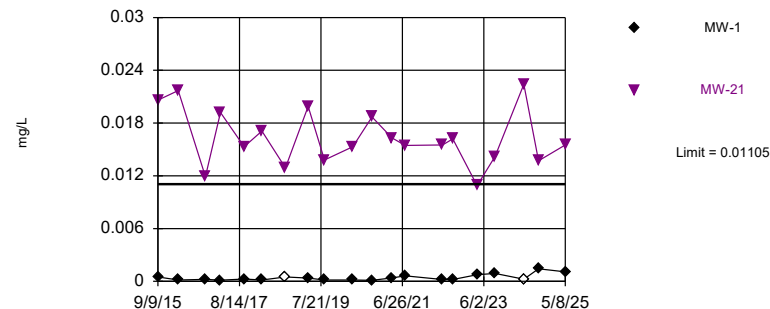
Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.01014, Std. Dev.=0.00257, n=20, 45% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8818, critical = 0.868. Kappa = 2.29 (c=15, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.003506. Individual comparison alpha = 0.0007022. Assumes 4 future values.

Constituent: Cadmium Analysis Run 7/25/2025 11:53 AM View: 2025_SSN-AM_Interwell_PL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Exceeds Limit: MW-21

Prediction Limit

Interwell Parametric



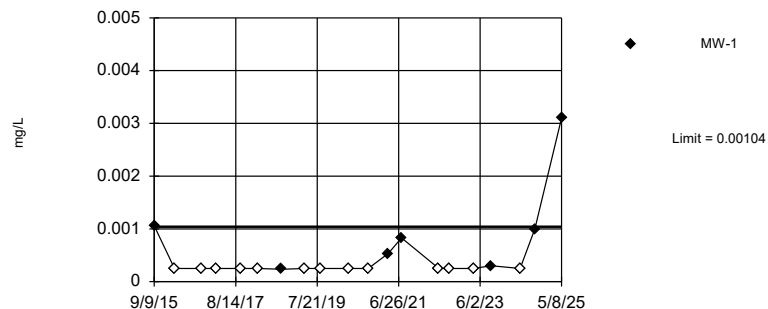
Background Data Summary: Mean=0.005243, Std. Dev.=0.002535, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9681, critical = 0.868. Kappa = 2.29 (c=15, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.003506. Individual comparison alpha = 0.0007022. Comparing 2 points to limit. Assumes 3 future values.

Constituent: Cobalt Analysis Run 7/25/2025 11:53 AM View: 2025_SSN-AM_Interwell_PL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Exceeds Limit: MW-1

Prediction Limit

Interwell Non-parametric



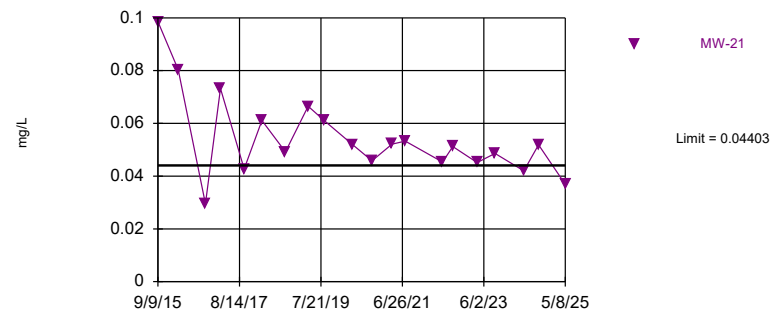
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 75% NDs. Annual per-constituent alpha = 0.03952. Individual comparison alpha = 0.004024 (1 of 2). Assumes 4 future values.

Constituent: Lead Analysis Run 7/25/2025 11:53 AM View: 2025_SSN-AM_Interwell_PL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Within Limit

Prediction Limit

Interwell Parametric



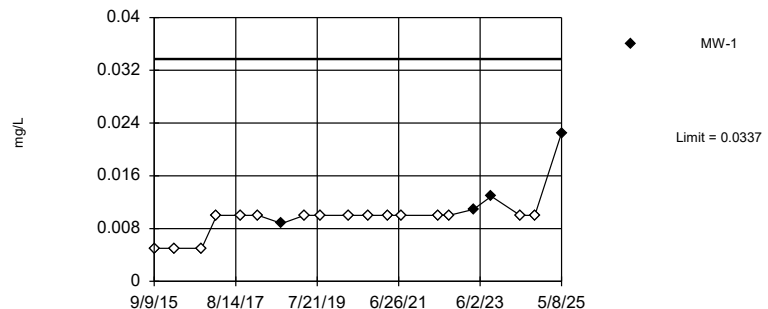
Background Data Summary: Mean=0.02252, Std. Dev.=0.009395, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9583, critical = 0.868. Kappa = 2.29 (c=15, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.003506. Individual comparison alpha = 0.0007022. Assumes 4 future values.

Constituent: Nickel Analysis Run 7/25/2025 11:53 AM View: 2025_SSN-AM_Interwell_PL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Within Limit

Prediction Limit

Interwell 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. Annual per-constituent alpha = 0.03952. Individual comparison alpha = 0.004024 (1 of 2). Assumes 4 future values.

Constituent: Zinc Analysis Run 7/25/2025 11:53 AM View: 2025_SSN-AM_Interwell_PL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Attachment A-4
Mann-Kendall Trends

Trend Test

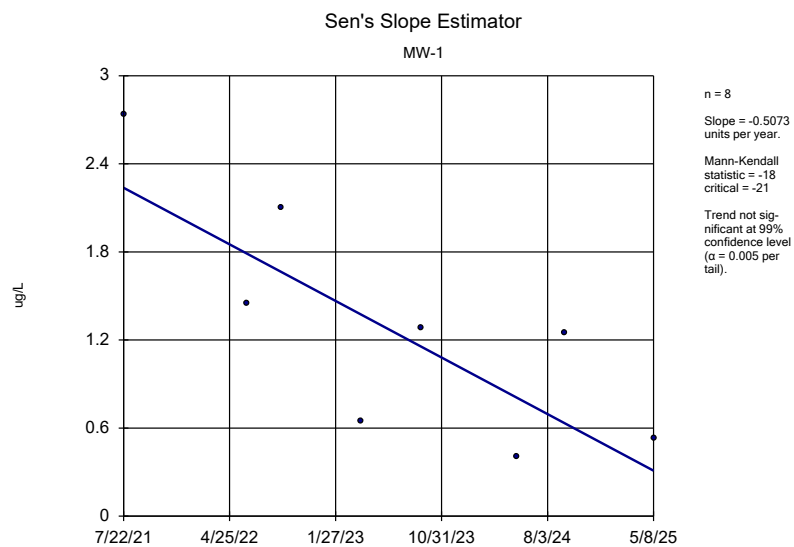
Wayne-Ringgold-Decatur SLF

Client: SCS Engineers

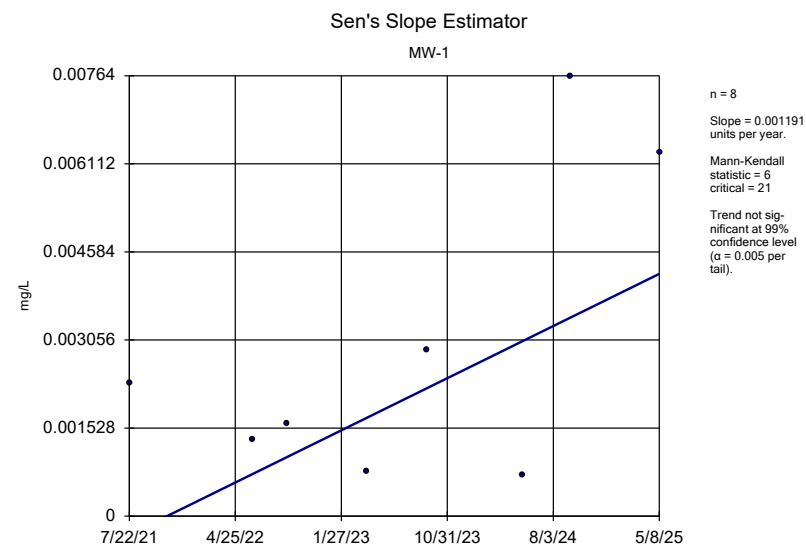
Data: WRDLFN-2025_SSN-AM

Printed 7/28/2025, 12:46 PM

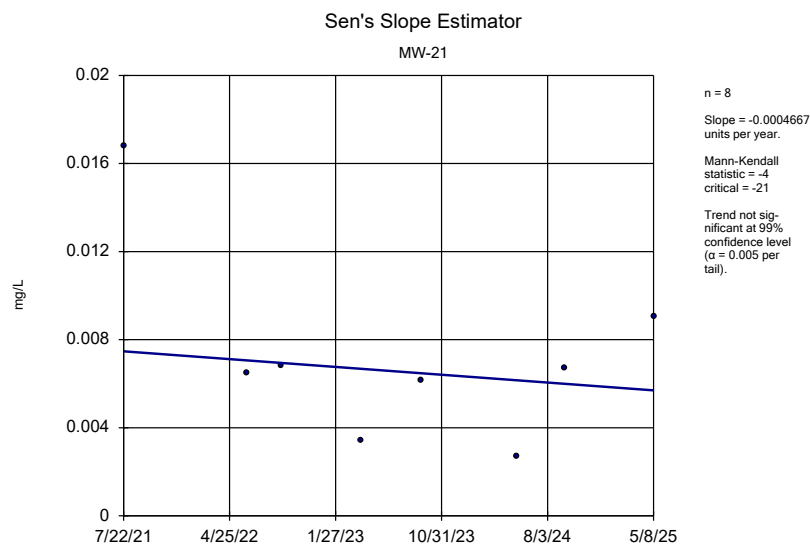
<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
1,1-Dichloroethane (ug/L)	MW-1	-0.5073	-18	-21	No	8	0	0.01	NP
Arsenic (mg/L)	MW-1	0.001191	6	21	No	8	0	0.01	NP
Arsenic (mg/L)	MW-21	-0.0004667	-4	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-1	-0.0159	-4	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-17	-0.0007874	-2	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-19	-0.004725	-6	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-20	-0.004452	-10	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-21	-0.01894	-4	-21	No	8	0	0.01	NP
Benzene (ug/L)	MW-1	-0.08206	-5	-21	No	8	25	0.01	NP
Benzene (ug/L)	MW-21	-0.06743	-14	-21	No	8	12.5	0.01	NP
Beryllium (mg/L)	MW-19	0	-5	-21	No	8	87.5	0.01	NP
Cadmium (mg/L)	MW-19	0.000004682	3	21	No	8	37.5	0.01	NP
Cadmium (mg/L)	MW-21	0.00001788	8	21	No	8	62.5	0.01	NP
Chromium (mg/L)	MW-19	0	-2	-21	No	8	62.5	0.01	NP
Cobalt (mg/L)	MW-1	0.0002054	14	21	No	8	12.5	0.01	NP
Cobalt (mg/L)	MW-19	-0.0002253	-10	-21	No	8	12.5	0.01	NP
Cobalt (mg/L)	MW-21	0.000006584	1	21	No	8	0	0.01	NP
Copper (mg/L)	MW-19	-0.007877	-12	-21	No	8	12.5	0.01	NP
Copper (mg/L)	MW-20	0	-7	-21	No	8	87.5	0.01	NP
Lead (mg/L)	MW-1	0.00005297	10	21	No	8	50	0.01	NP
Lead (mg/L)	MW-19	0	-1	-21	No	8	37.5	0.01	NP
Lead (mg/L)	MW-21	0	-7	-21	No	8	75	0.01	NP
Methoxychlor (ug/L)	MW-21	0.00136	11	21	No	8	87.5	0.01	NP
Nickel (mg/L)	MW-1	0	8	21	No	8	62.5	0.01	NP
Nickel (mg/L)	MW-19	-0.0006728	-9	-21	No	8	25	0.01	NP
Nickel (mg/L)	MW-21	-0.002716	-12	-21	No	8	0	0.01	NP
Selenium (mg/L)	MW-20	-0.0001528	-4	-21	No	8	0	0.01	NP
Thallium (mg/L)	MW-1	0	-7	-21	No	8	75	0.01	NP
Toluene (ug/L)	MW-1	0	3	21	No	8	75	0.01	NP
Zinc (mg/L)	MW-1	0.0002641	10	21	No	8	62.5	0.01	NP
Zinc (mg/L)	MW-19	-0.001682	-12	-21	No	8	50	0.01	NP



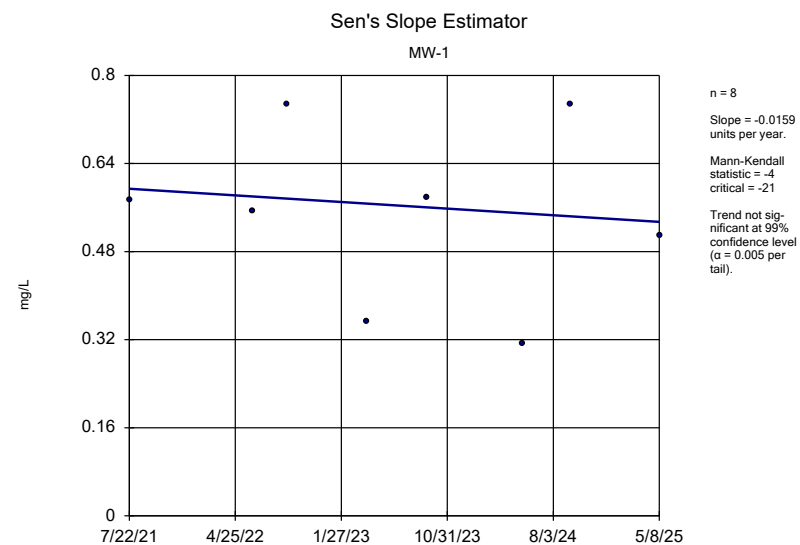
Constituent: 1,1-Dichloroethane Analysis Run 7/28/2025 12:40 PM View: 2025_SSN-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLFN-2025_SSN-AM



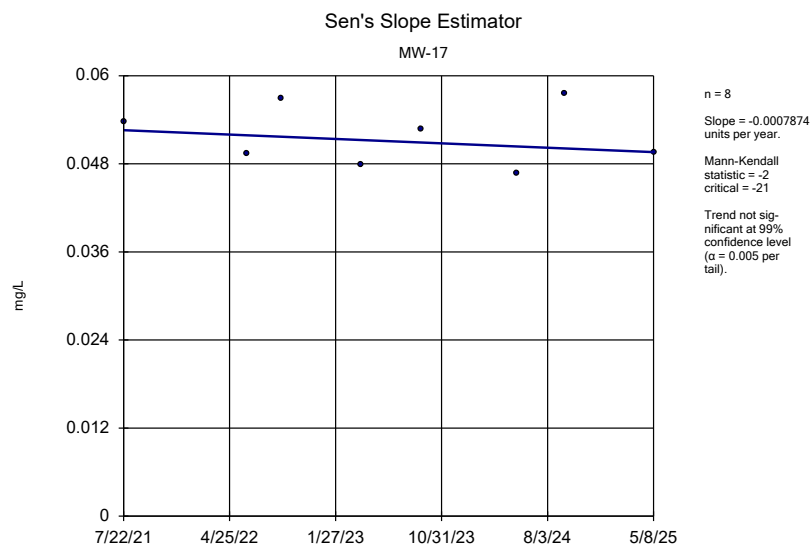
Constituent: Arsenic Analysis Run 7/28/2025 12:40 PM View: 2025_SSN-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLFN-2025_SSN-AM



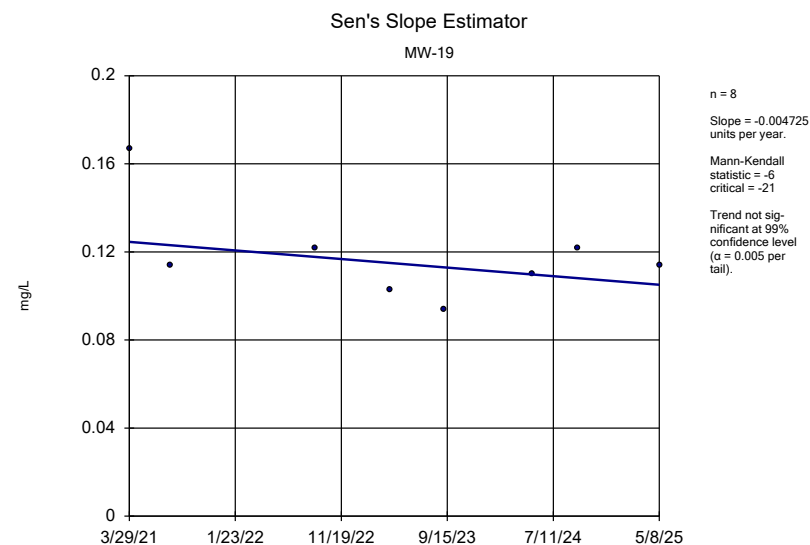
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Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLFN-2025_SSN-AM



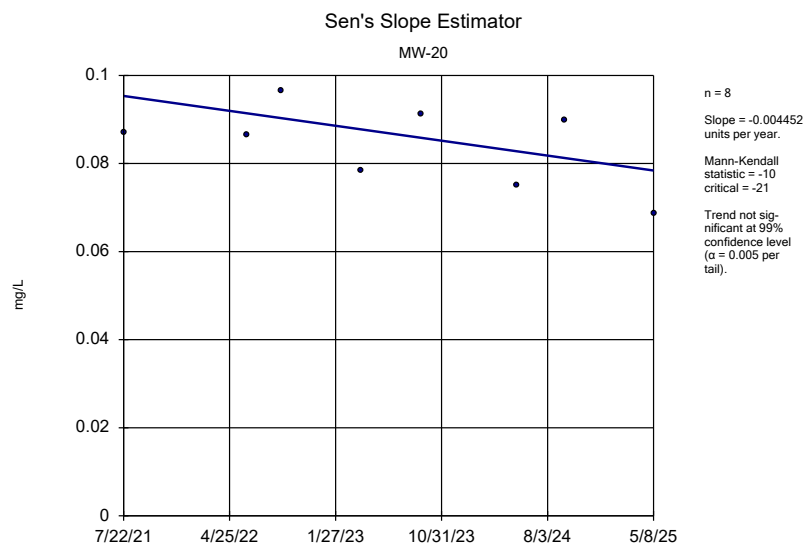
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Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLFN-2025_SSN-AM



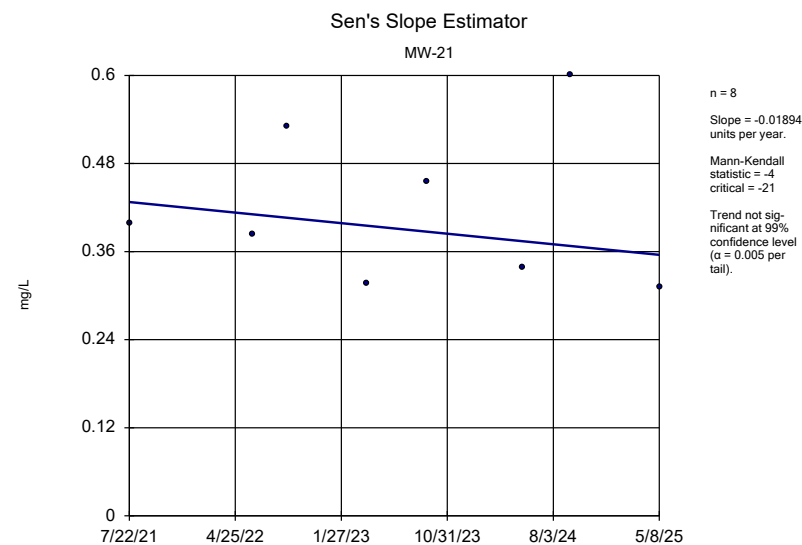
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Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLFN-2025_SSN-AM



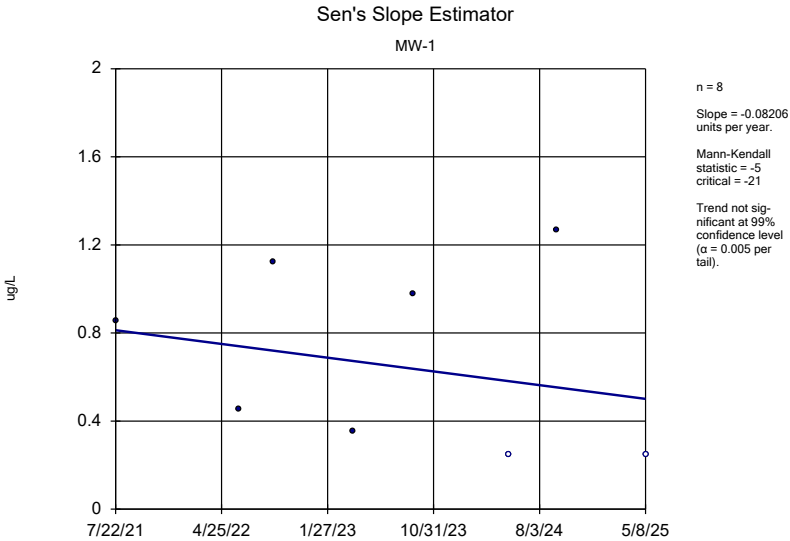
Constituent: Barium Analysis Run 7/28/2025 12:40 PM View: 2025_SSN-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLFN-2025_SSN-AM



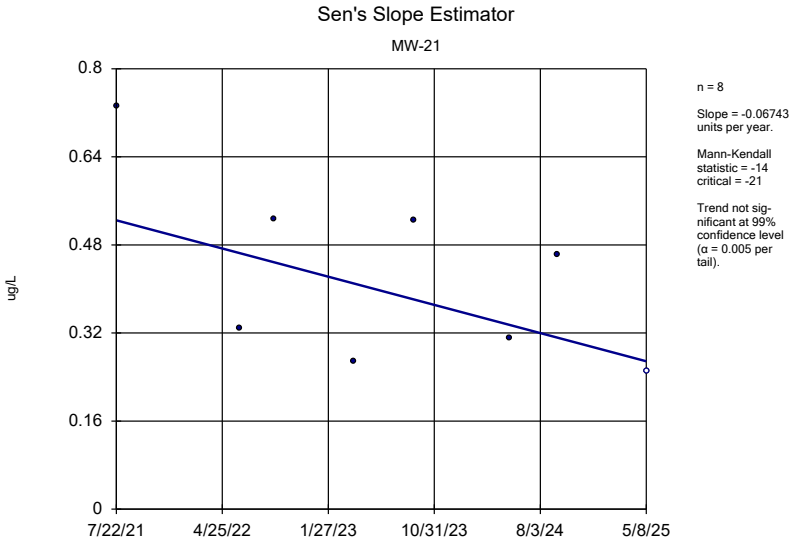
Constituent: Barium Analysis Run 7/28/2025 12:40 PM View: 2025_SSN-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLFN-2025_SSN-AM



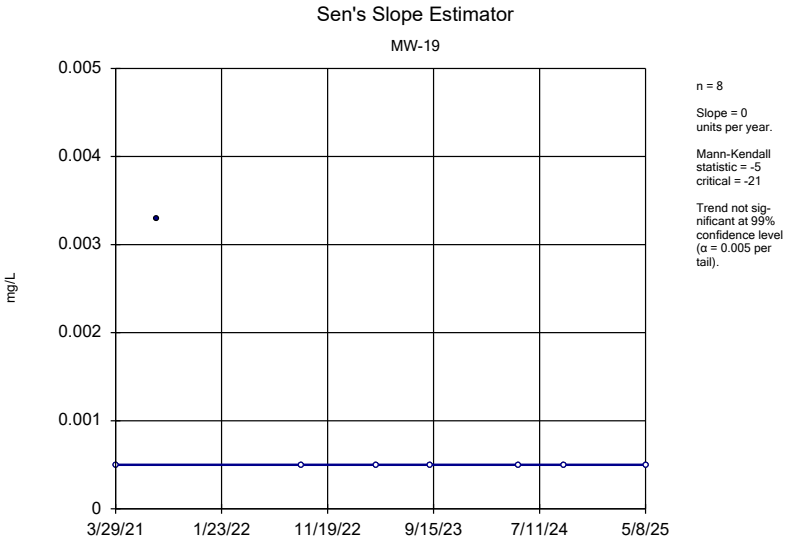
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Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLFN-2025_SSN-AM



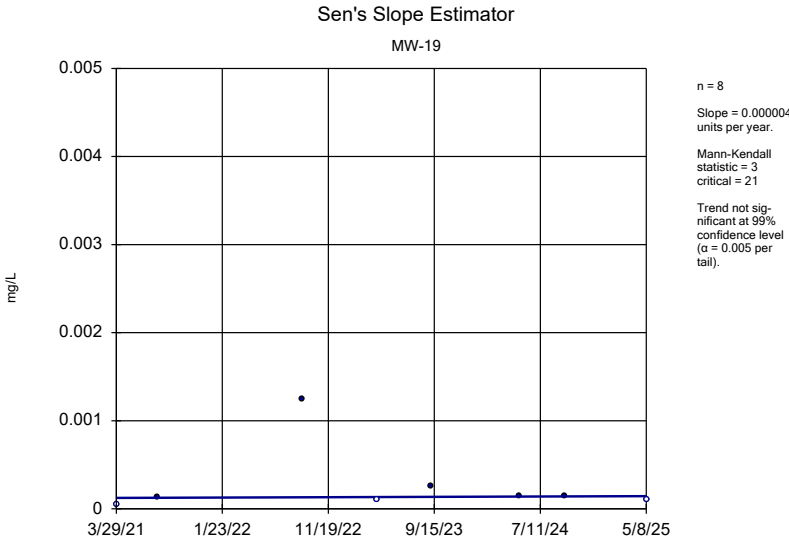
Constituent: Benzene Analysis Run 7/28/2025 12:40 PM View: 2025_SSN-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLFN-2025_SSN-AM



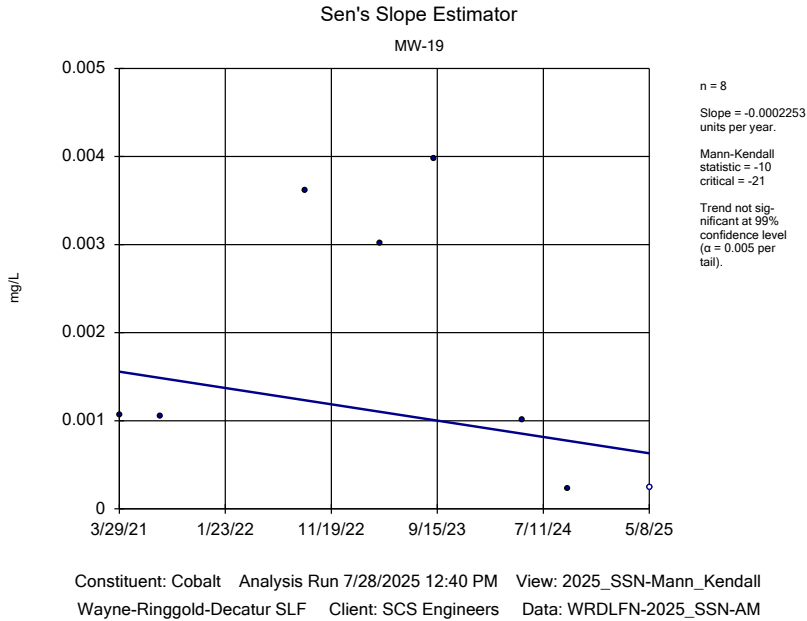
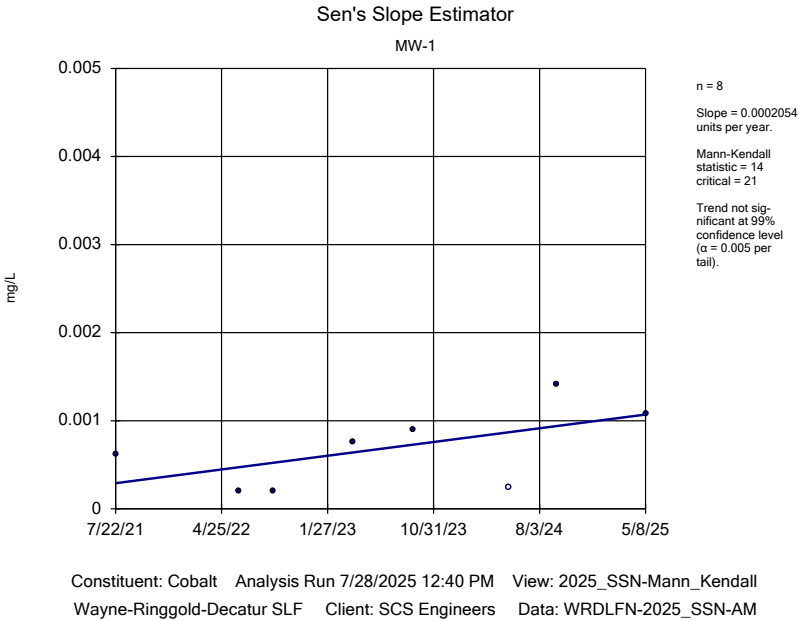
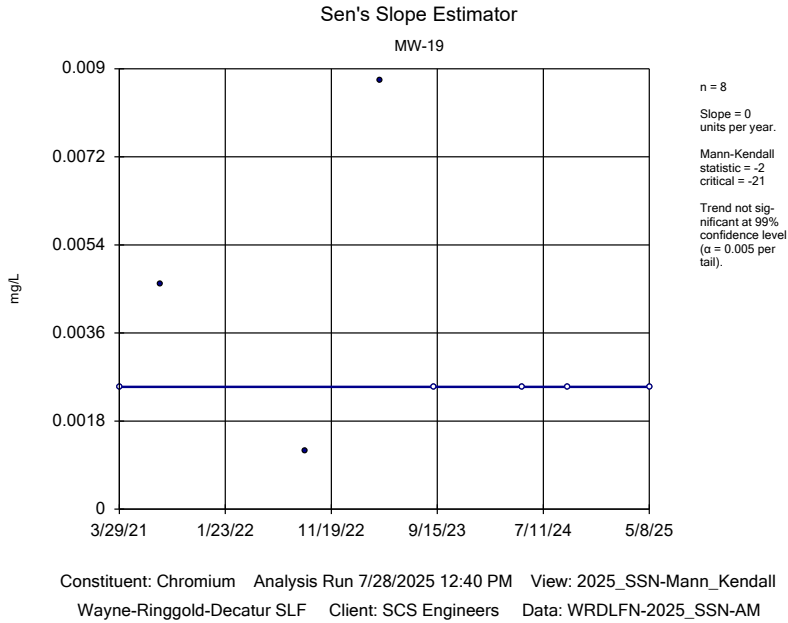
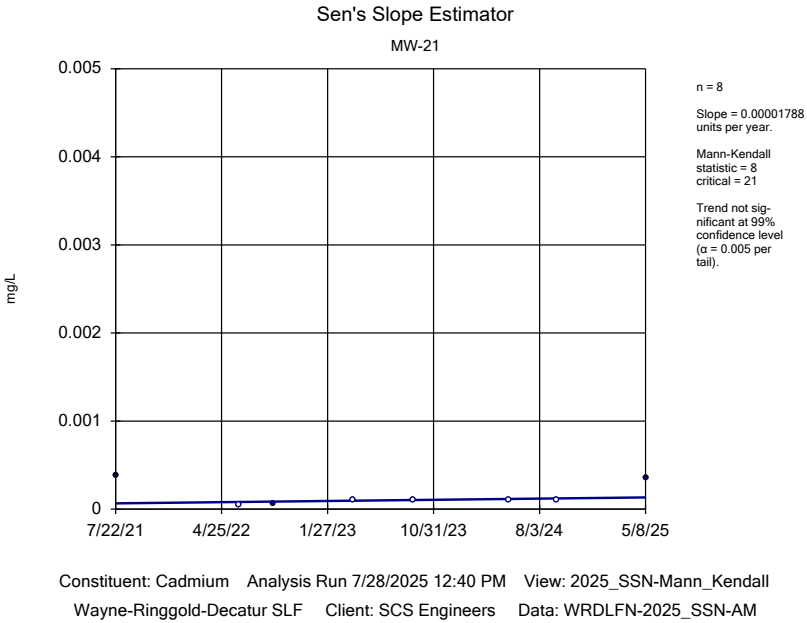
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Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLFN-2025_SSN-AM

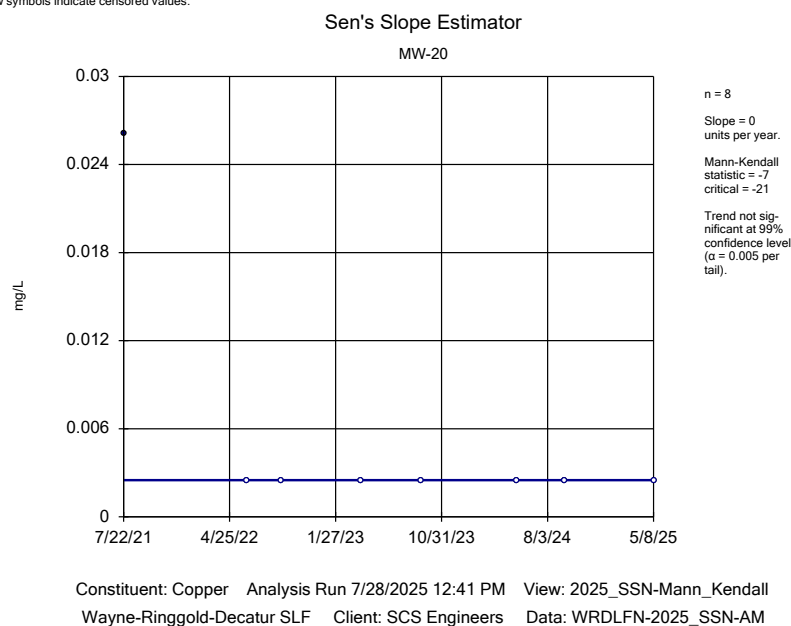
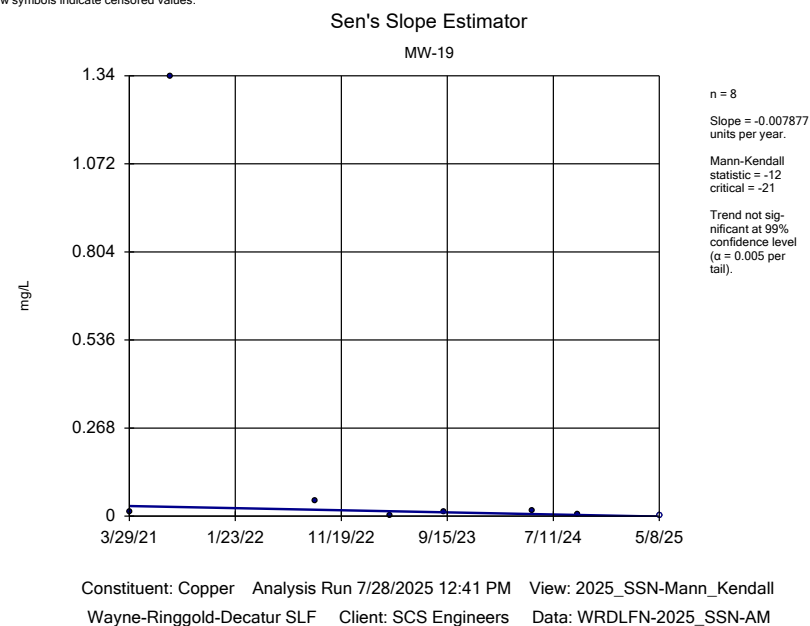
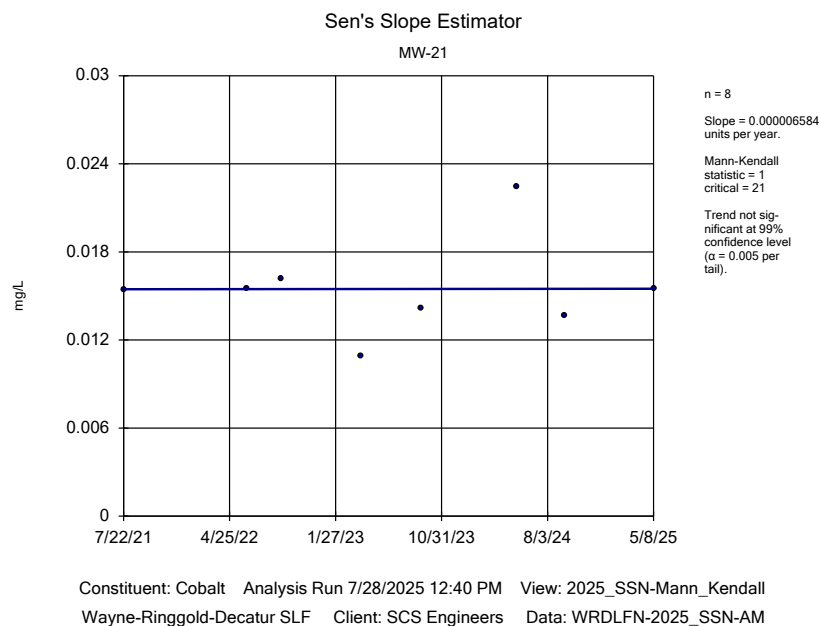


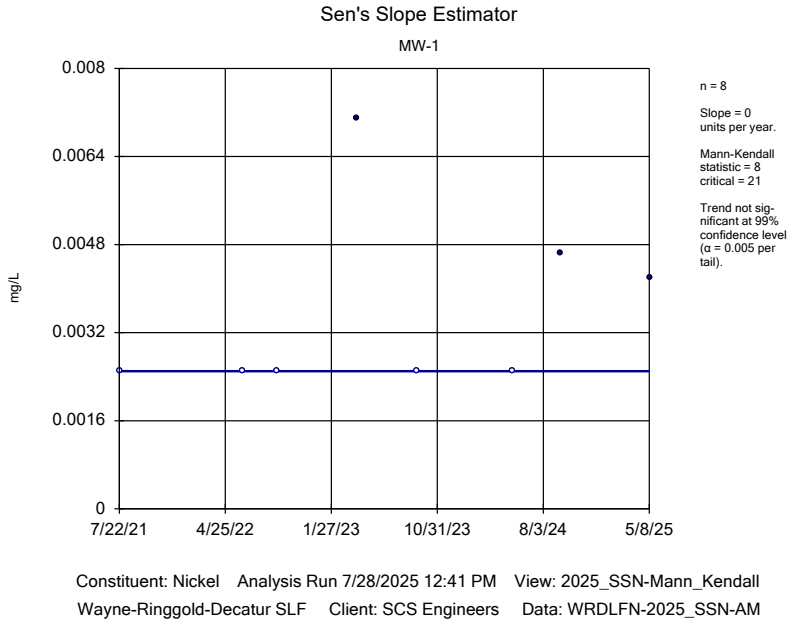
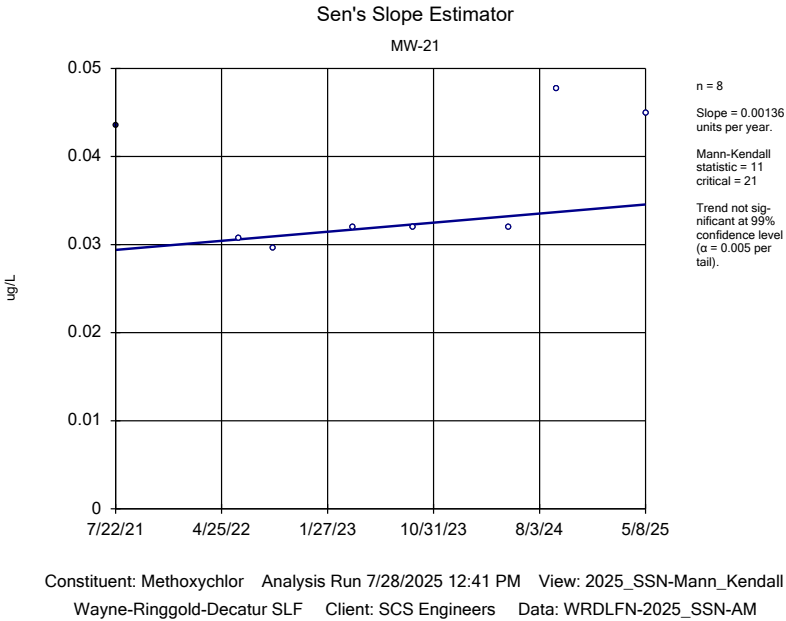
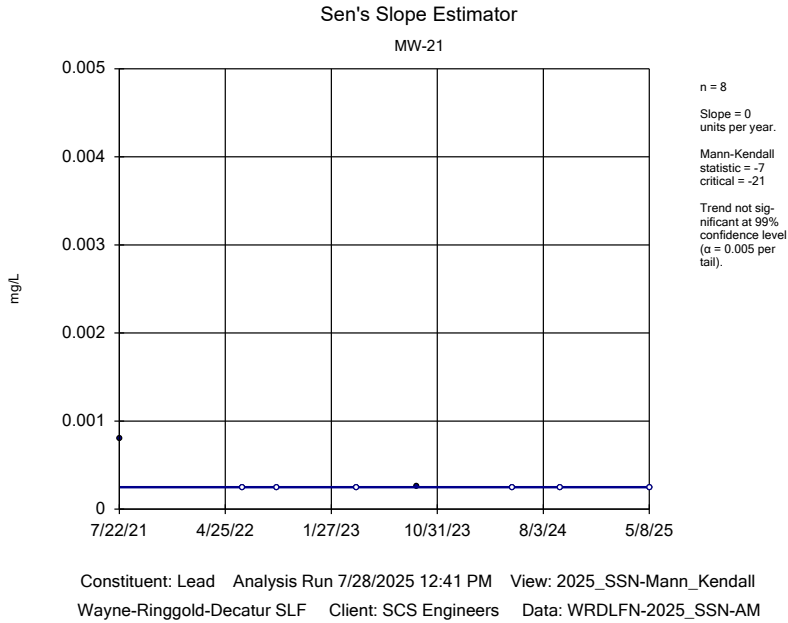
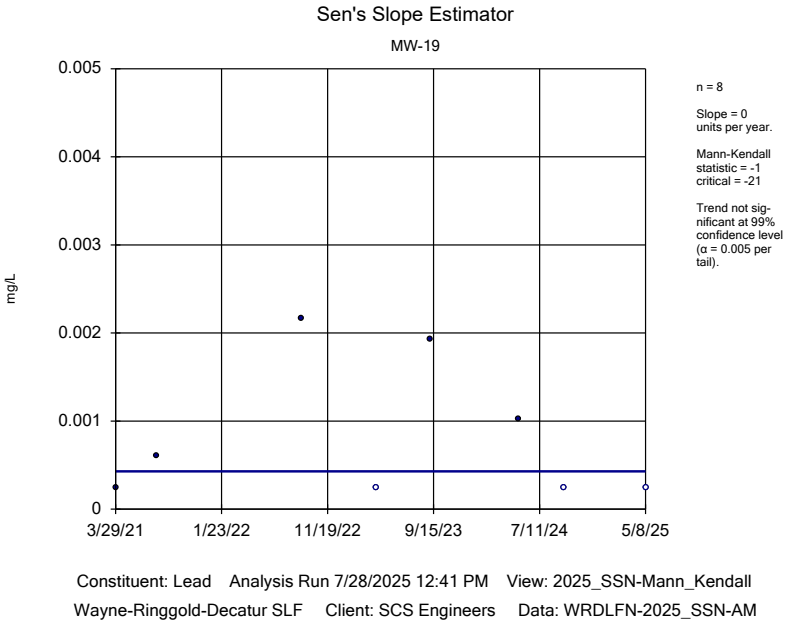
Constituent: Beryllium Analysis Run 7/28/2025 12:40 PM View: 2025_SSN-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLFN-2025_SSN-AM

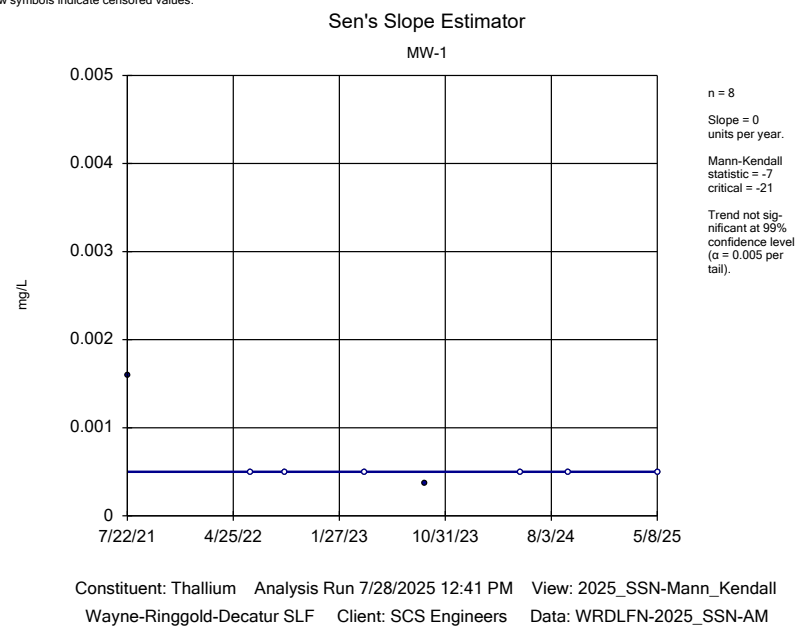
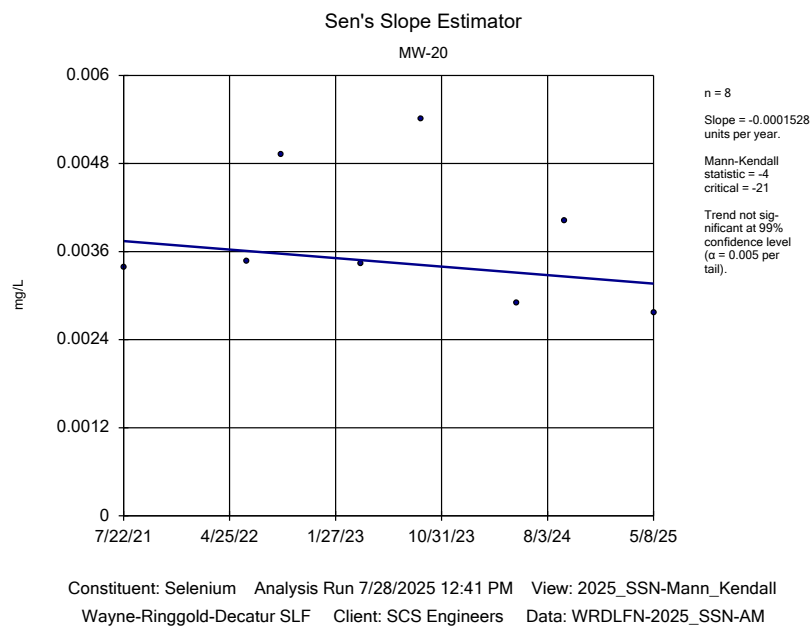
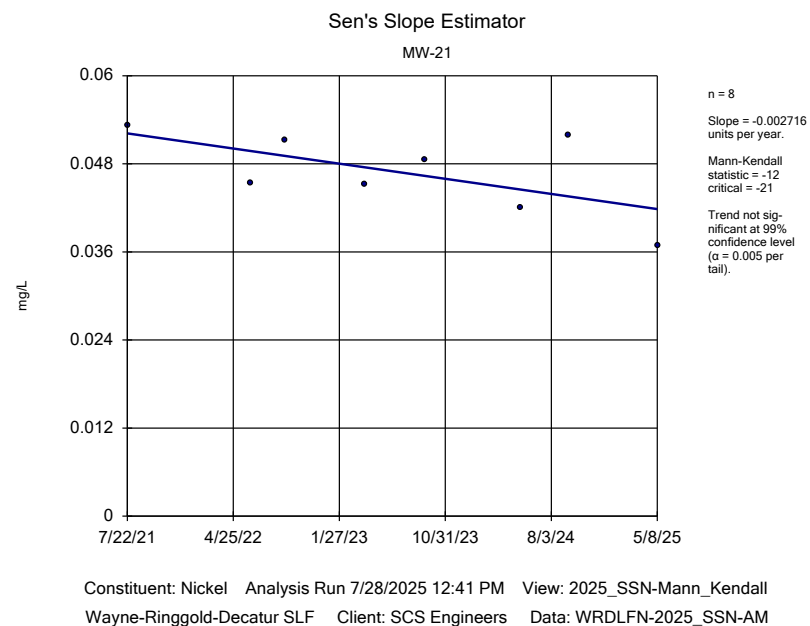
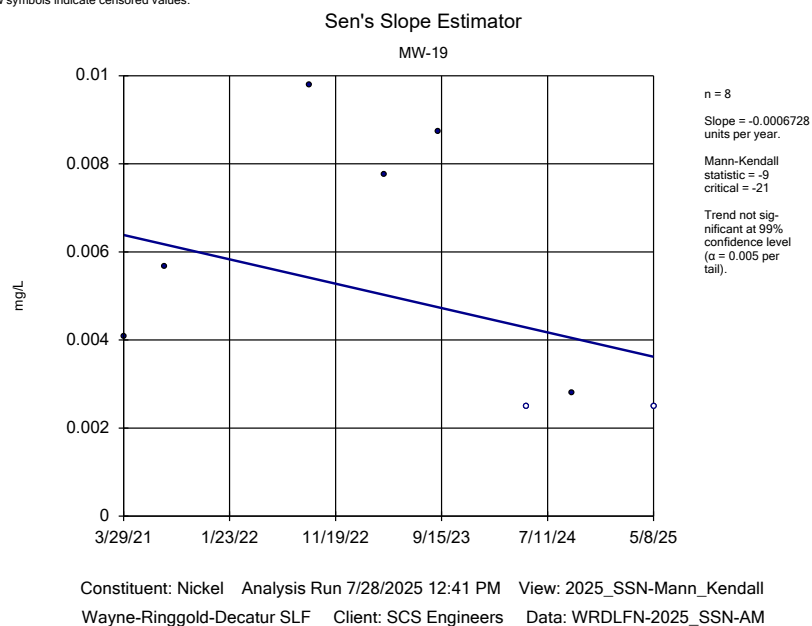


Constituent: Cadmium Analysis Run 7/28/2025 12:40 PM View: 2025_SSN-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLFN-2025_SSN-AM



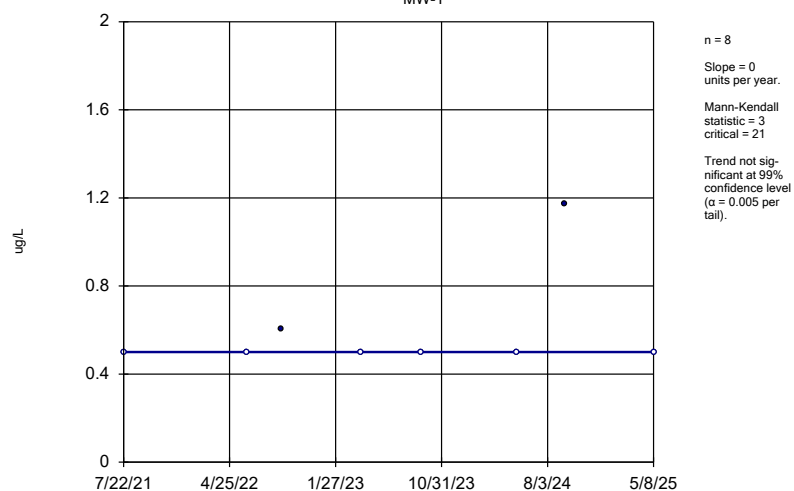






Sen's Slope Estimator

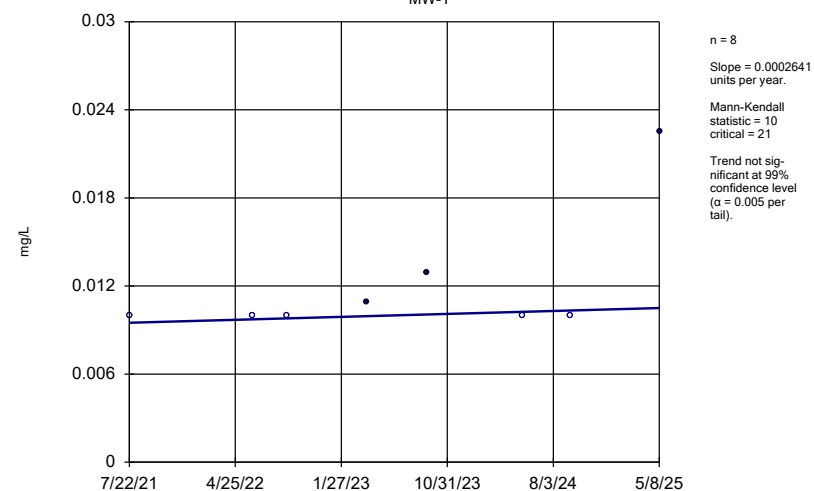
MW-1



Constituent: Toluene Analysis Run 7/28/2025 12:41 PM View: 2025_SSN-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLFN-2025_SSN-AM

Sen's Slope Estimator

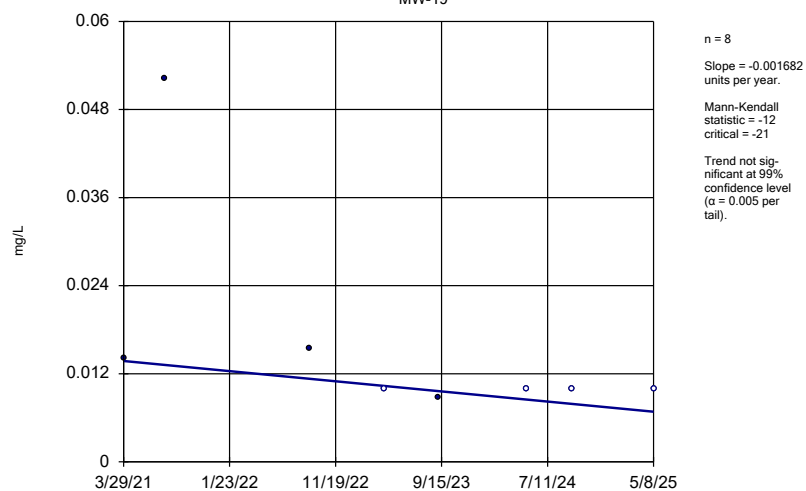
MW-1



Constituent: Zinc Analysis Run 7/28/2025 12:41 PM View: 2025_SSN-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLFN-2025_SSN-AM

Sen's Slope Estimator

MW-19



Constituent: Zinc Analysis Run 7/28/2025 12:41 PM View: 2025_SSN-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLFN-2025_SSN-AM



Attachment A-5

Confidence Intervals

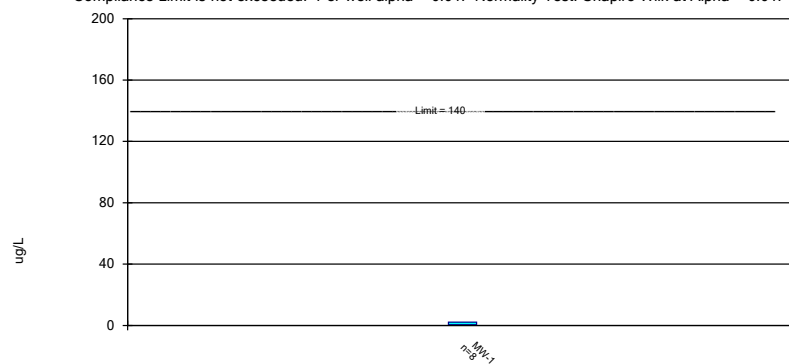
Confidence Interval

Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLFN-2025_SSN-AM Printed 7/28/2025, 1:24 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
1,1-Dichloroethane (ug/L)	MW-1	2.156	0.444	140	No	8	0	No	0.01	Param.
Arsenic (mg/L)	MW-1	0.005721	0.000172	0.01	No	8	0	No	0.01	Param.
Arsenic (mg/L)	MW-21	0.01186	0.002656	0.01	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-1	0.7151	0.3795	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-17	0.05608	0.04748	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-19	0.1414	0.09516	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-20	0.094	0.07433	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-21	0.5278	0.3059	2	No	8	0	No	0.01	Param.
Benzene (ug/L)	MW-1	1.097	0.3641	5	No	8	25	No	0.01	Param.
Benzene (ug/L)	MW-21	0.6011	0.2492	5	No	8	12.5	No	0.01	Param.
Beryllium (mg/L)	MW-19	0.00329	0.0005	0.004	No	8	87.5	No	0.004	NP (NDs)
Cadmium (mg/L)	MW-19	0.00124	0.00005	0.005	No	8	37.5	No	0.004	NP (normality)
Cadmium (mg/L)	MW-21	0.0003875	0.00005	0.005	No	8	62.5	No	0.004	NP (NDs)
Chromium (mg/L)	MW-19	0.00876	0.00118	0.1	No	8	62.5	No	0.004	NP (NDs)
Cobalt (mg/L)	MW-1	0.001152	0.0002028	0.01105	No	8	12.5	No	0.01	Param.
Cobalt (mg/L)	MW-19	0.003384	0.0001673	0.01105	No	8	12.5	No	0.01	Param.
Cobalt (mg/L)	MW-21	0.01893	0.01203	0.01105	Yes	8	0	No	0.01	Param.
Copper (mg/L)	MW-19	1.34	0.0025	1.3	No	8	12.5	No	0.004	NP (normality)
Copper (mg/L)	MW-20	0.0261	0.0025	1.3	No	8	87.5	No	0.004	NP (NDs)
Lead (mg/L)	MW-1	0.0031	0.00025	0.015	No	8	50	No	0.004	NP (normality)
Lead (mg/L)	MW-19	0.001628	0.00005102	0.015	No	8	37.5	No	0.01	Param.
Lead (mg/L)	MW-21	0.000802	0.00025	0.015	No	8	75	No	0.004	NP (NDs)
Methoxychlor (ug/L)	MW-21	0.0477	0.02965	40	No	8	87.5	No	0.004	NP (NDs)
Nickel (mg/L)	MW-1	0.00709	0.0025	0.1	No	8	62.5	No	0.004	NP (NDs)
Nickel (mg/L)	MW-19	0.008431	0.003004	0.1	No	8	25	No	0.01	Param.
Nickel (mg/L)	MW-21	0.05269	0.04089	0.1	No	8	0	No	0.01	Param.
Selenium (mg/L)	MW-20	0.004784	0.002789	0.05	No	8	0	No	0.01	Param.
Thallium (mg/L)	MW-1	0.00159	0.000375	0.002	No	8	75	No	0.004	NP (NDs)
Toluene (ug/L)	MW-1	1.17	0.5	1000	No	8	75	No	0.004	NP (NDs)
Zinc (mg/L)	MW-1	0.0225	0.01	2	No	8	62.5	No	0.004	NP (NDs)
Zinc (mg/L)	MW-19	0.0523	0.00881	2	No	8	50	No	0.004	NP (normality)

Parametric Confidence Interval

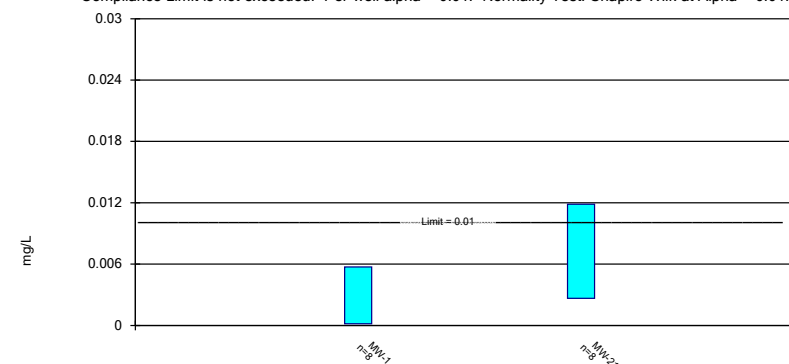
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: 1,1-Dichloroethane Analysis Run 7/28/2025 1:20 PM View: 2025_SSN-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLFN-2025_SSN-AM

Parametric Confidence Interval

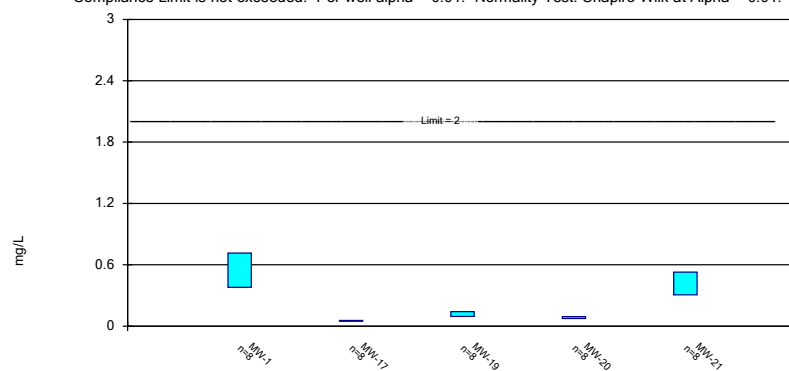
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Arsenic Analysis Run 7/28/2025 1:20 PM View: 2025_SSN-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLFN-2025_SSN-AM

Parametric Confidence Interval

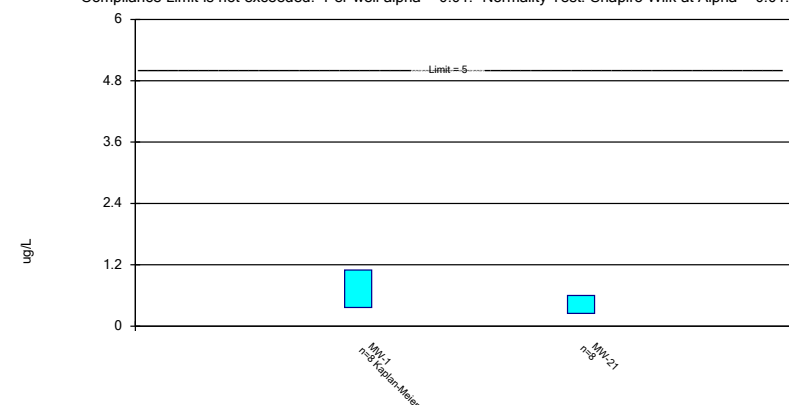
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



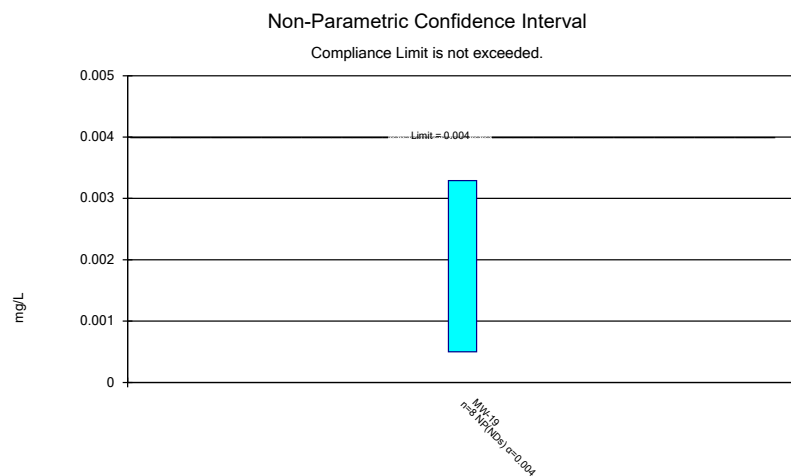
Constituent: Barium Analysis Run 7/28/2025 1:20 PM View: 2025_SSN-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLFN-2025_SSN-AM

Parametric Confidence Interval

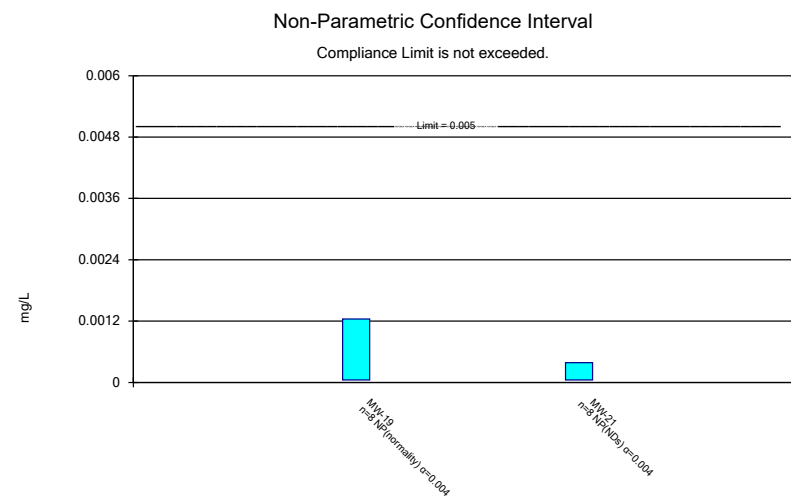
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



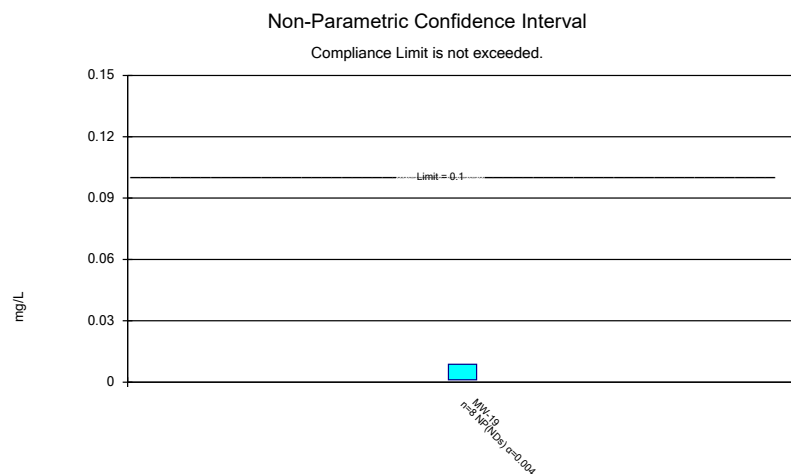
Constituent: Benzene Analysis Run 7/28/2025 1:20 PM View: 2025_SSN-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLFN-2025_SSN-AM



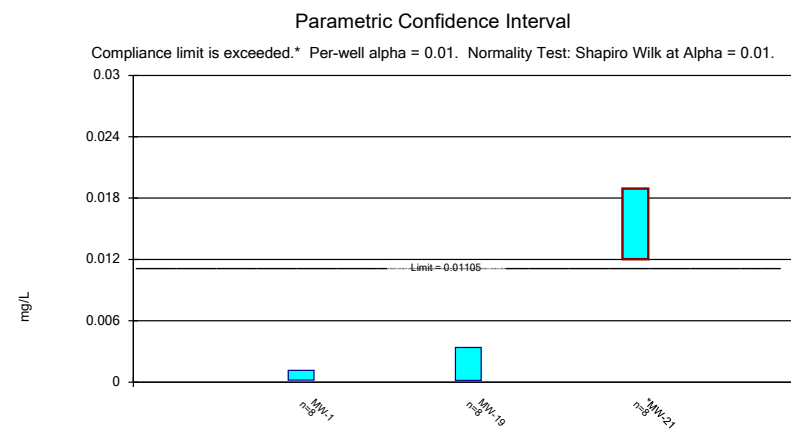
Constituent: Beryllium Analysis Run 7/28/2025 1:20 PM View: 2025_SSN-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLFN-2025_SSN-AM



Constituent: Cadmium Analysis Run 7/28/2025 1:20 PM View: 2025_SSN-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLFN-2025_SSN-AM



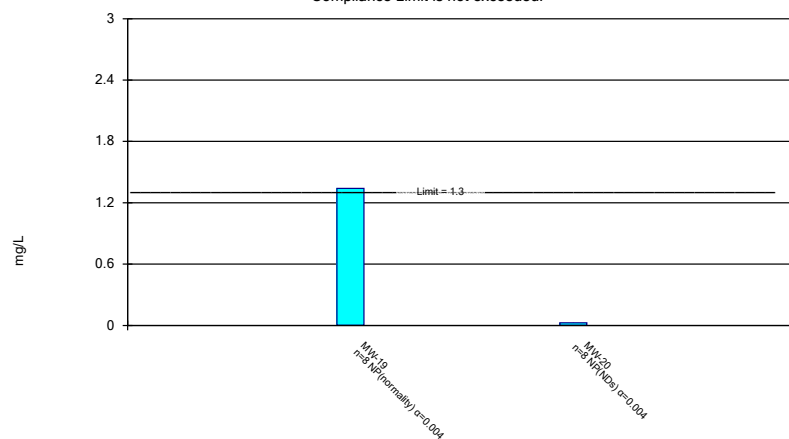
Constituent: Chromium Analysis Run 7/28/2025 1:20 PM View: 2025_SSN-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLFN-2025_SSN-AM



Constituent: Cobalt Analysis Run 7/28/2025 1:20 PM View: 2025_SSN-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLFN-2025_SSN-AM

Non-Parametric Confidence Interval

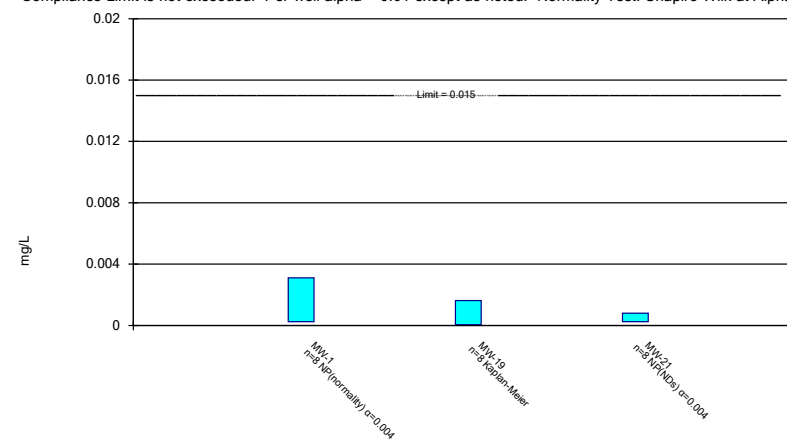
Compliance Limit is not exceeded.



Constituent: Copper Analysis Run 7/28/2025 1:20 PM View: 2025_SSN-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLFN-2025_SSN-AM

Parametric and Non-Parametric (NP) Confidence Interval

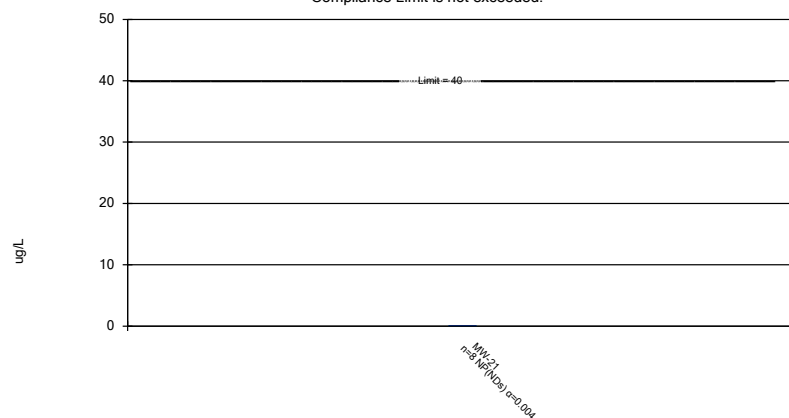
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Lead Analysis Run 7/28/2025 1:20 PM View: 2025_SSN-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLFN-2025_SSN-AM

Non-Parametric Confidence Interval

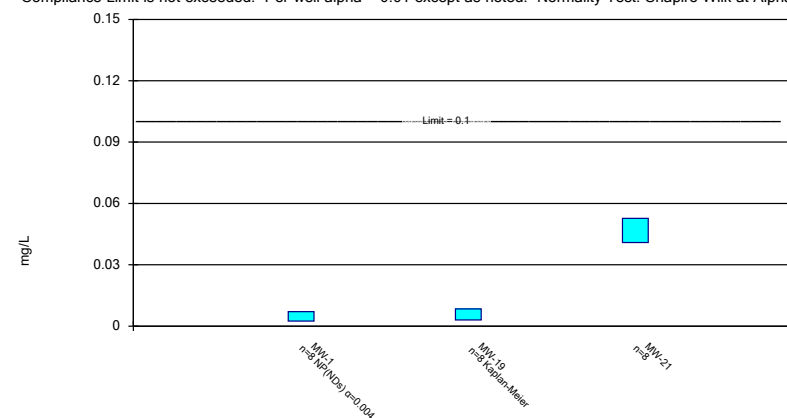
Compliance Limit is not exceeded.



Constituent: Methoxychlor Analysis Run 7/28/2025 1:20 PM View: 2025_SSN-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLFN-2025_SSN-AM

Parametric and Non-Parametric (NP) Confidence Interval

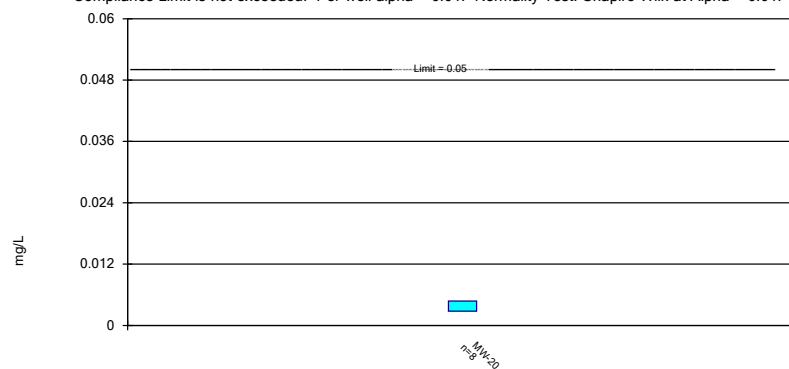
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Nickel Analysis Run 7/28/2025 1:20 PM View: 2025_SSN-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLFN-2025_SSN-AM

Parametric Confidence Interval

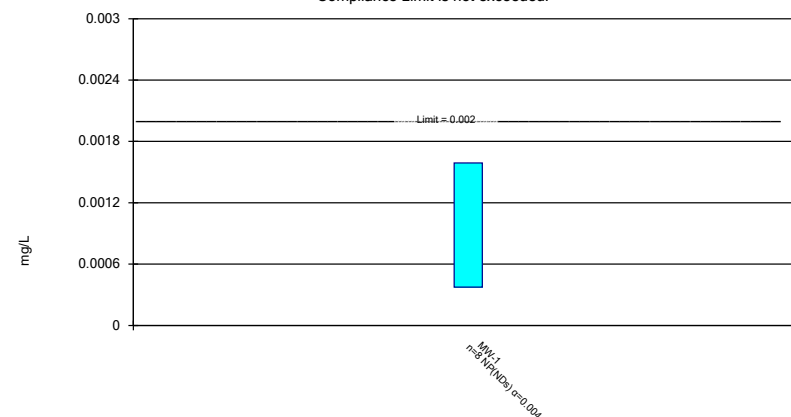
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Selenium Analysis Run 7/28/2025 1:20 PM View: 2025_SSN-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLFN-2025_SSN-AM

Non-Parametric Confidence Interval

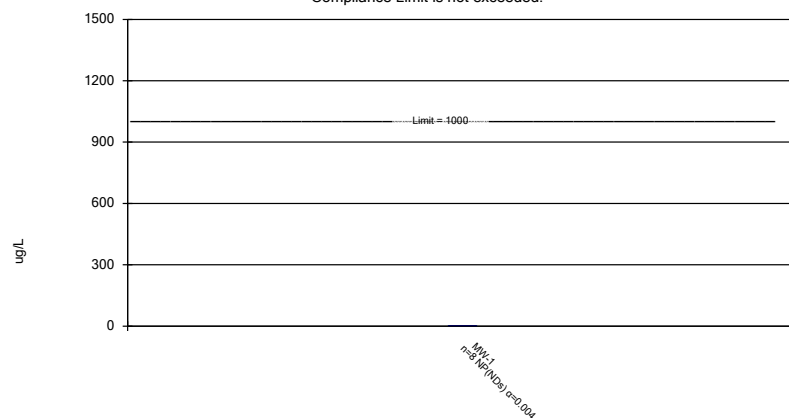
Compliance Limit is not exceeded.



Constituent: Thallium Analysis Run 7/28/2025 1:20 PM View: 2025_SSN-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLFN-2025_SSN-AM

Non-Parametric Confidence Interval

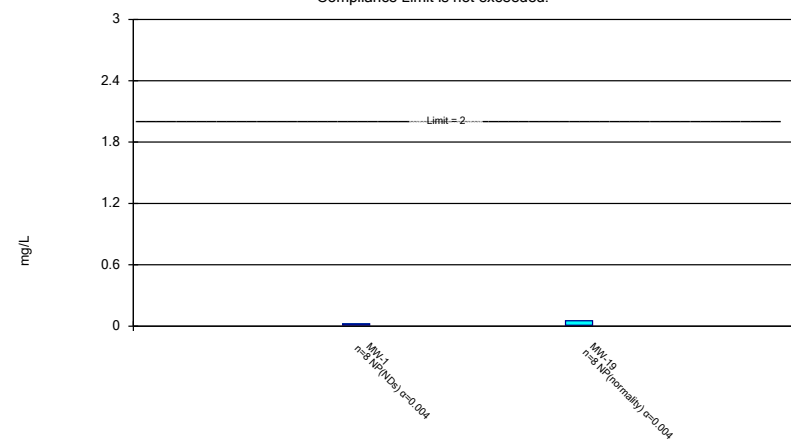
Compliance Limit is not exceeded.



Constituent: Toluene Analysis Run 7/28/2025 1:20 PM View: 2025_SSN-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLFN-2025_SSN-AM

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Zinc Analysis Run 7/28/2025 1:20 PM View: 2025_SSN-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLFN-2025_SSN-AM

Attachment B

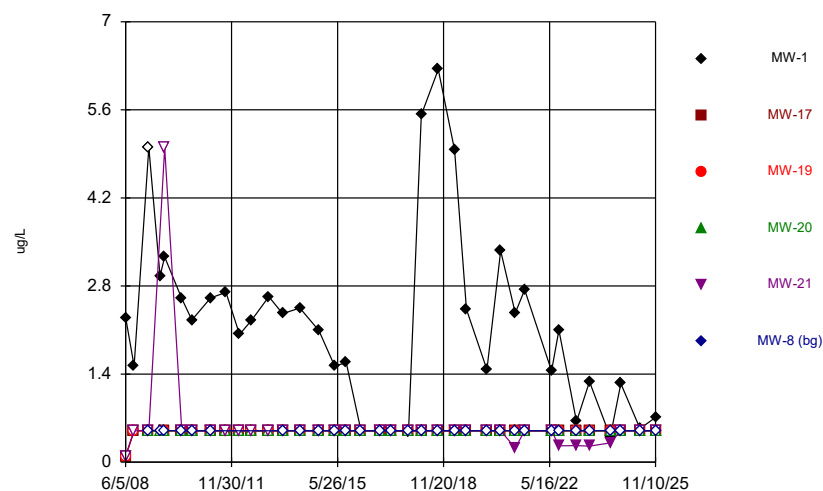
2025 2nd Semi Annual Statistical Output



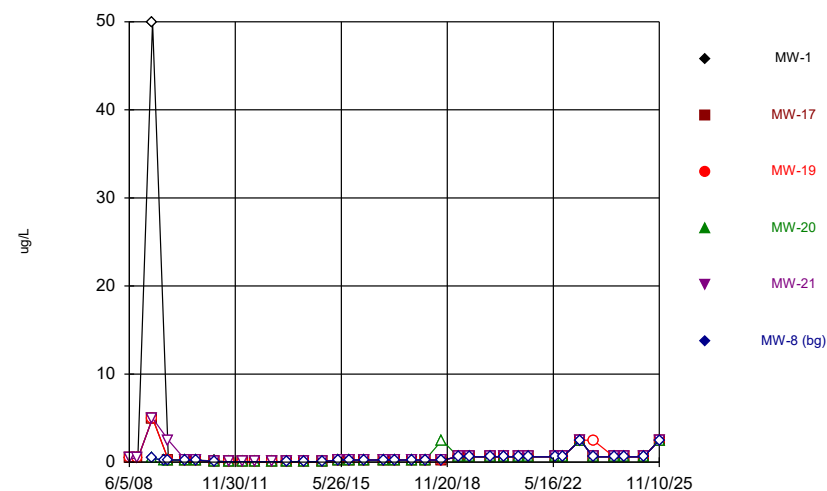
Attachment B-1

Time Series Graphs

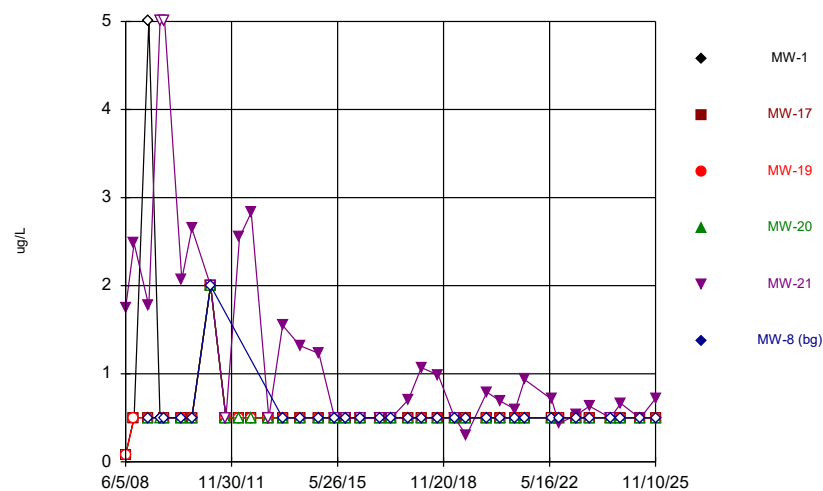
Time Series



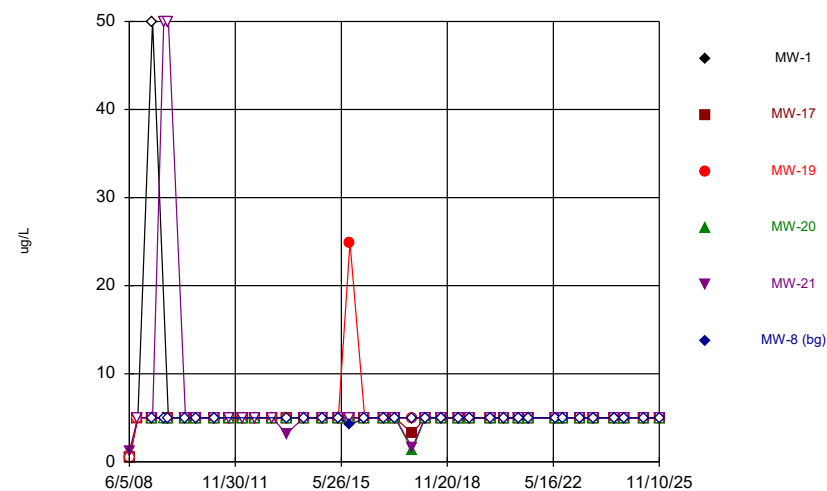
Time Series



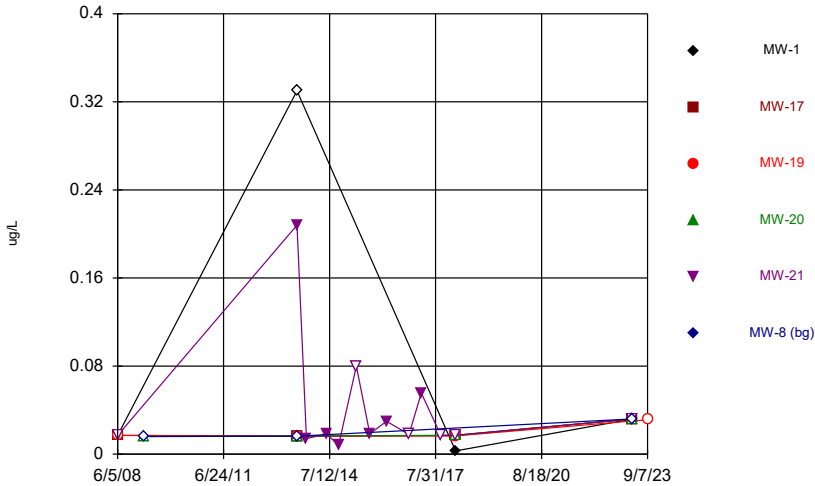
Time Series



Time Series

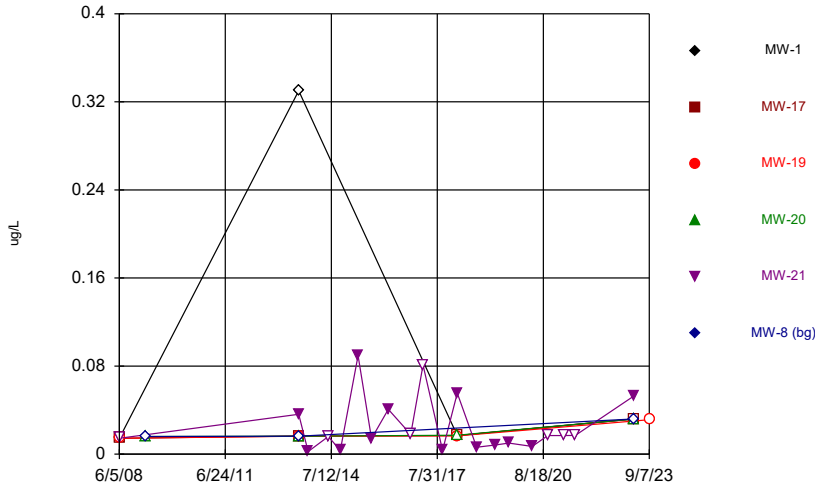


Time Series



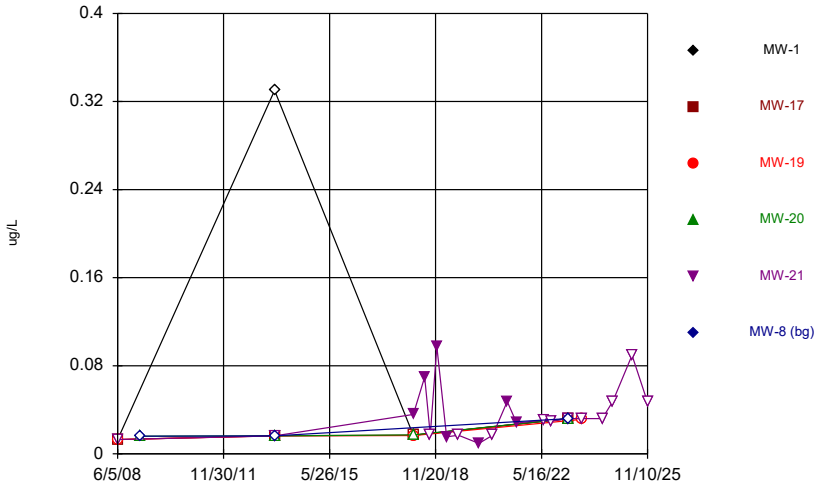
Constituent: 4,4'-DDD Analysis Run 12/15/2025 1:18 PM View: 2025_AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



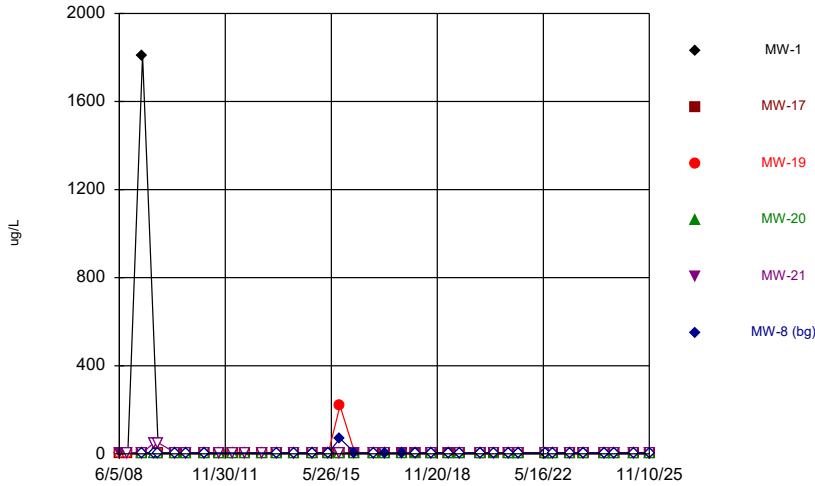
Constituent: 4,4'-DDE Analysis Run 12/15/2025 1:18 PM View: 2025_AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



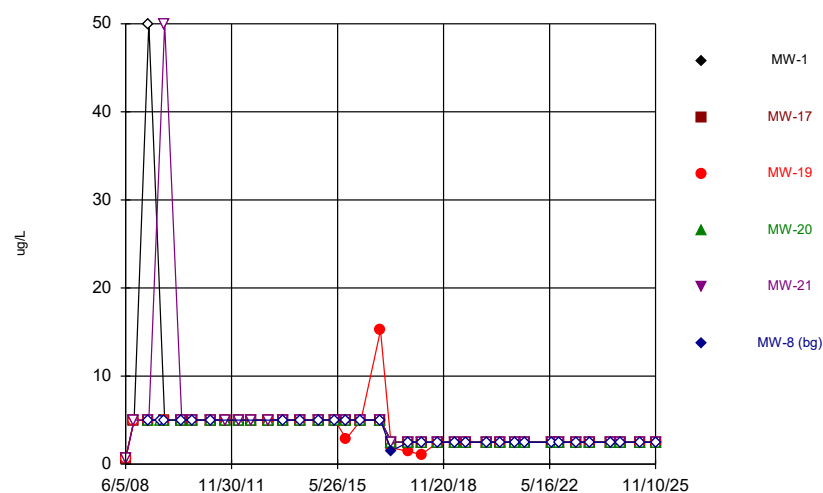
Constituent: 4,4'-DDT Analysis Run 12/15/2025 1:18 PM View: 2025_AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



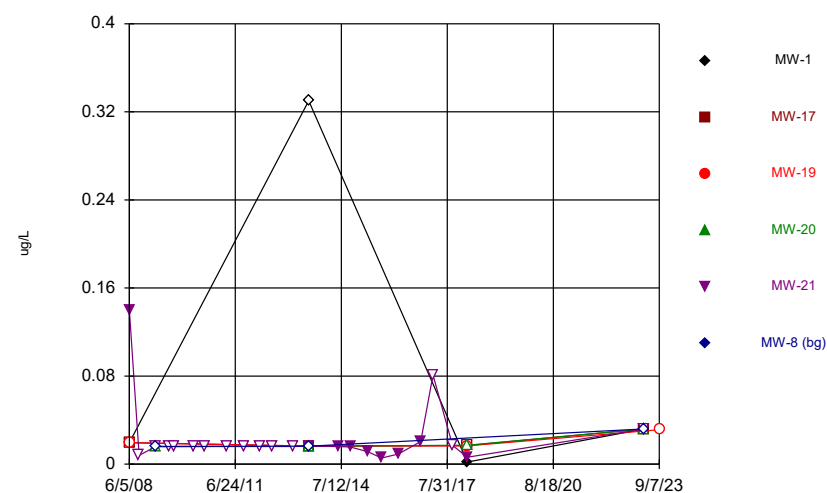
Constituent: Acetone Analysis Run 12/15/2025 1:18 PM View: 2025_AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



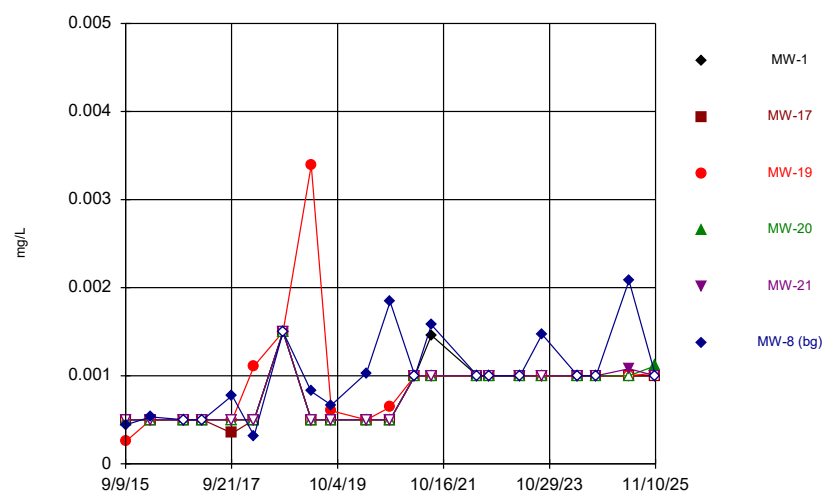
Constituent: Acrylonitrile Analysis Run 12/15/2025 1:18 PM View: 2025_AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



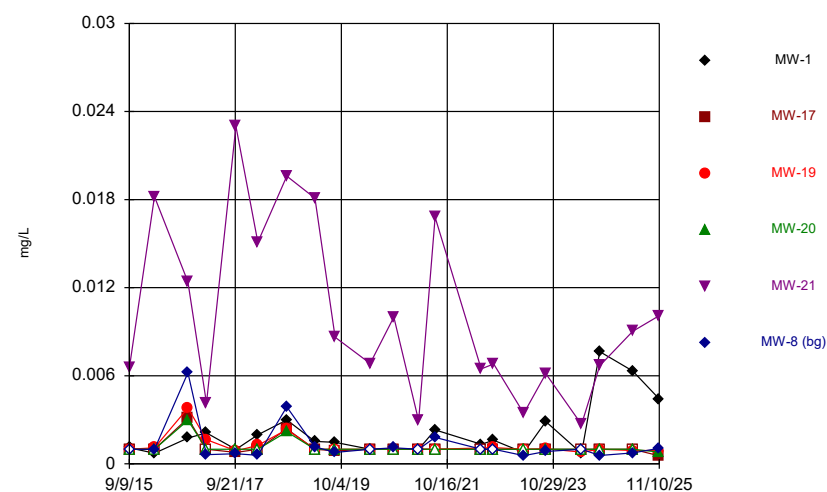
Constituent: alpha-BHC Analysis Run 12/15/2025 1:18 PM View: 2025_AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



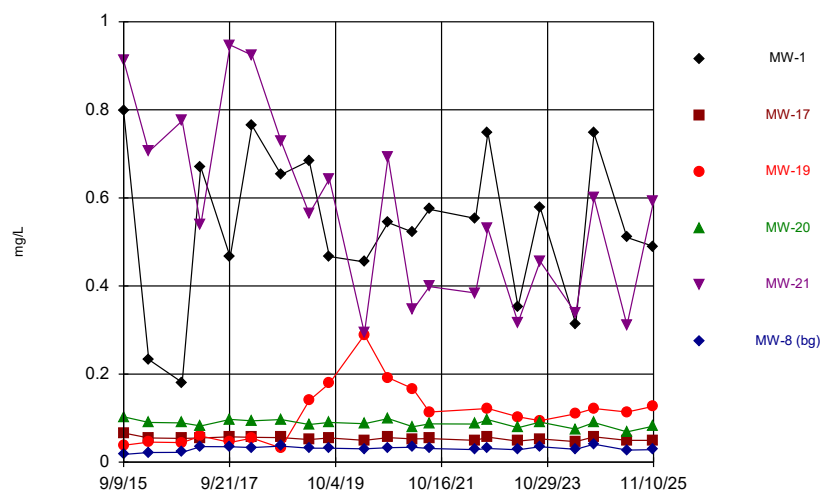
Constituent: Antimony Analysis Run 12/15/2025 1:18 PM View: 2025_AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series

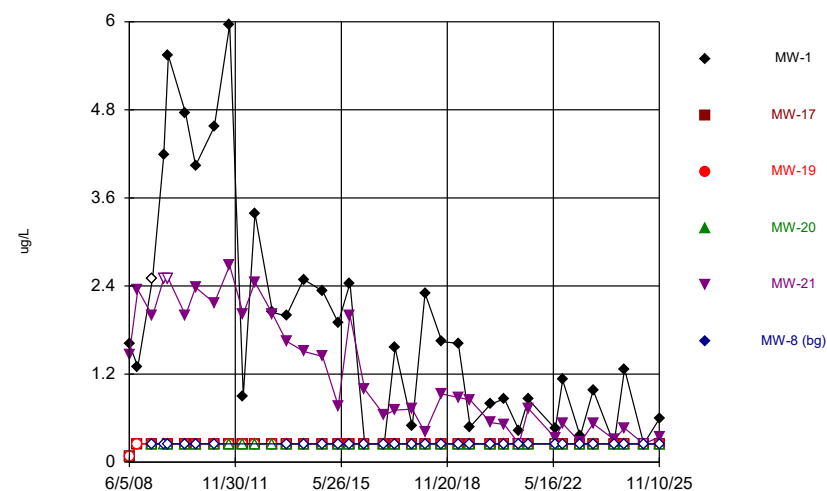


Constituent: Arsenic Analysis Run 12/15/2025 1:18 PM View: 2025_AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

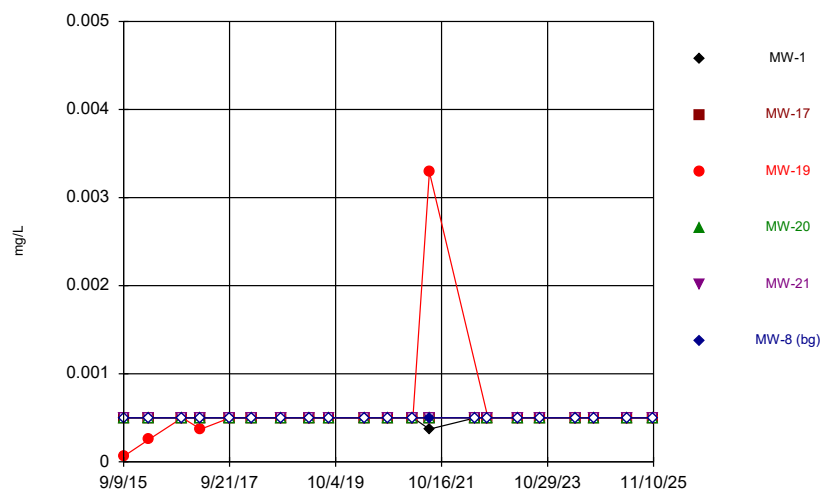
Time Series



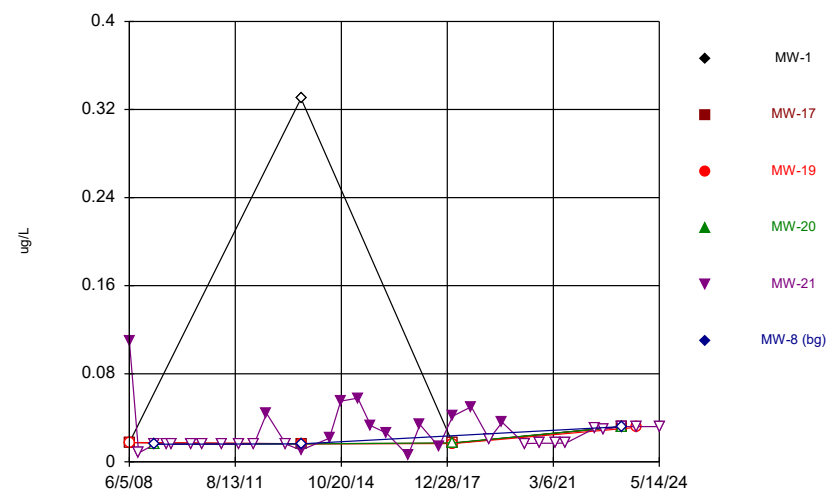
Time Series



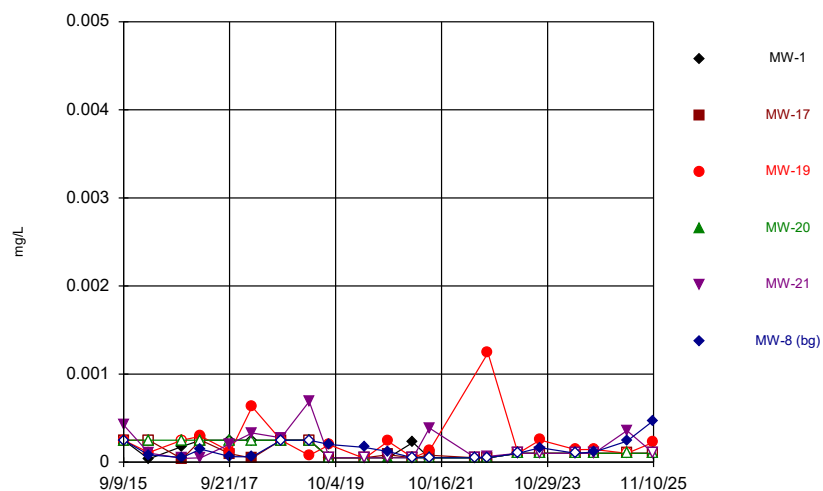
Time Series



Time Series

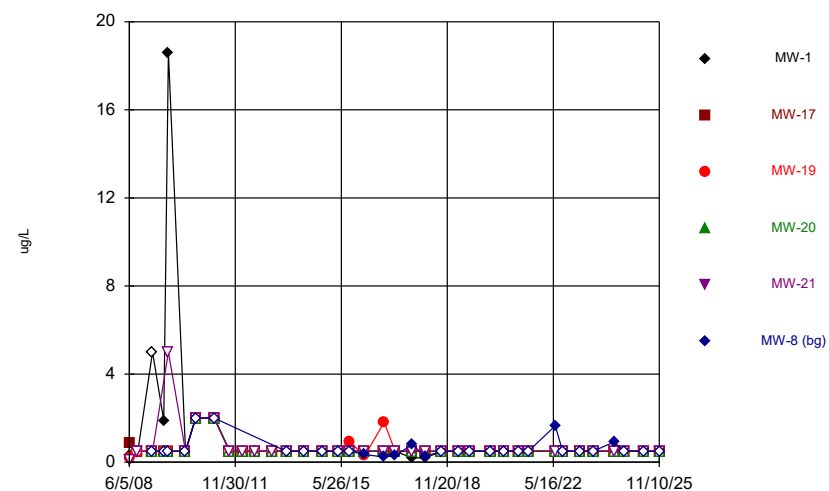


Time Series



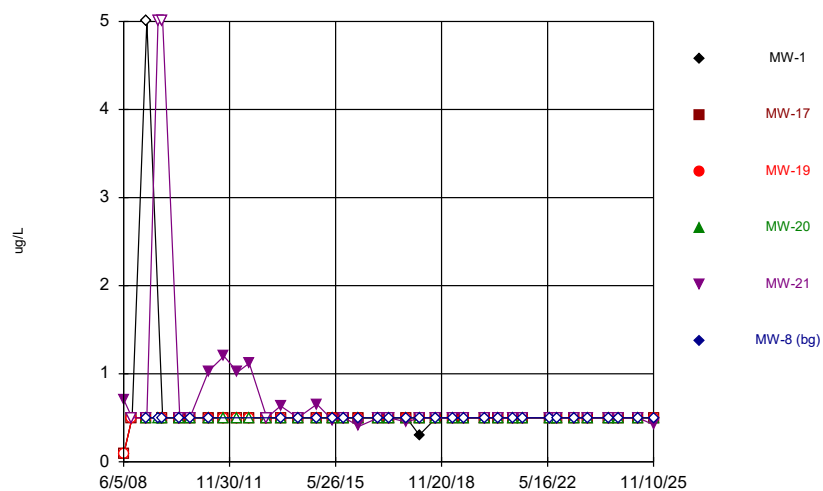
Constituent: Cadmium Analysis Run 12/15/2025 1:19 PM View: 2025_AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



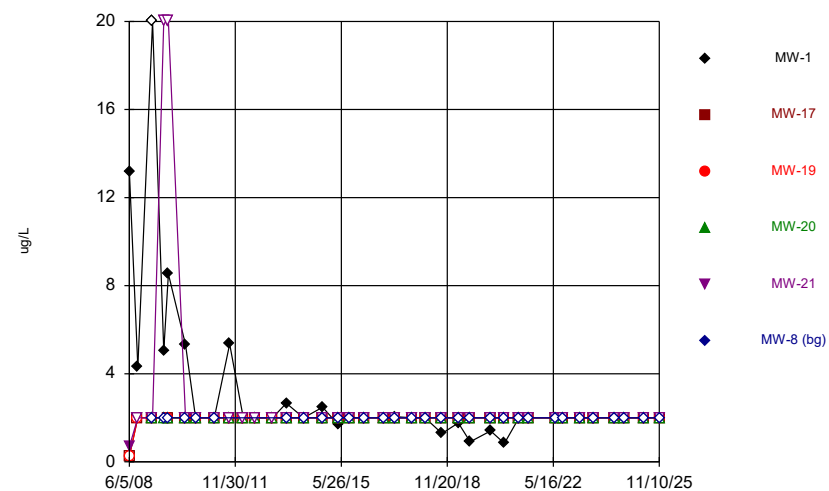
Constituent: Carbon disulfide Analysis Run 12/15/2025 1:19 PM View: 2025_AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



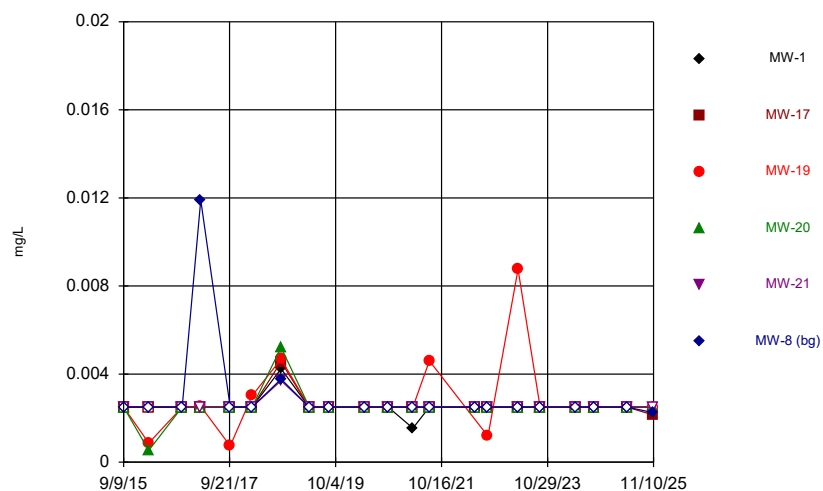
Constituent: Chlorobenzene Analysis Run 12/15/2025 1:19 PM View: 2025_AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series

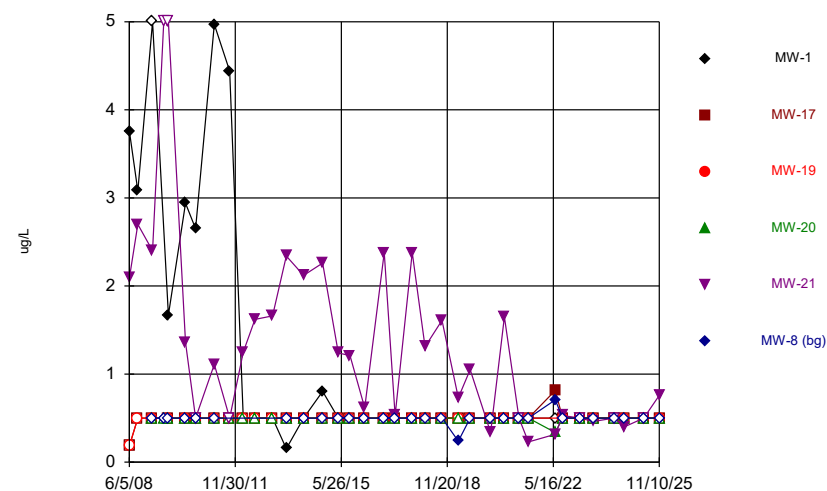


Constituent: Chloroethane Analysis Run 12/15/2025 1:19 PM View: 2025_AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

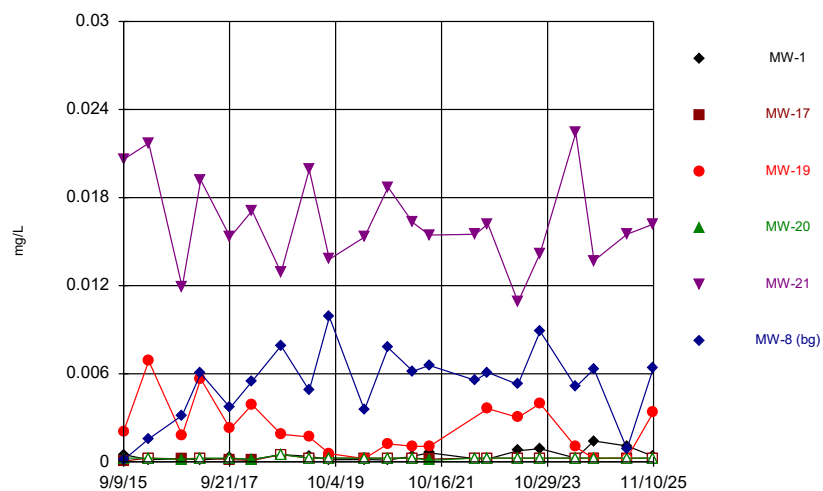
Time Series



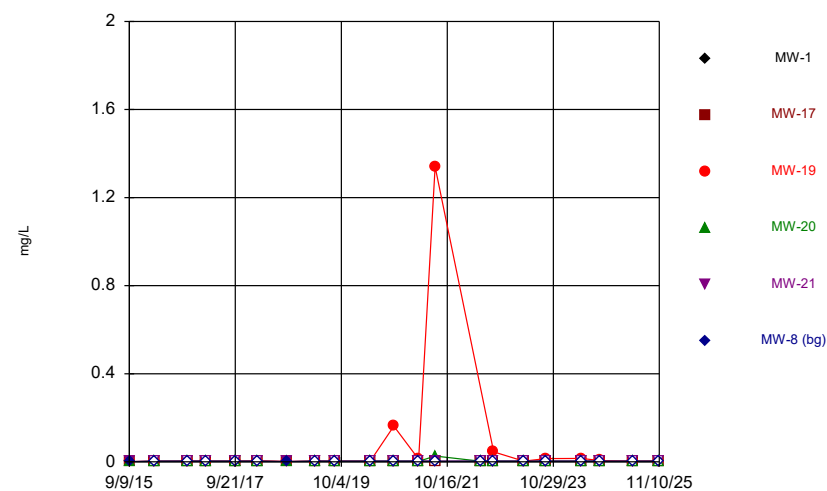
Time Series



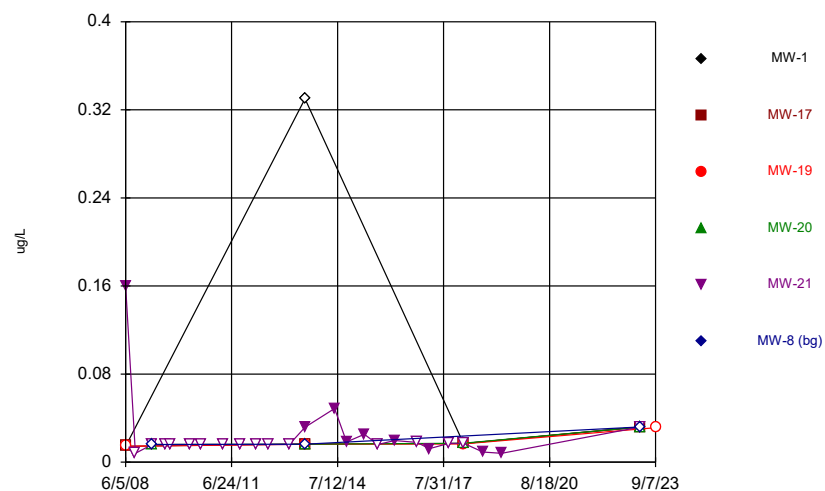
Time Series



Time Series

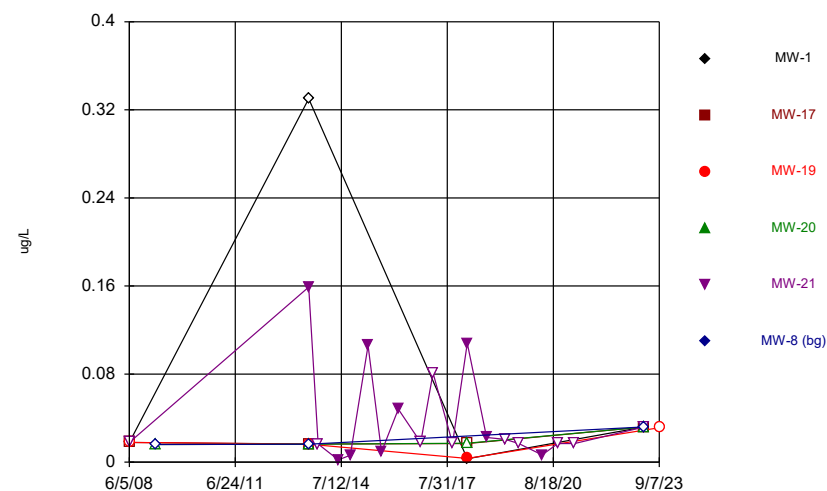


Time Series



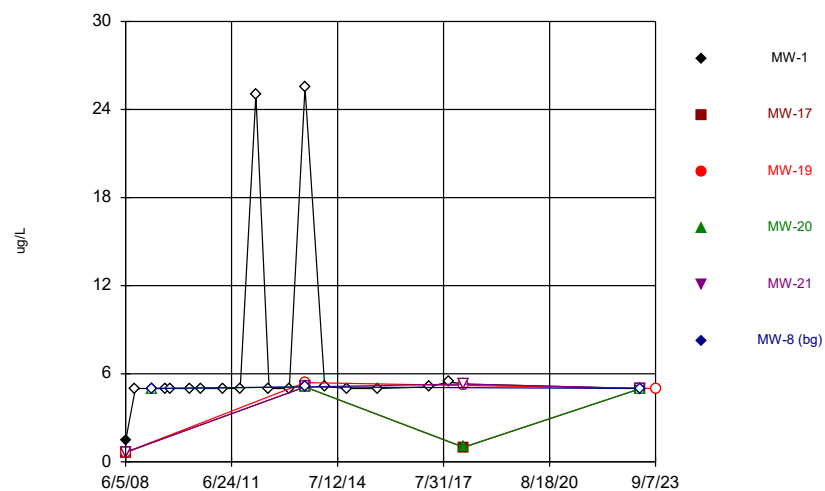
Constituent: delta-BHC Analysis Run 12/15/2025 1:19 PM View: 2025_AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



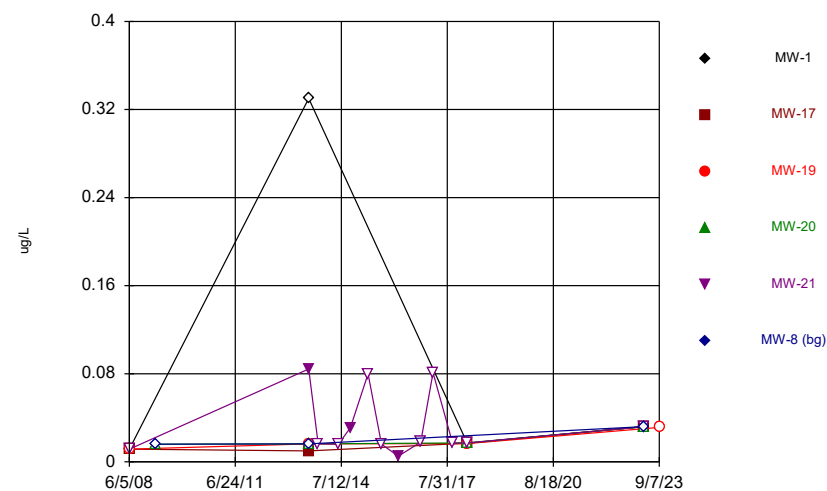
Constituent: Dieldrin Analysis Run 12/15/2025 1:19 PM View: 2025_AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



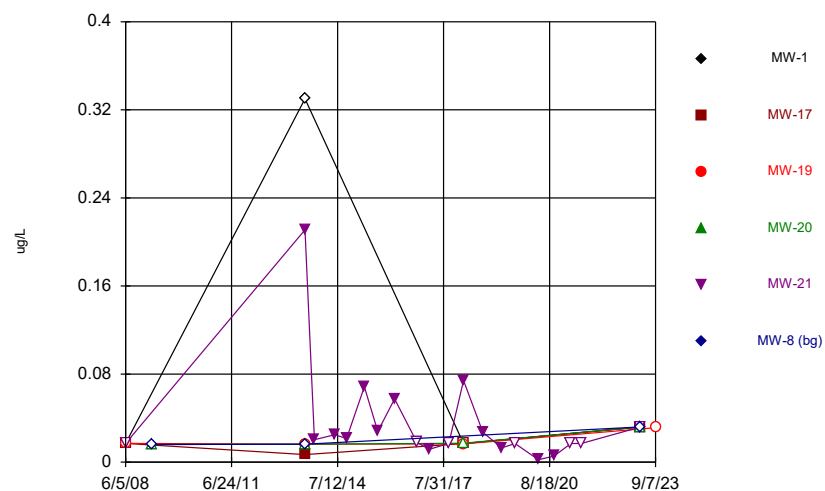
Constituent: Di-n-butyl phthalate Analysis Run 12/15/2025 1:19 PM View: 2025_AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



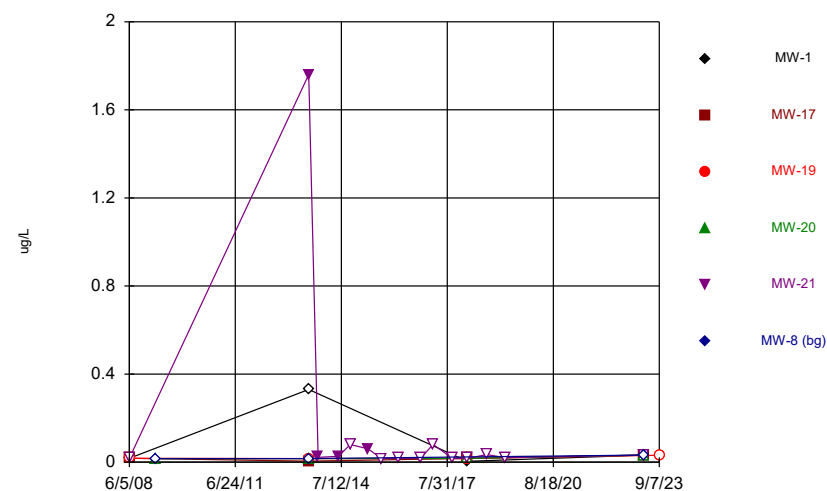
Constituent: Endosulfan II Analysis Run 12/15/2025 1:19 PM View: 2025_AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



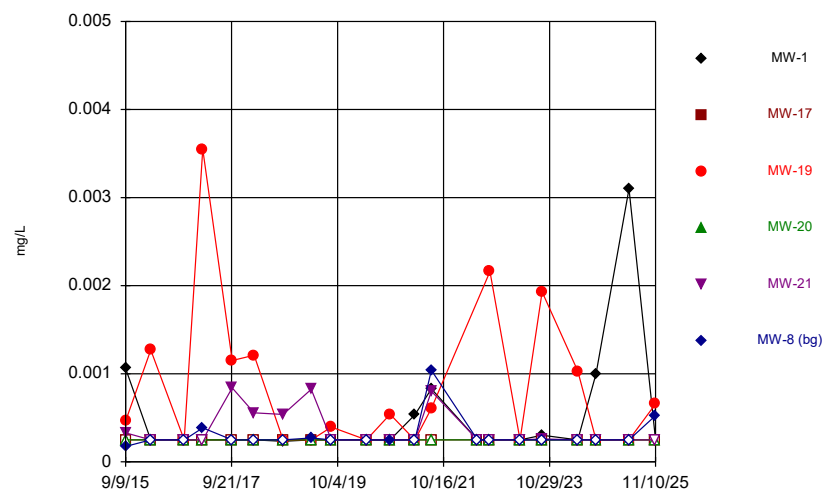
Constituent: Endrin Analysis Run 12/15/2025 1:19 PM View: 2025_AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



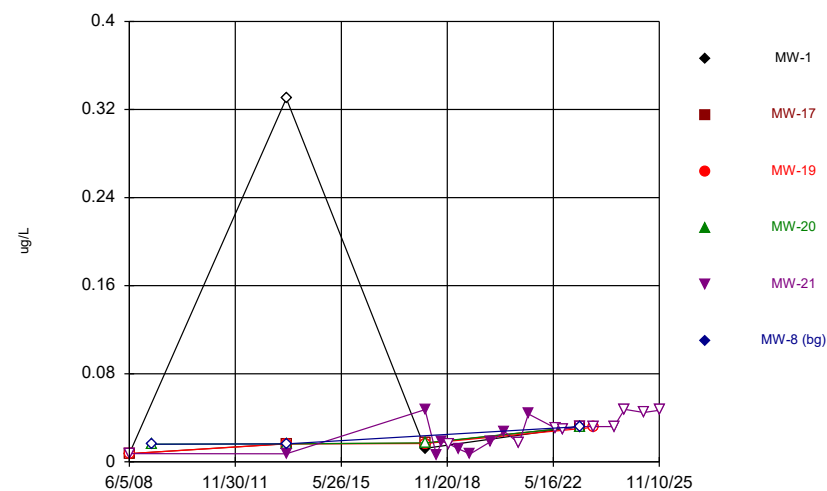
Constituent: Heptachlor Analysis Run 12/15/2025 1:19 PM View: 2025_AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



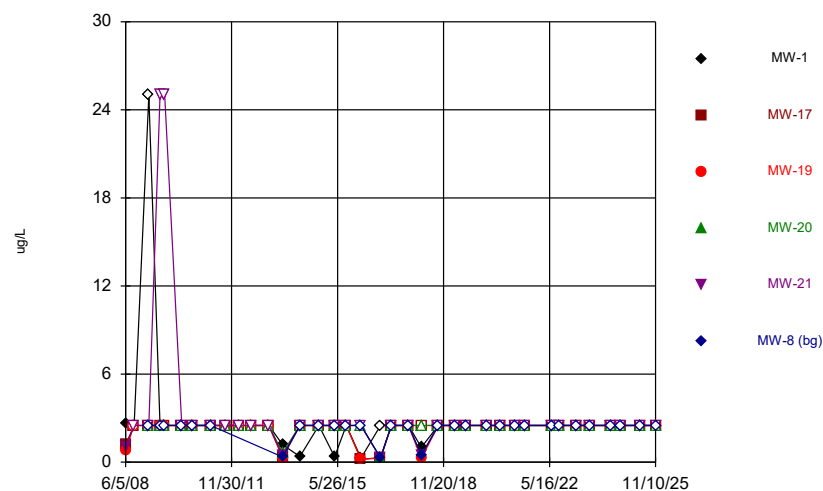
Constituent: Lead Analysis Run 12/15/2025 1:19 PM View: 2025_AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



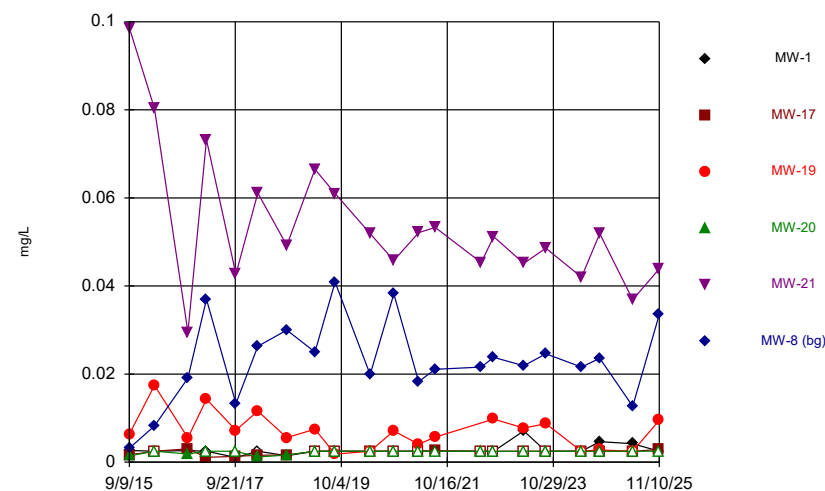
Constituent: Methoxychlor Analysis Run 12/15/2025 1:19 PM View: 2025_AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



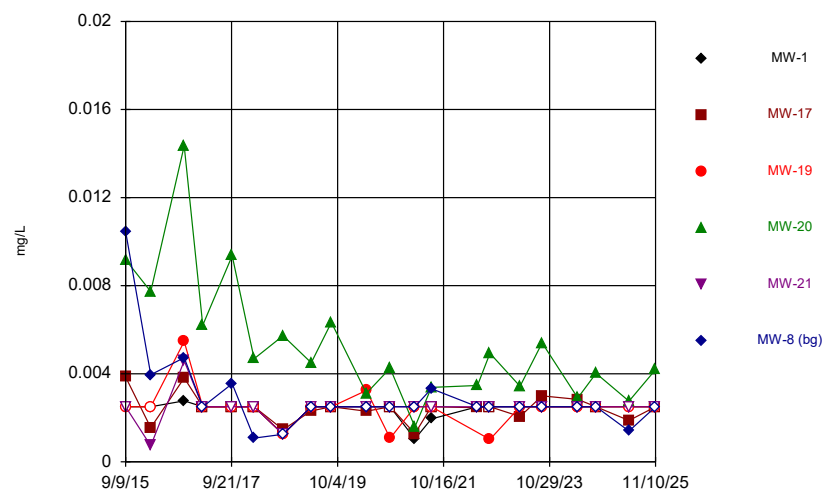
Constituent: Methylene Chloride Analysis Run 12/15/2025 1:19 PM View: 2025_AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



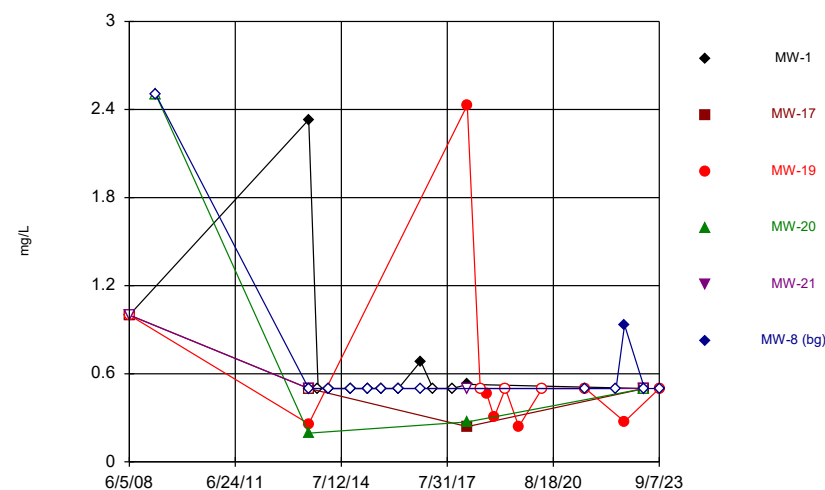
Constituent: Nickel Analysis Run 12/15/2025 1:19 PM View: 2025_AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



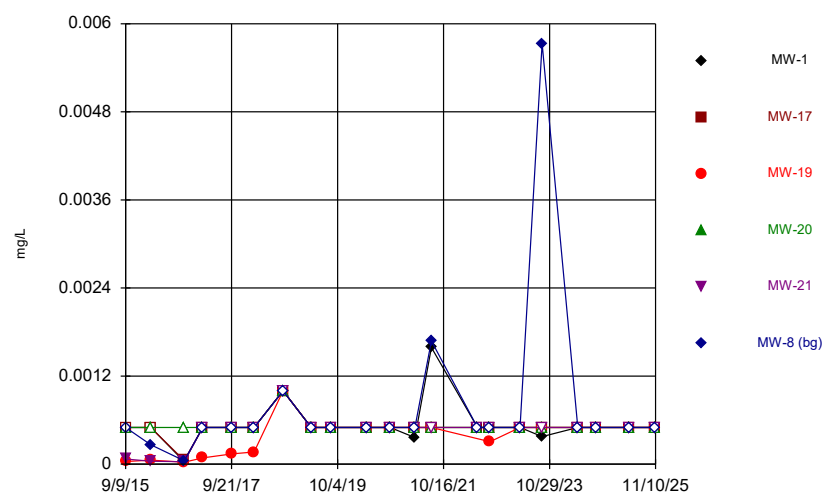
Constituent: Selenium Analysis Run 12/15/2025 1:19 PM View: 2025_AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



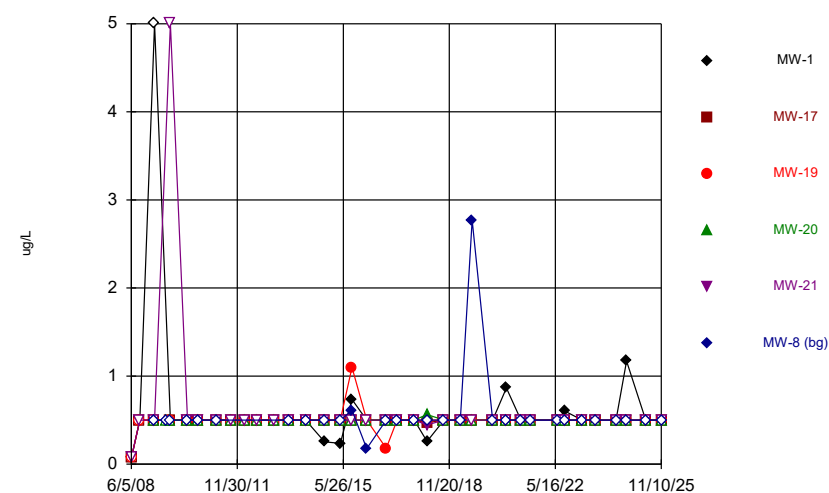
Constituent: Sulfide Analysis Run 12/15/2025 1:19 PM View: 2025_AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



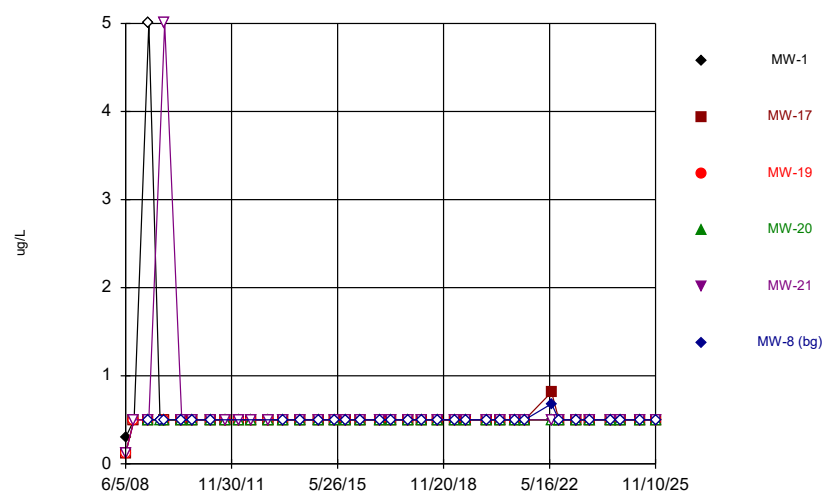
Constituent: Thallium Analysis Run 12/15/2025 1:19 PM View: 2025_AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



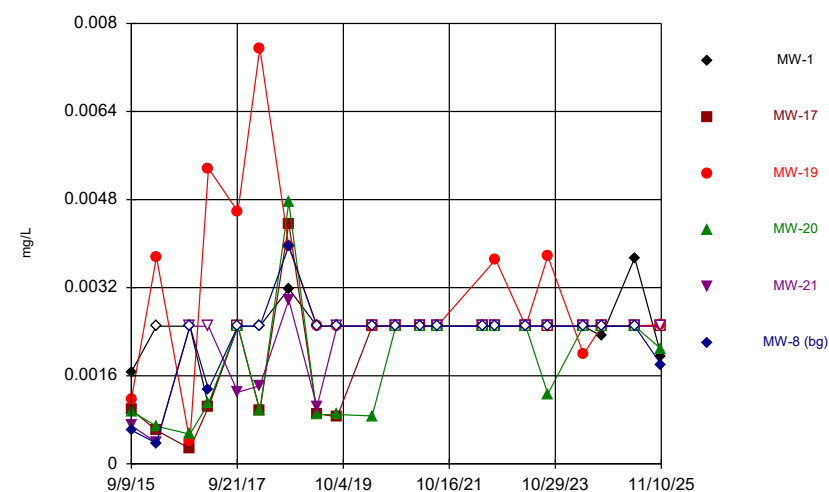
Constituent: Toluene Analysis Run 12/15/2025 1:19 PM View: 2025_AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



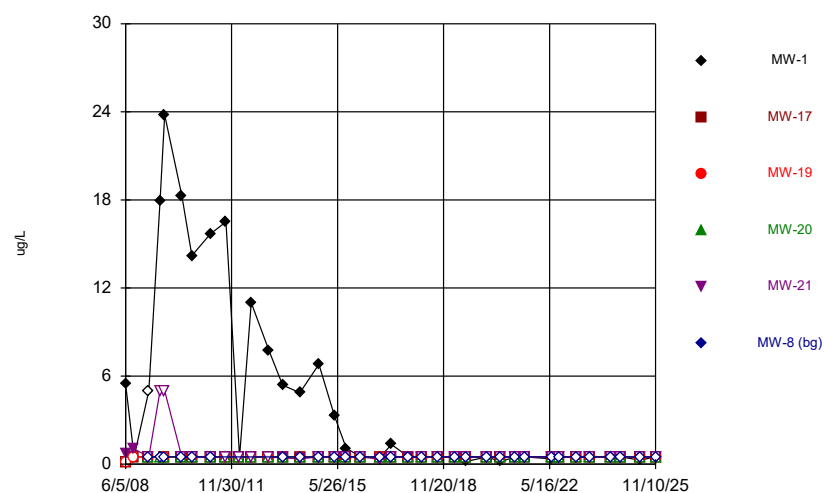
Constituent: Trichloroethene Analysis Run 12/15/2025 1:19 PM View: 2025_AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



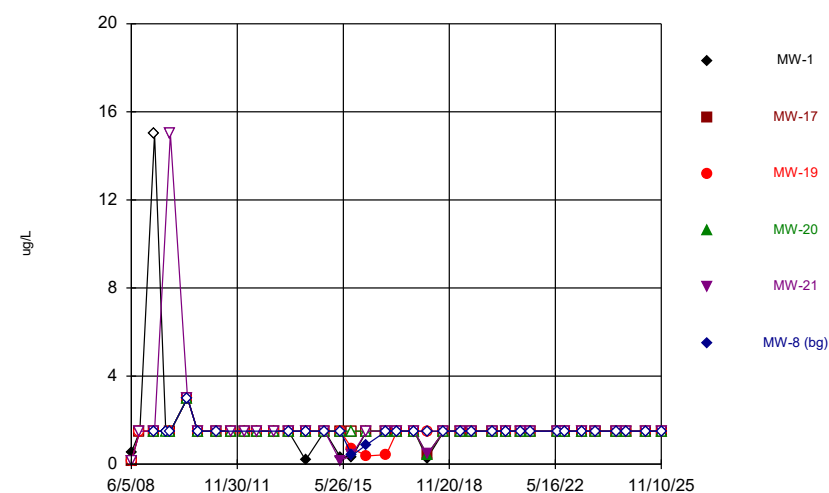
Constituent: Vanadium Analysis Run 12/15/2025 1:19 PM View: 2025_AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



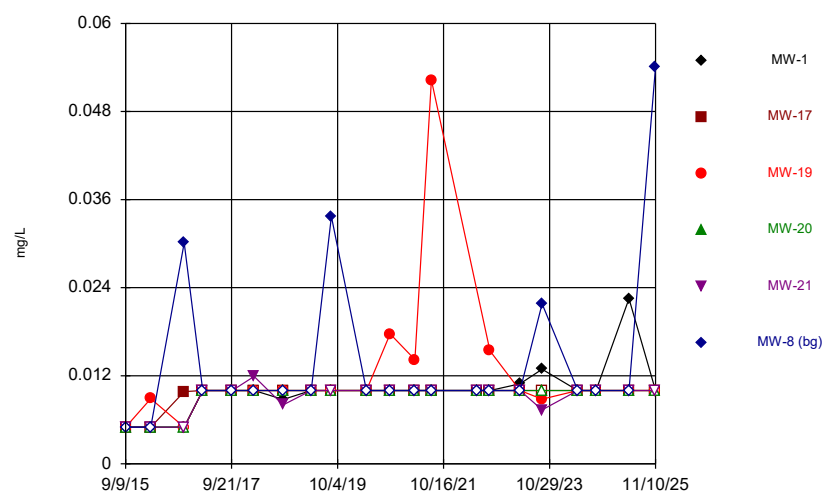
Constituent: Vinyl chloride Analysis Run 12/15/2025 1:19 PM View: 2025_AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



Constituent: Xylenes, total Analysis Run 12/15/2025 1:19 PM View: 2025_AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



Constituent: Zinc Analysis Run 12/15/2025 1:19 PM View: 2025_AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Attachment B-2

Outliers

BG Outlier Analysis

Wayne-Ringgold-Decatur SLF

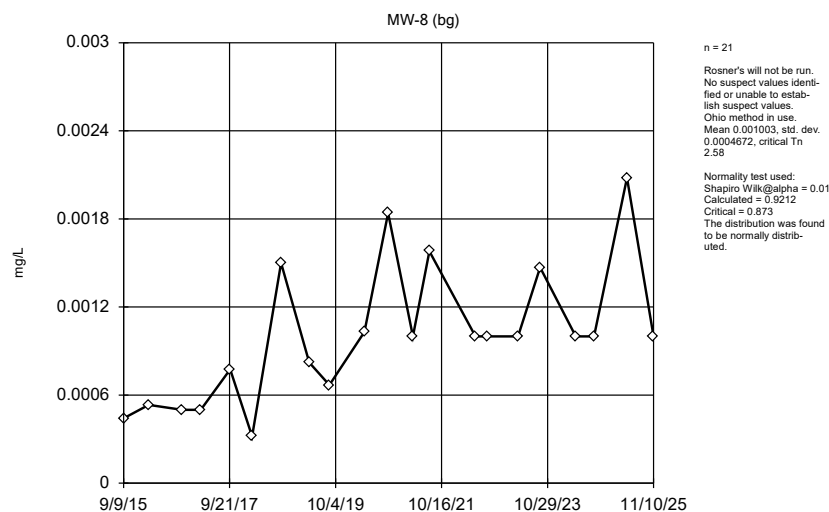
Client: SCS Engineers

Data: Sanitas WRDLF North master

Printed 12/3/2025, 12:41 PM

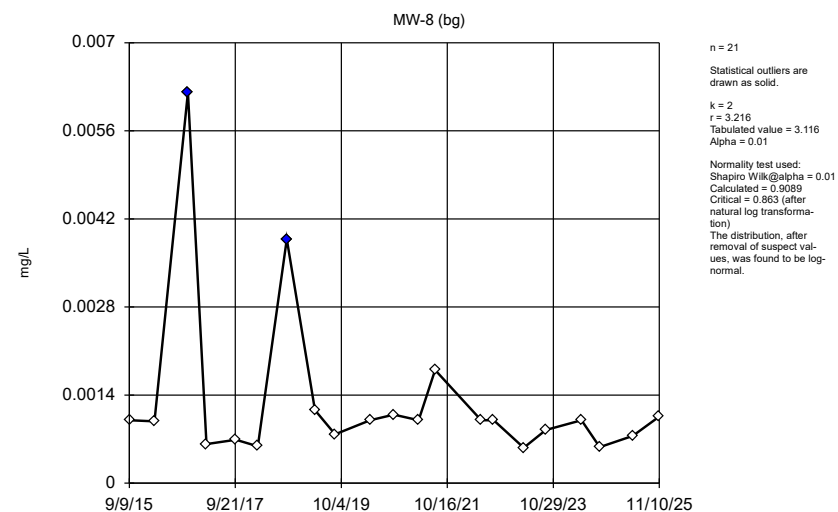
<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Antimony (mg/L)	MW-8 (bg)	No	n/a	n/a	EPA/OH	0.05	21	0.001003	0.0004672	normal	ShapiroWilk
Arsenic (mg/L)	MW-8 (bg)	Yes	0.00621,0.00388	10/24/2016,9/17/2018	Rosner/OH	0.01	21	0.001314	0.001322	ln(x)	ShapiroWilk
Barium (mg/L)	MW-8 (bg)	No	n/a	n/a	Rosner/OH	0.01	21	0.03055	0.005349	normal	ShapiroWilk
Beryllium (mg/L)	MW-8 (bg)	No	n/a	n/a	OH	NaN	21	0.0005	2.2e-7	n/a	n/a
Cadmium (mg/L)	MW-8 (bg)	No	n/a	n/a	EPA/OH	0.05	21	0.0001445	0.0001051	ln(x)	ShapiroWilk
Chromium (mg/L)	MW-8 (bg)	Yes	0.0119	3/3/2017	OH	NaN	21	0.002996	0.00206	n/a	n/a
Cobalt (mg/L)	MW-8 (bg)	No	n/a	n/a	Rosner/OH	0.01	21	0.005299	0.002484	normal	ShapiroWilk
Copper (mg/L)	MW-8 (bg)	No	n/a	n/a	OH	NaN	21	0.00238	0.0003804	n/a	n/a
Lead (mg/L)	MW-8 (bg)	No	n/a	n/a	NP (nrm)/OH	NaN	21	0.0003045	0.000182	unknown	ShapiroWilk
Nickel (mg/L)	MW-8 (bg)	No	n/a	n/a	Rosner/OH	0.01	21	0.02304	0.009465	normal	ShapiroWilk
Selenium (mg/L)	MW-8 (bg)	Yes	0.01046,0.00473,0.00108,0.00125	9/9/2015,10/24/20...	NP (nrm)/OH	NaN	21	0.002964	0.001903	unknown	ShapiroWilk
Silver (mg/L)	MW-8 (bg)	No	n/a	n/a	OH	NaN	21	0.000482	0.0001331	n/a	n/a
Thallium (mg/L)	MW-8 (bg)	Yes	0.00573	9/7/2023	OH	NaN	21	0.0007962	0.001171	n/a	n/a
Vanadium (mg/L)	MW-8 (bg)	No	n/a	n/a	OH	NaN	21	0.00229	0.0007447	n/a	n/a
Zinc (mg/L)	MW-8 (bg)	Yes	0.0541	11/10/2025	OH	NaN	21	0.01427	0.01165	n/a	n/a

EPA Screening (suspected outliers for Rosner's Test)



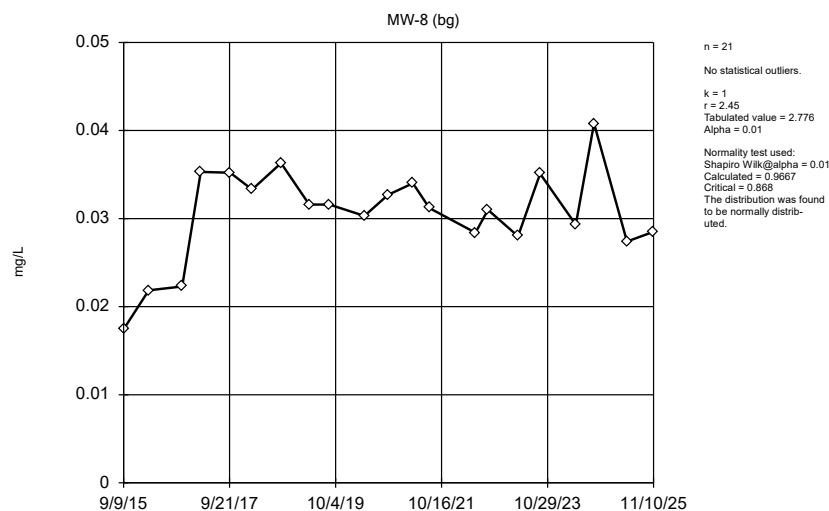
Constituent: Antimony Analysis Run 12/3/2025 12:37 PM View: 2025_AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Rosner's Outlier Test / Ohio EPA 0715 Outlier Algorithm



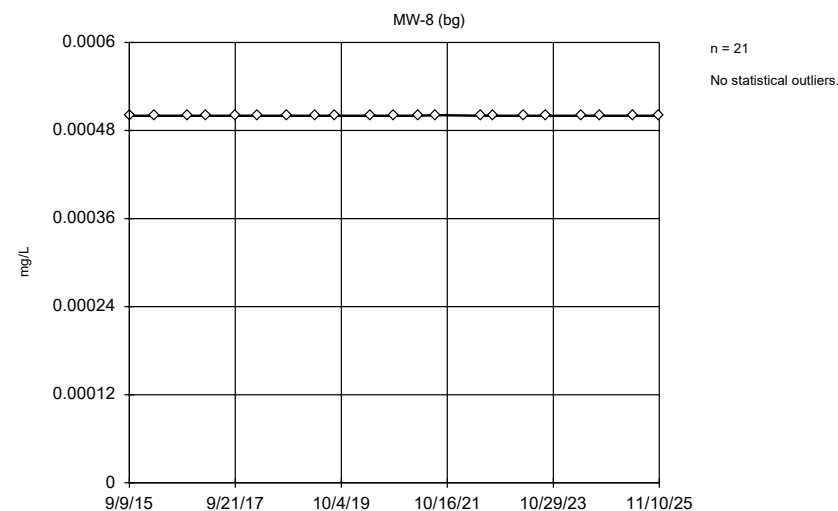
Constituent: Arsenic Analysis Run 12/3/2025 12:37 PM View: 2025_AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Rosner's Outlier Test / Ohio EPA 0715 Outlier Algorithm



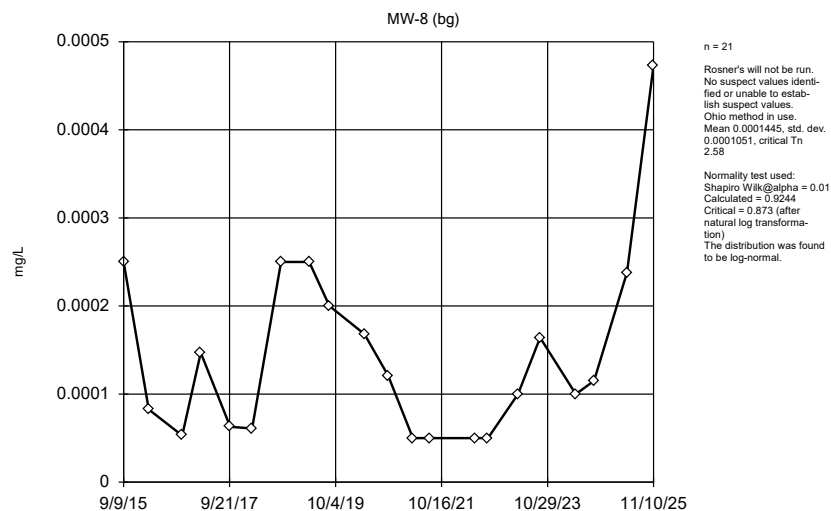
Constituent: Barium Analysis Run 12/3/2025 12:37 PM View: 2025_AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Ohio EPA 0715 Outlier Algorithm



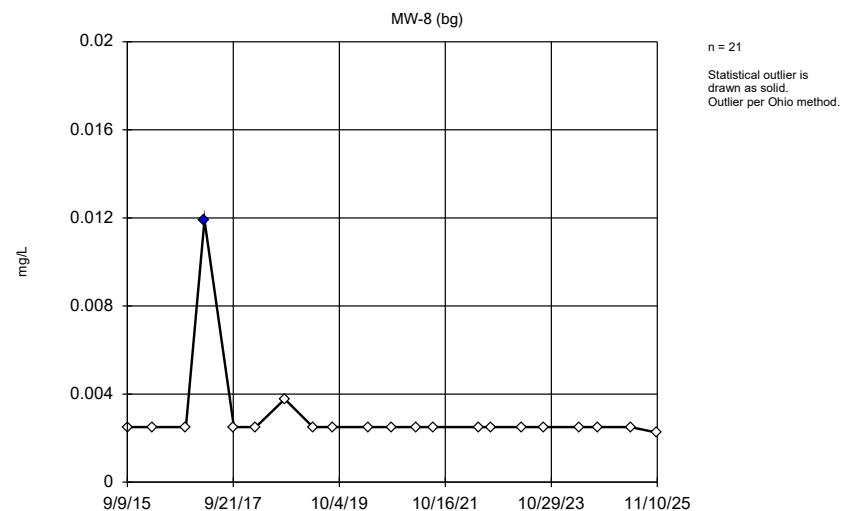
Constituent: Beryllium Analysis Run 12/3/2025 12:37 PM View: 2025_AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

EPA Screening (suspected outliers for Rosner's Test)



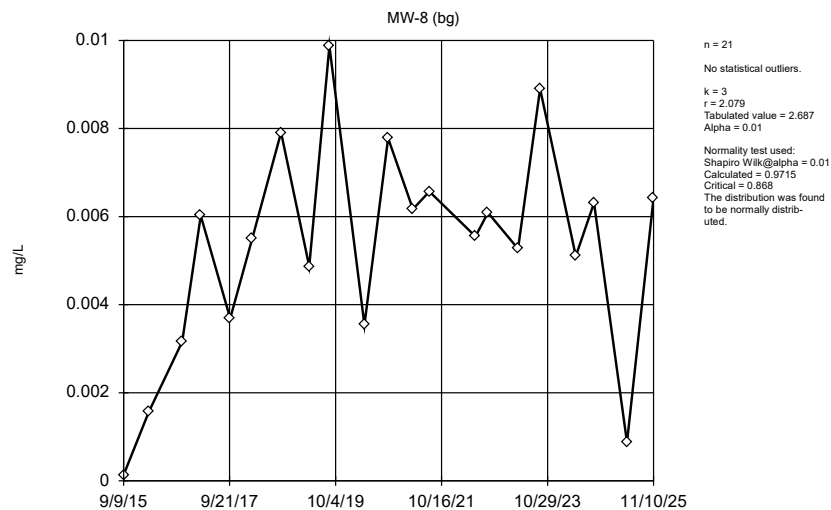
Constituent: Cadmium Analysis Run 12/3/2025 12:37 PM View: 2025_AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Ohio EPA 0715 Outlier Algorithm



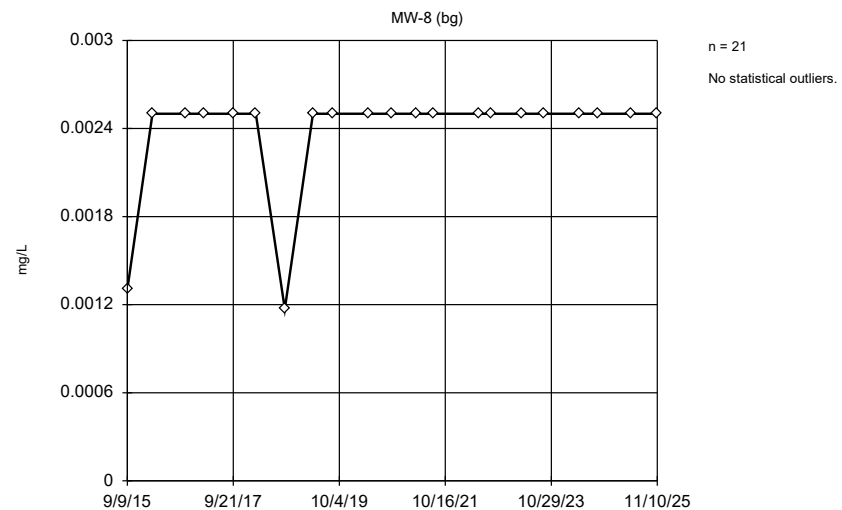
Constituent: Chromium Analysis Run 12/3/2025 12:37 PM View: 2025_AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Rosner's Outlier Test / Ohio EPA 0715 Outlier Algorithm



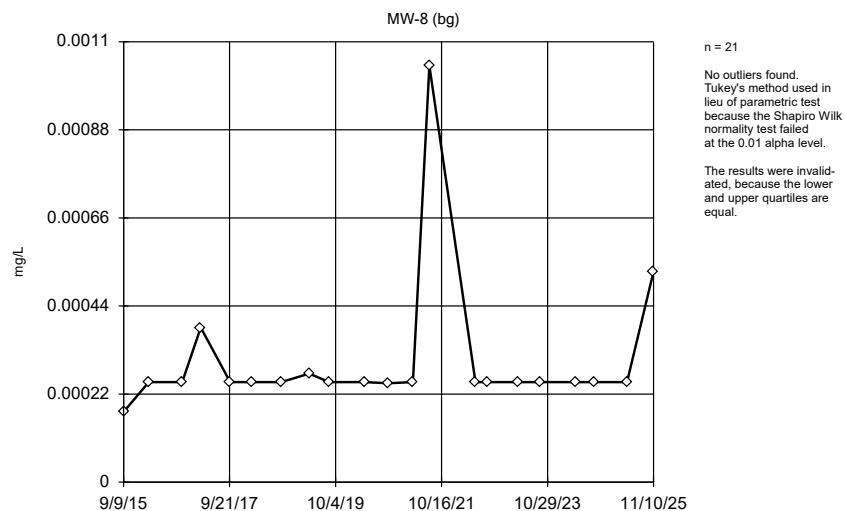
Constituent: Cobalt Analysis Run 12/3/2025 12:37 PM View: 2025_AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Ohio EPA 0715 Outlier Algorithm



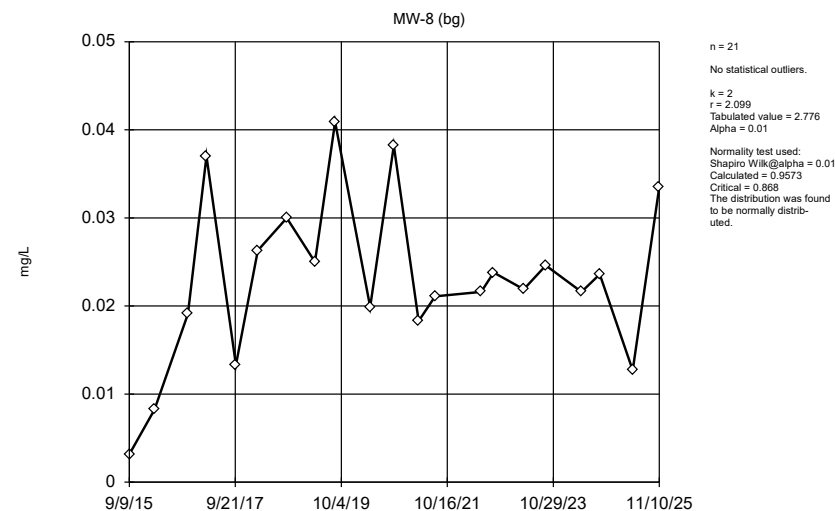
Constituent: Copper Analysis Run 12/3/2025 12:37 PM View: 2025_AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm



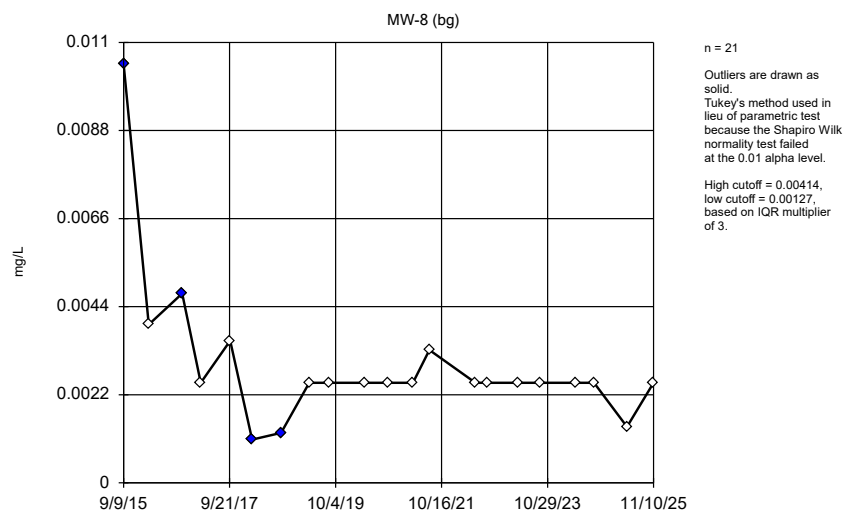
Constituent: Lead Analysis Run 12/3/2025 12:37 PM View: 2025_AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Rosner's Outlier Test / Ohio EPA 0715 Outlier Algorithm



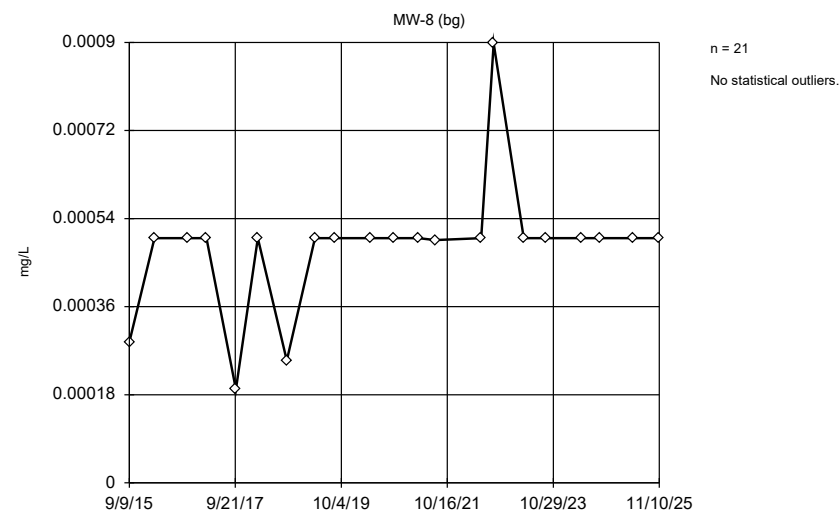
Constituent: Nickel Analysis Run 12/3/2025 12:37 PM View: 2025_AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm

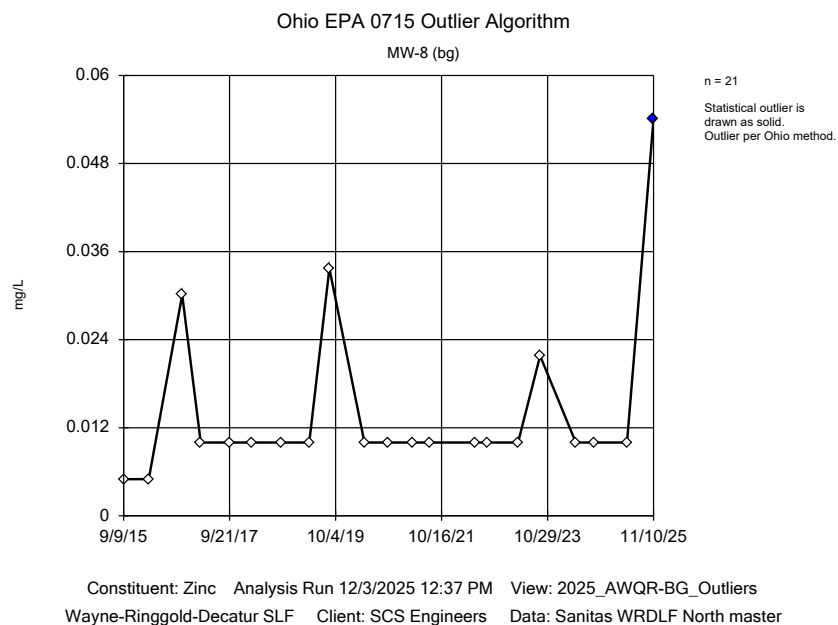
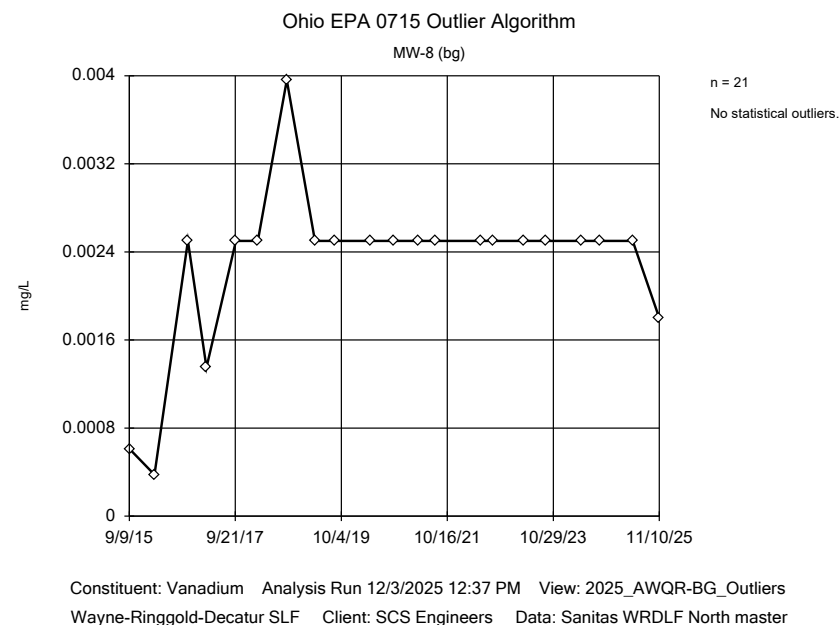
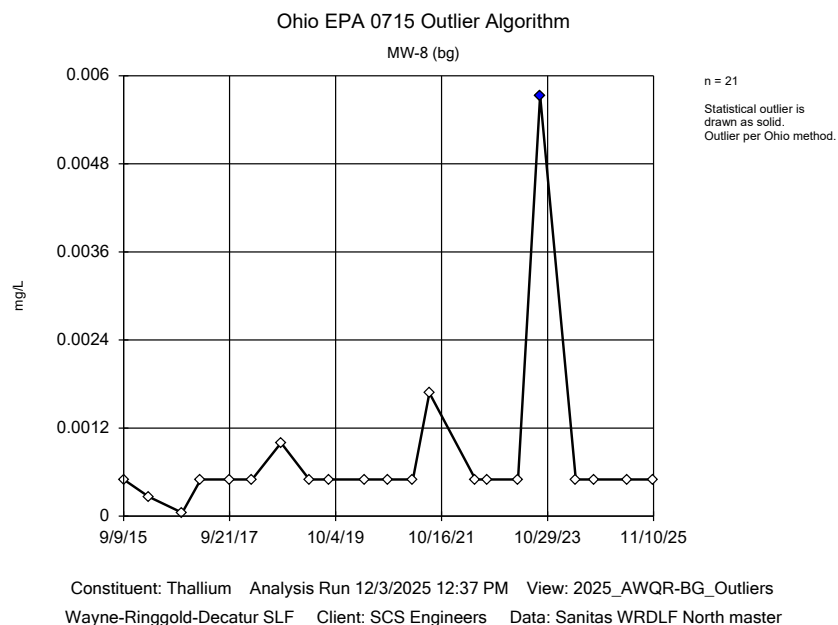


Constituent: Selenium Analysis Run 12/3/2025 12:37 PM View: 2025_AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Ohio EPA 0715 Outlier Algorithm



Constituent: Silver Analysis Run 12/3/2025 12:37 PM View: 2025_AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master



Attachment B-3
Prediction Limits

Prediction Limit

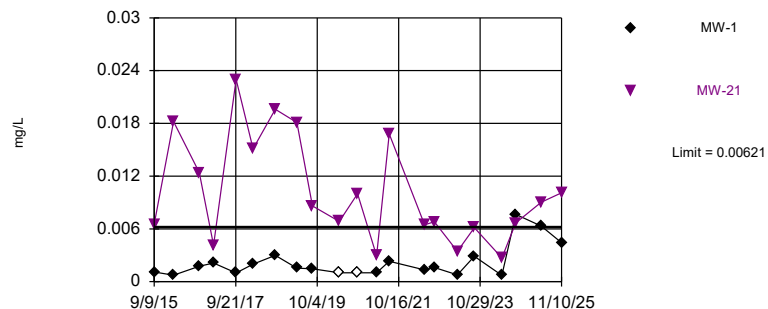
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master Printed 12/3/2025, 1:52 PM

<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-1	0.00621	n/a	11/10/2025	0.00442	No	21	MW-8	28.57	n/a	0.003759	NP Inter (normality) 1 of 2
Arsenic (mg/L)	MW-21	0.00621	n/a	11/10/2025	0.0101	Yes	21	MW-8	28.57	n/a	0.003759	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-1	0.04272	n/a	11/10/2025	0.49	Yes	21	MW-8	0	No	0.0007022	Param Inter 1 of 2
Barium (mg/L)	MW-17	0.04272	n/a	11/10/2025	0.0497	Yes	21	MW-8	0	No	0.0007022	Param Inter 1 of 2
Barium (mg/L)	MW-19	0.04272	n/a	11/10/2025	0.127	Yes	21	MW-8	0	No	0.0007022	Param Inter 1 of 2
Barium (mg/L)	MW-20	0.04272	n/a	11/10/2025	0.0819	Yes	21	MW-8	0	No	0.0007022	Param Inter 1 of 2
Barium (mg/L)	MW-21	0.04272	n/a	11/10/2025	0.592	Yes	21	MW-8	0	No	0.0007022	Param Inter 1 of 2
Cadmium (mg/L)	MW-19	0.0003642	n/a	11/10/2025	0.000226	No	21	MW-8	42.86	sqrt(x)	0.0007022	Param Inter 1 of 2
Cobalt (mg/L)	MW-19	0.01095	n/a	11/10/2025	0.00339	No	21	MW-8	0	No	0.0007022	Param Inter 1 of 2
Cobalt (mg/L)	MW-21	0.01095	n/a	11/10/2025	0.0162	Yes	21	MW-8	0	No	0.0007022	Param Inter 1 of 2
Lead (mg/L)	MW-19	0.00104	n/a	11/10/2025	0.000658	No	21	MW-8	71.43	n/a	0.003759	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-19	0.04456	n/a	11/10/2025	0.00951	No	21	MW-8	0	No	0.0007022	Param Inter 1 of 2
Nickel (mg/L)	MW-21	0.04456	n/a	11/10/2025	0.0439	No	21	MW-8	0	No	0.0007022	Param Inter 1 of 2

Exceeds Limit: MW-21

Prediction Limit

Interwell Non-parametric



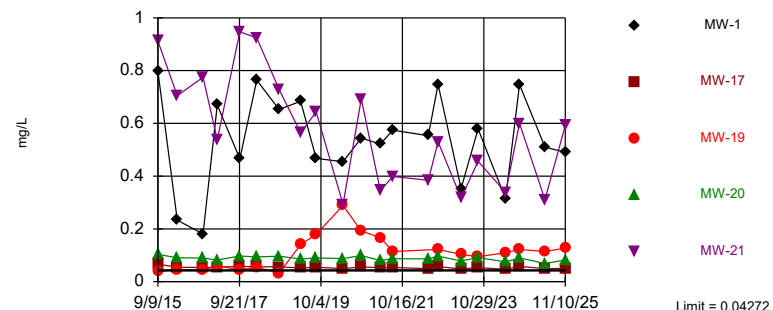
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 21 background values. 28.57% NDs. Annual per-constituent alpha = 0.03696. Individual comparison alpha = 0.003759 (1 of 2). Comparing 2 points to limit. Assumes 3 future values.

Constituent: Arsenic Analysis Run 12/3/2025 1:48 PM View: 2025_AWQR-AM_Interwell_PL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Exceeds Limit: MW-1, MW-17, MW-19, MW-20, MW-21

Prediction Limit

Interwell Parametric



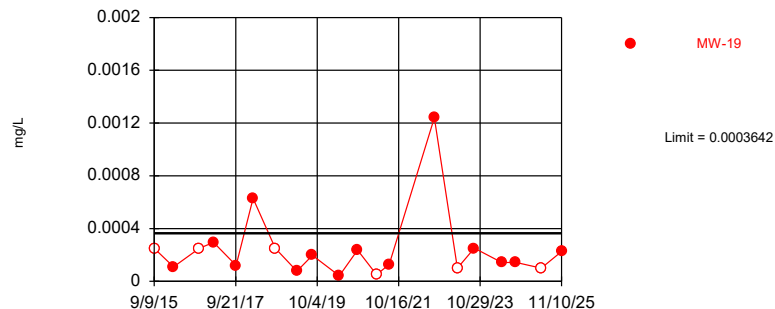
Background Data Summary: Mean=0.03055, Std. Dev.=0.005349, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9526, critical = 0.873. Kappa = 2.274 (c=15, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.003506. Individual comparison alpha = 0.0007022. Comparing 5 points to limit.

Constituent: Barium Analysis Run 12/3/2025 1:48 PM View: 2025_AWQR-AM_Interwell_PL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Within Limit

Prediction Limit

Interwell Parametric



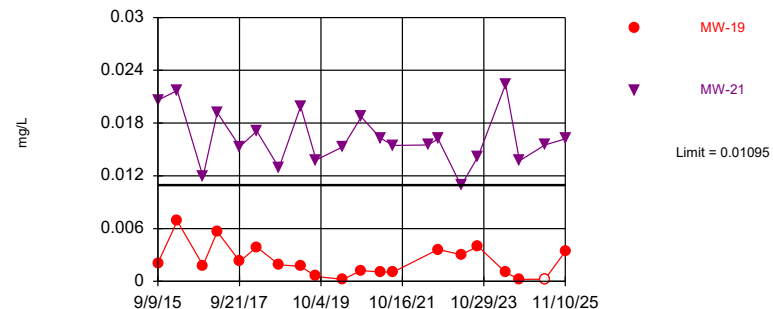
Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.01079, Std. Dev.=0.003648, n=21, 42.86% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8998, critical = 0.873. Kappa = 2.274 (c=15, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.003506. Individual comparison alpha = 0.0007022. Assumes 4 future values.

Constituent: Cadmium Analysis Run 12/3/2025 1:48 PM View: 2025_AWQR-AM_Interwell_PL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Exceeds Limit: MW-21

Prediction Limit

Interwell Parametric

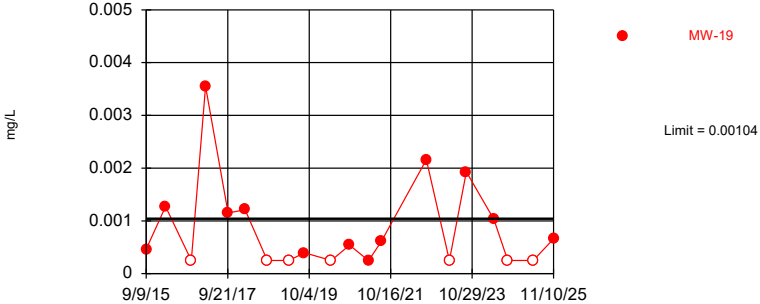


Background Data Summary: Mean=0.005299, Std. Dev.=0.002484, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9627, critical = 0.873. Kappa = 2.274 (c=15, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.003506. Individual comparison alpha = 0.0007022. Comparing 2 points to limit. Assumes 3 future values.

Constituent: Cobalt Analysis Run 12/3/2025 1:48 PM View: 2025_AWQR-AM_Interwell_PL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Within Limit

Prediction Limit
Interwell Non-parametric

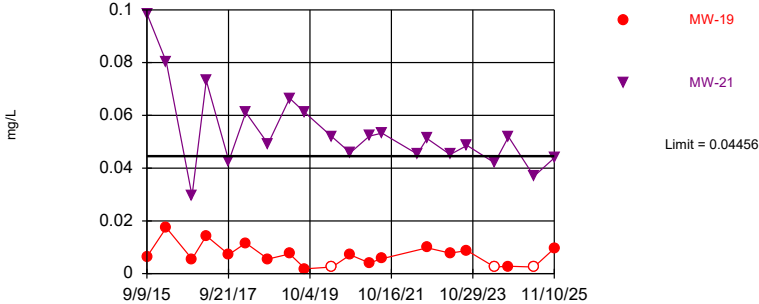


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 71.43% NDs. Annual per-constituent alpha = 0.03696. Individual comparison alpha = 0.003759 (1 of 2). Assumes 4 future values.

Constituent: Lead Analysis Run 12/3/2025 1:48 PM View: 2025_AWQR-AM_Interwell_PL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Within Limit

Prediction Limit
Interwell Parametric



Background Data Summary: Mean=0.02304, Std. Dev.=0.009465, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9681, critical = 0.873. Kappa = 2.274 (c=15, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.003506. Individual comparison alpha = 0.0007022. Comparing 2 points to limit. Assumes 3 future values.

Constituent: Nickel Analysis Run 12/3/2025 1:48 PM View: 2025_AWQR-AM_Interwell_PL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master



Attachment B-4

Mann-Kendall Trends

Trend Test

Wayne-Ringgold-Decatur SLF

Client: SCS Engineers

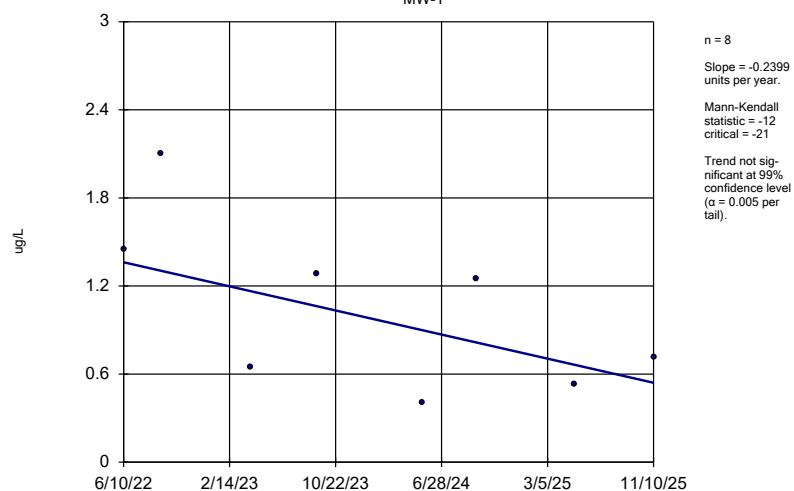
Data: WRDN_AM_2025_AWQR

Printed 12/3/2025, 3:01 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
1,1-Dichloroethane (ug/L)	MW-1	-0.2399	-12	-21	No	8	0	0.01	NP
Arsenic (mg/L)	MW-1	0.001254	10	21	No	8	0	0.01	NP
Arsenic (mg/L)	MW-21	0.001048	10	21	No	8	0	0.01	NP
Barium (mg/L)	MW-1	-0.02685	-6	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-17	0.000061	2	21	No	8	0	0.01	NP
Barium (mg/L)	MW-19	0.003543	8	21	No	8	0	0.01	NP
Barium (mg/L)	MW-20	-0.004405	-10	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-21	0.01921	2	21	No	8	0	0.01	NP
Benzene (ug/L)	MW-1	-0.06004	-3	-21	No	8	25	0.01	NP
Benzene (ug/L)	MW-21	-0.01849	-6	-21	No	8	12.5	0.01	NP
Beryllium (mg/L)	MW-19	0	-7	-21	No	8	87.5	0.01	NP
Cadmium (mg/L)	MW-19	-0.000003819	-1	-21	No	8	25	0.01	NP
Cadmium (mg/L)	MW-21	0.00001788	16	21	No	8	75	0.01	NP
Chromium (mg/L)	MW-19	0	-4	-21	No	8	62.5	0.01	NP
Cobalt (mg/L)	MW-1	0.0001342	12	21	No	8	12.5	0.01	NP
Cobalt (mg/L)	MW-19	-0.0002357	-6	-21	No	8	12.5	0.01	NP
Cobalt (mg/L)	MW-21	0.0004919	4	21	No	8	0	0.01	NP
Copper (mg/L)	MW-19	-0.01307	-16	-21	No	8	12.5	0.01	NP
Lead (mg/L)	MW-1	0.0000209	10	21	No	8	62.5	0.01	NP
Lead (mg/L)	MW-19	-0.0001617	-7	-21	No	8	37.5	0.01	NP
Nickel (mg/L)	MW-1	0	2	21	No	8	62.5	0.01	NP
Nickel (mg/L)	MW-19	-0.0006468	-5	-21	No	8	25	0.01	NP
Nickel (mg/L)	MW-21	-0.001934	-8	-21	No	8	0	0.01	NP
Selenium (mg/L)	MW-20	-0.0001883	-4	-21	No	8	0	0.01	NP
Toluene (ug/L)	MW-1	0	-1	-21	No	8	75	0.01	NP
Zinc (mg/L)	MW-1	0	4	21	No	8	62.5	0.01	NP
Zinc (mg/L)	MW-19	-0.0008488	-10	-21	No	8	62.5	0.01	NP

Sen's Slope Estimator

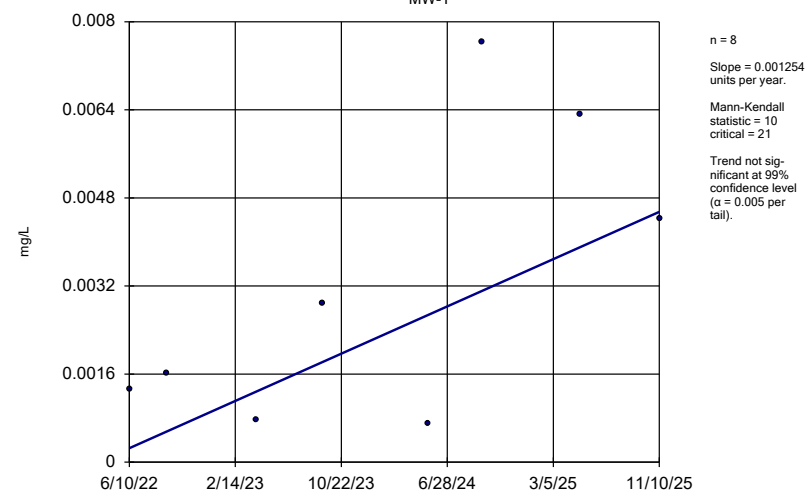
MW-1



Constituent: 1,1-Dichloroethane Analysis Run 12/3/2025 2:59 PM View: 2025_AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDN_AM_2025_AWQR

Sen's Slope Estimator

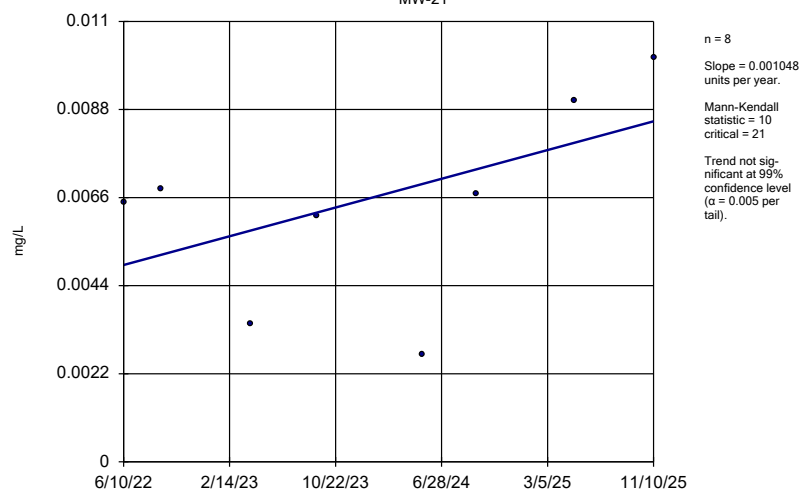
MW-1



Constituent: Arsenic Analysis Run 12/3/2025 2:59 PM View: 2025_AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDN_AM_2025_AWQR

Sen's Slope Estimator

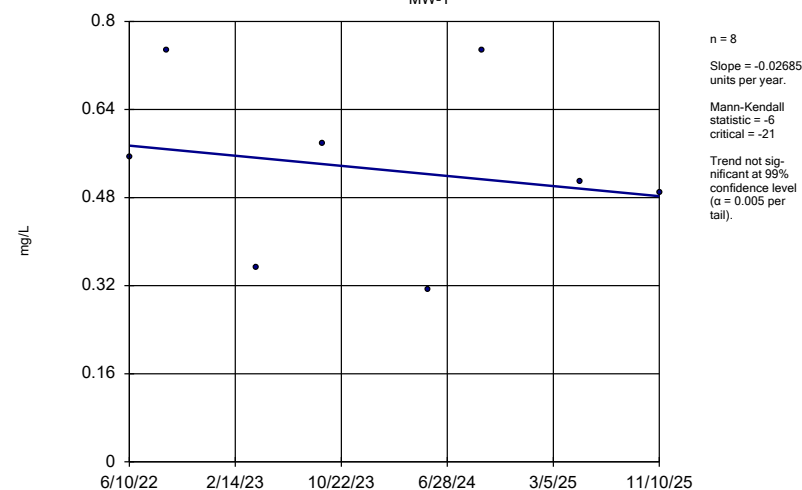
MW-21



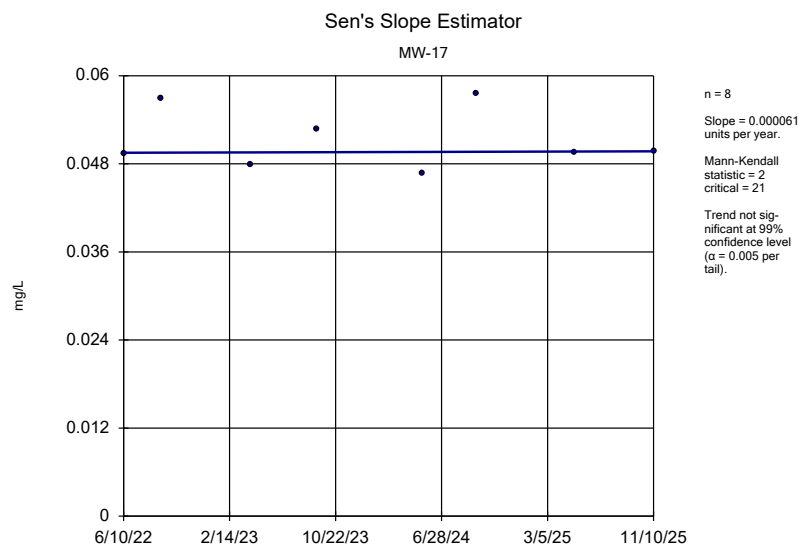
Constituent: Arsenic Analysis Run 12/3/2025 2:59 PM View: 2025_AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDN_AM_2025_AWQR

Sen's Slope Estimator

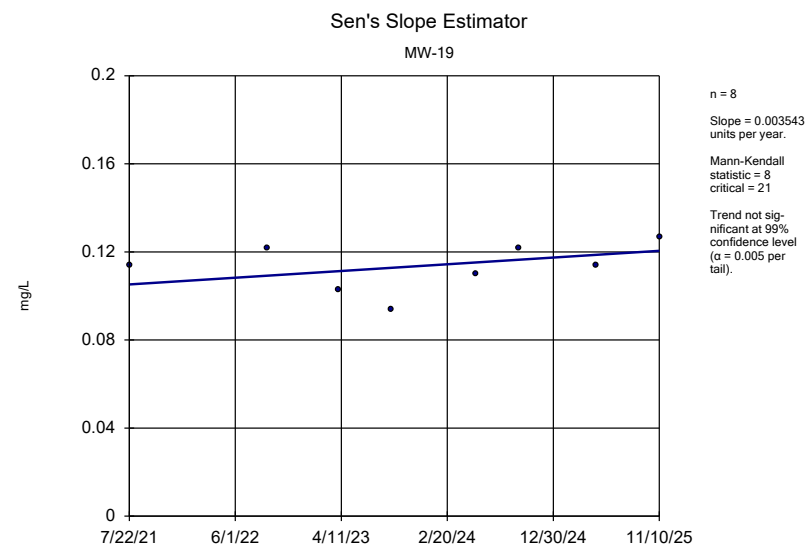
MW-1



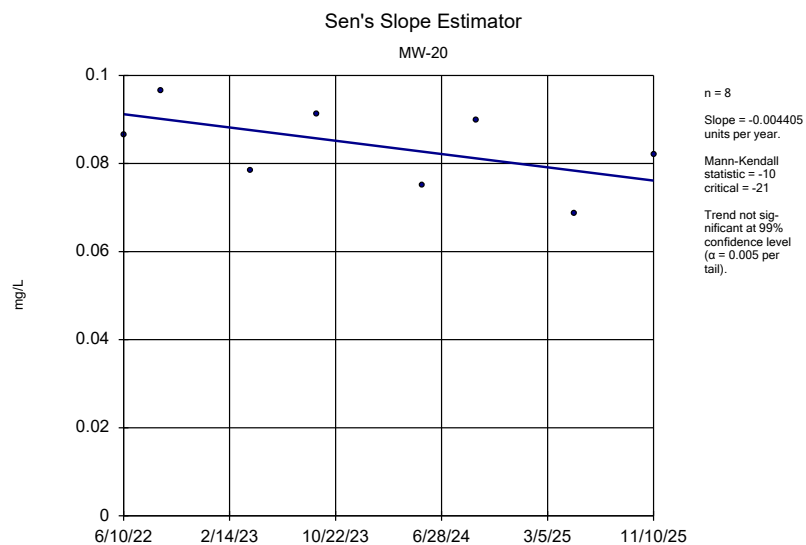
Constituent: Barium Analysis Run 12/3/2025 2:59 PM View: 2025_AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDN_AM_2025_AWQR



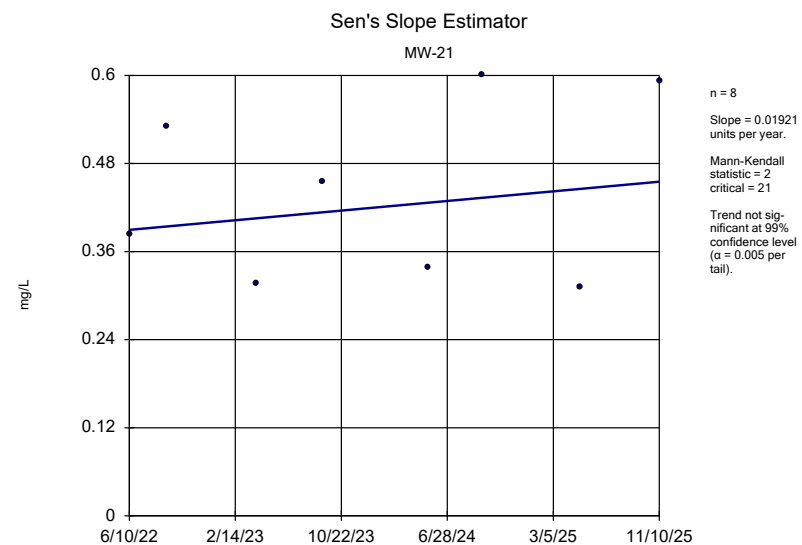
Constituent: Barium Analysis Run 12/3/2025 2:59 PM View: 2025_AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDN_AM_2025_AWQR



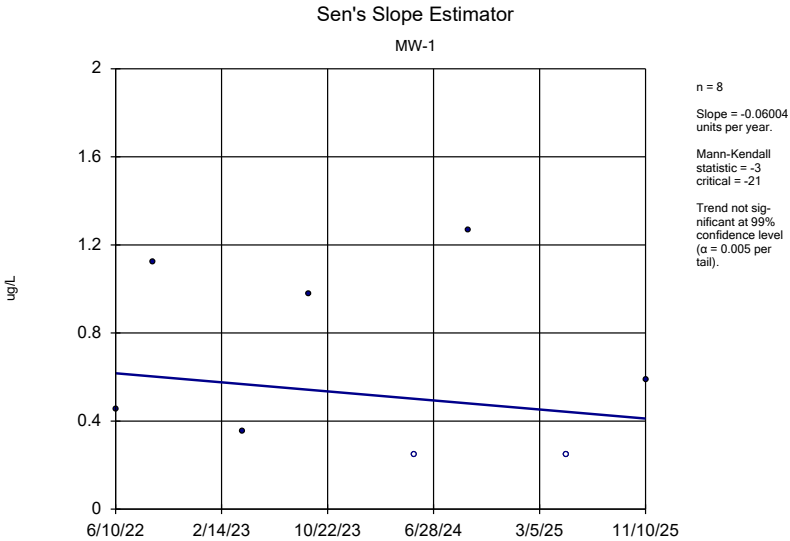
Constituent: Barium Analysis Run 12/3/2025 2:59 PM View: 2025_AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDN_AM_2025_AWQR



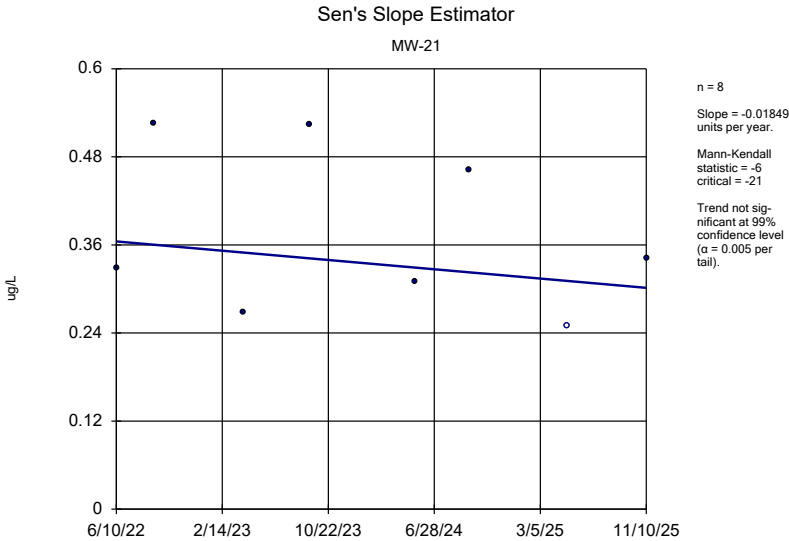
Constituent: Barium Analysis Run 12/3/2025 2:59 PM View: 2025_AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDN_AM_2025_AWQR



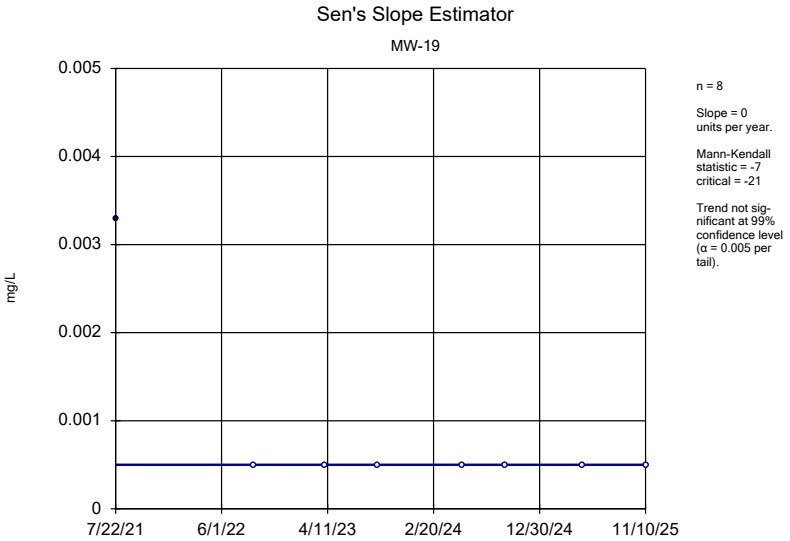
Constituent: Barium Analysis Run 12/3/2025 2:59 PM View: 2025_AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDN_AM_2025_AWQR



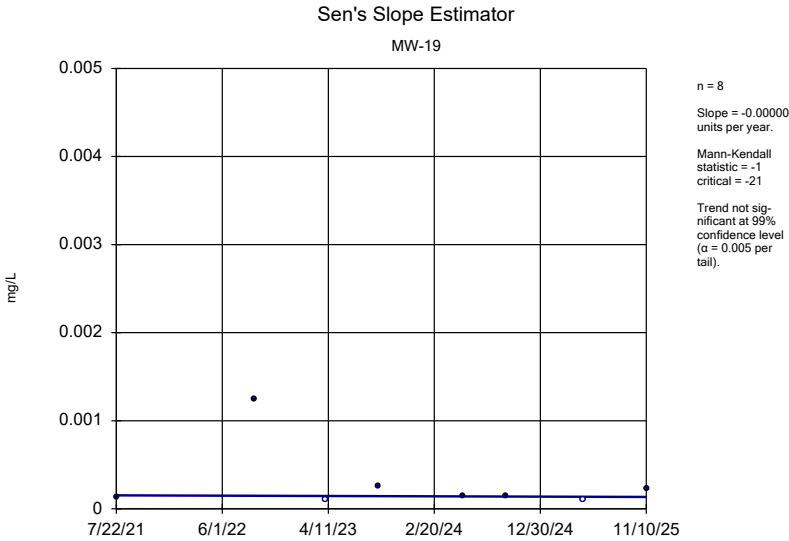
Constituent: Benzene Analysis Run 12/3/2025 2:59 PM View: 2025_AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDN_AM_2025_AWQR



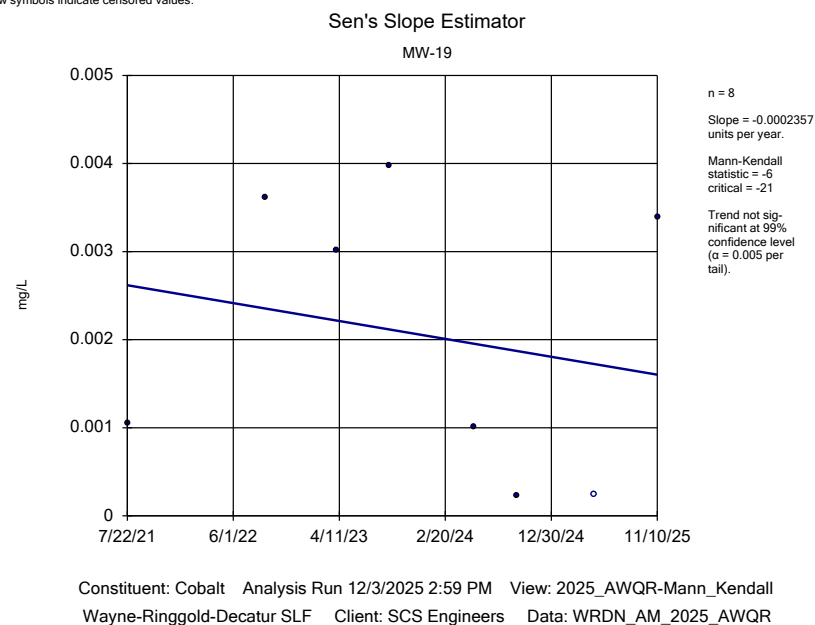
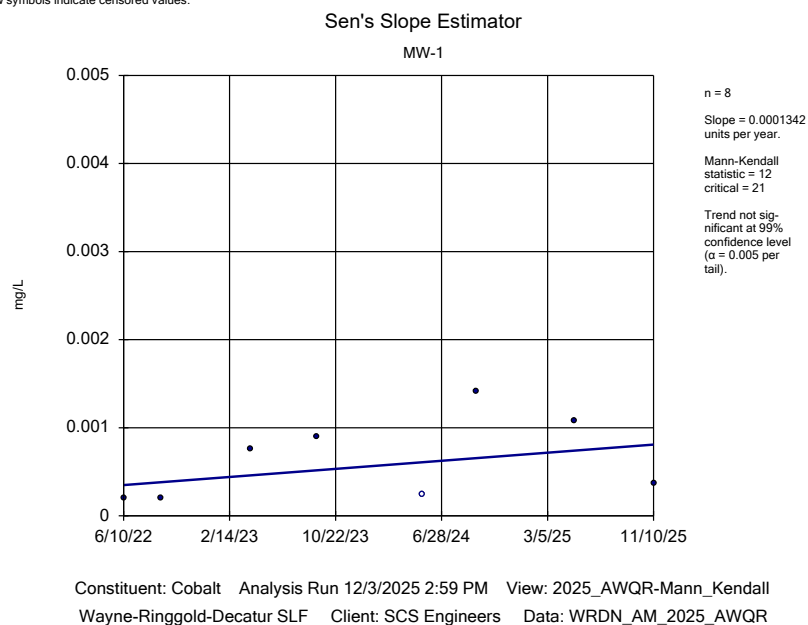
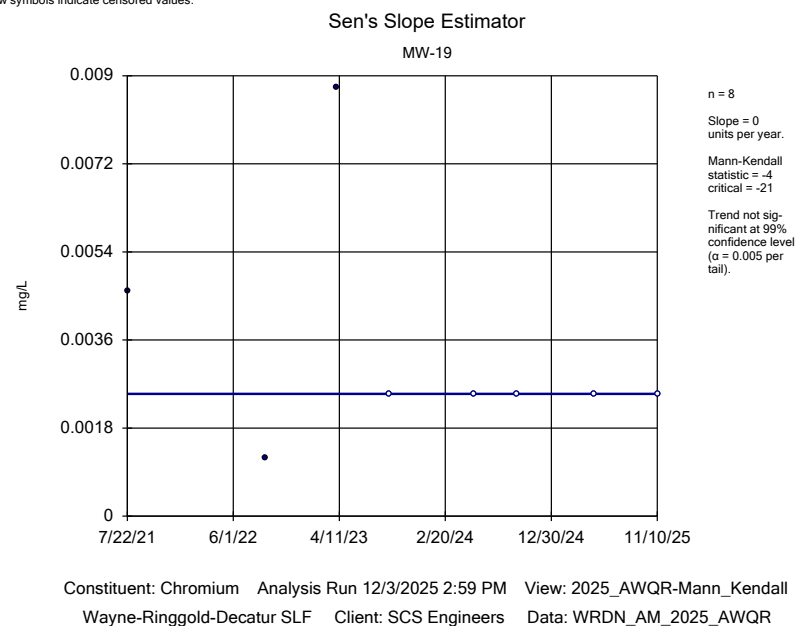
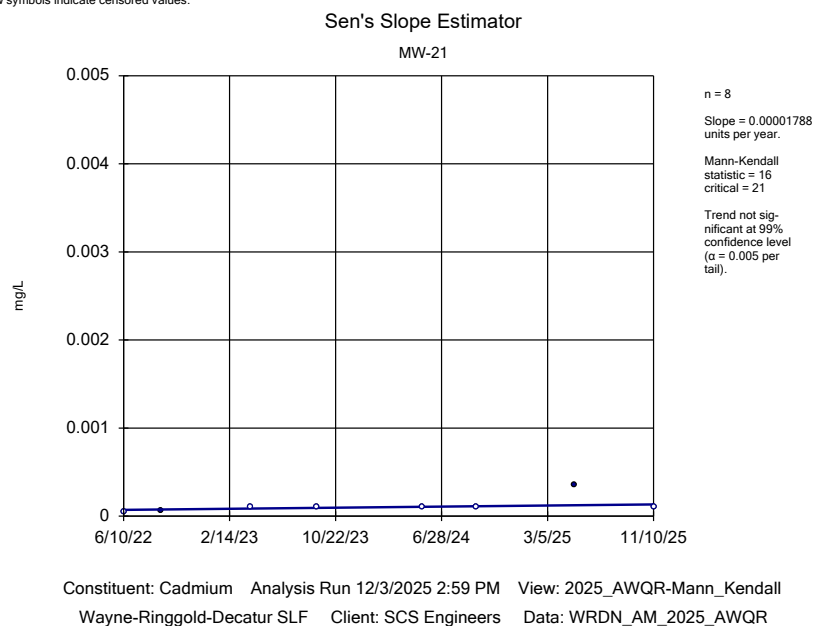
Constituent: Benzene Analysis Run 12/3/2025 2:59 PM View: 2025_AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDN_AM_2025_AWQR

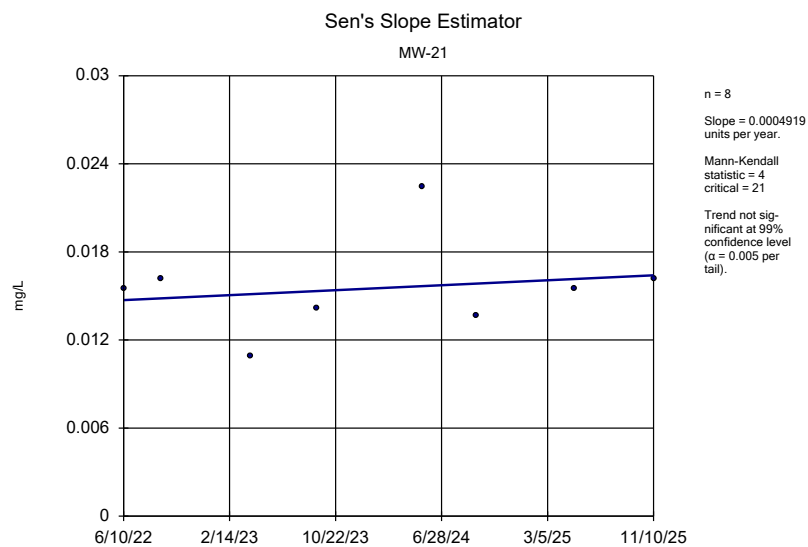


Constituent: Beryllium Analysis Run 12/3/2025 2:59 PM View: 2025_AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDN_AM_2025_AWQR

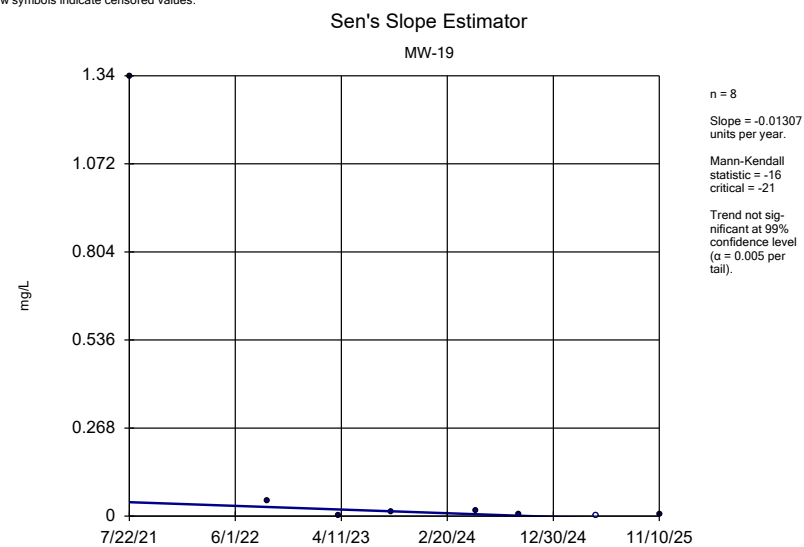


Constituent: Cadmium Analysis Run 12/3/2025 2:59 PM View: 2025_AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDN_AM_2025_AWQR

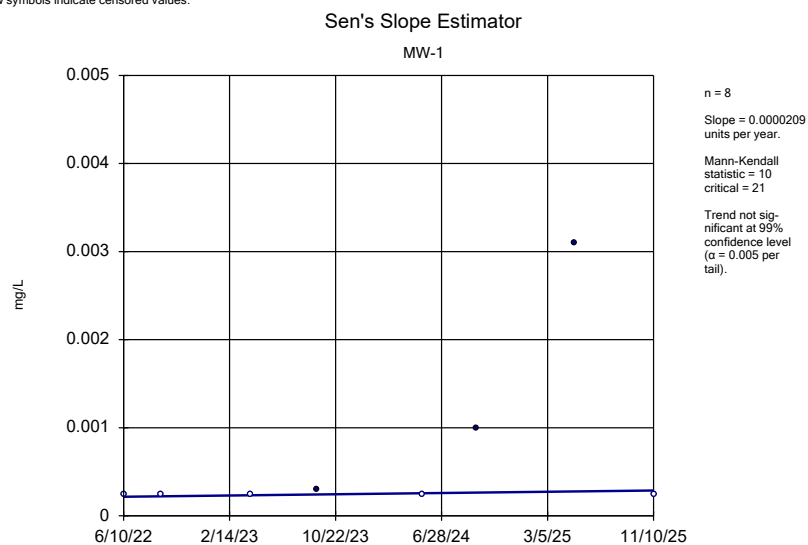




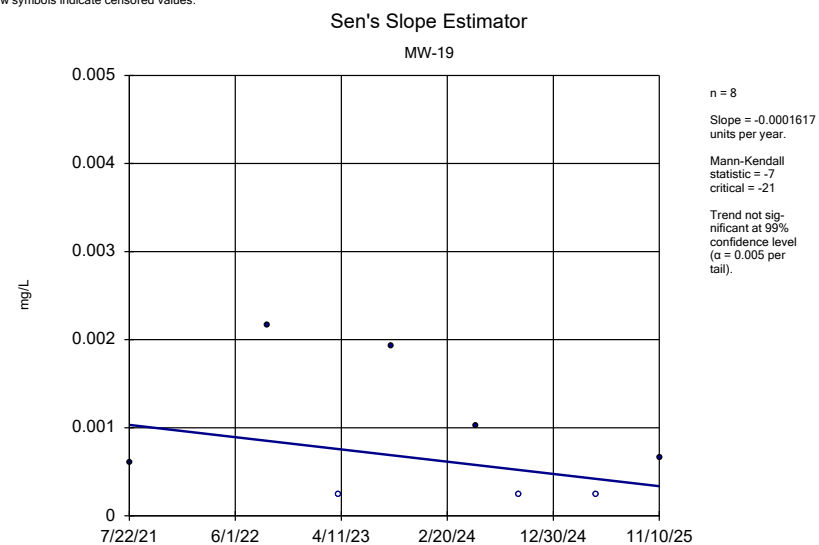
Constituent: Cobalt Analysis Run 12/3/2025 2:59 PM View: 2025_AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDN_AM_2025_AWQR



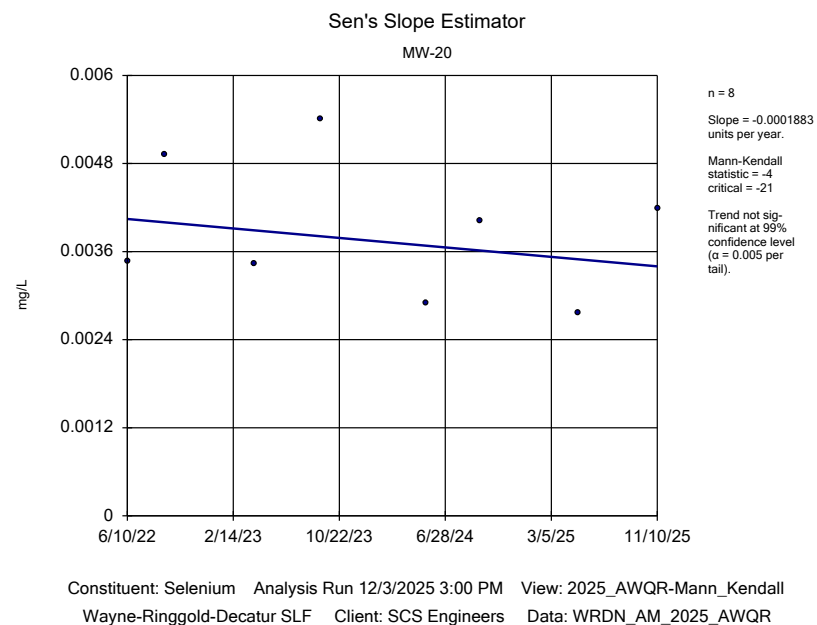
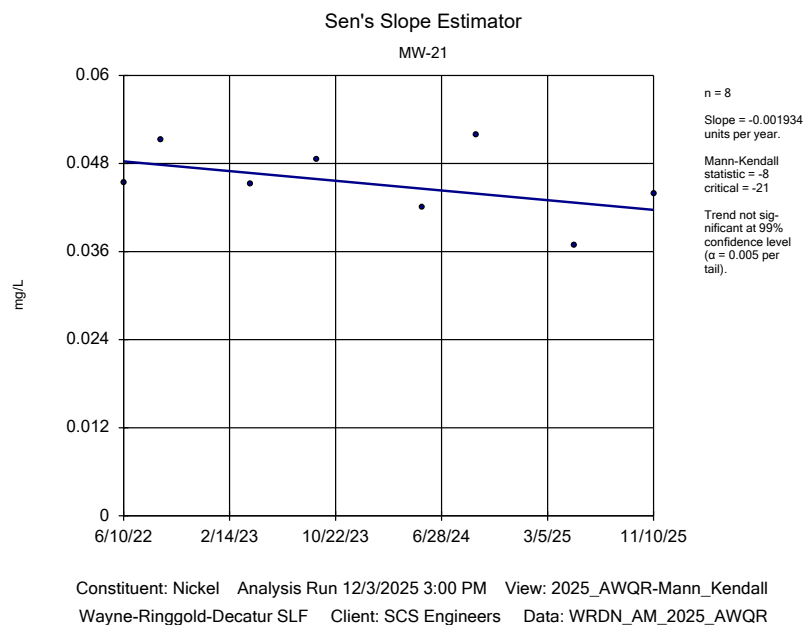
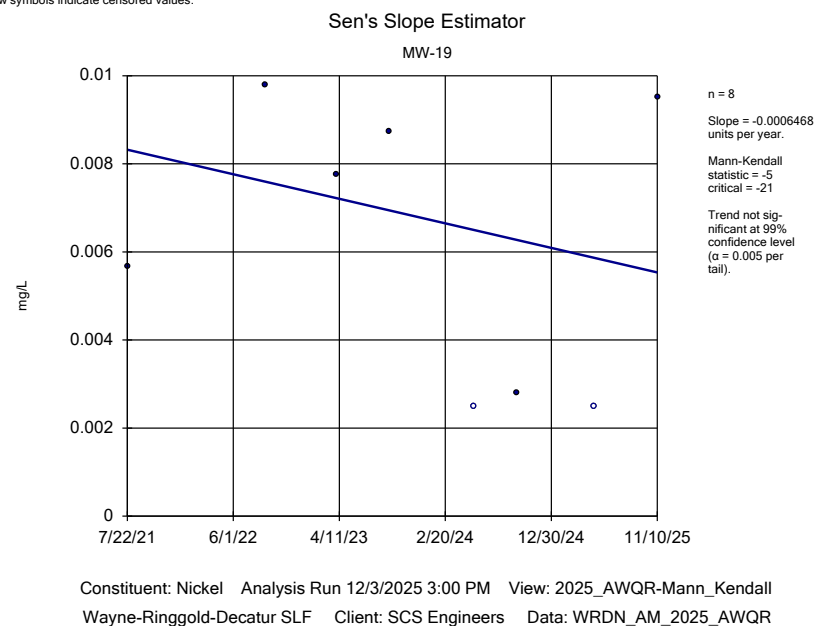
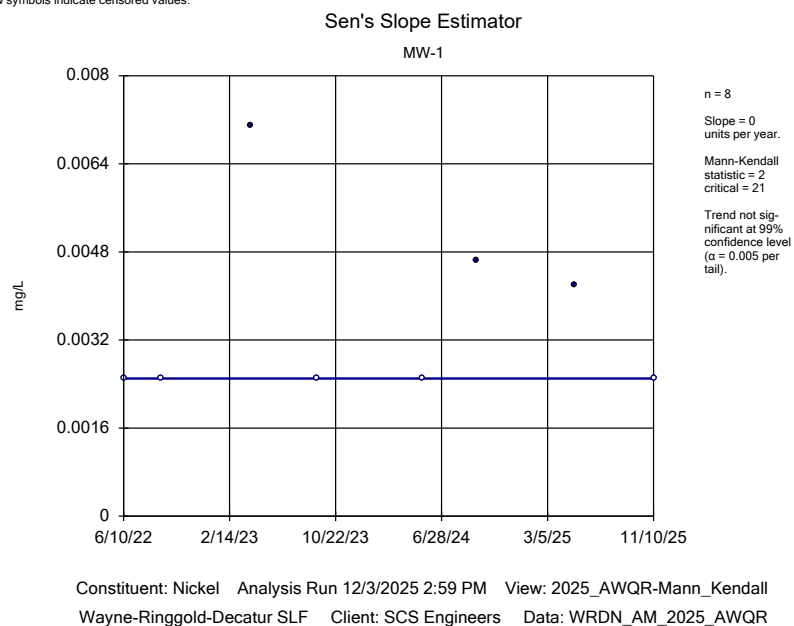
Constituent: Copper Analysis Run 12/3/2025 2:59 PM View: 2025_AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDN_AM_2025_AWQR



Constituent: Lead Analysis Run 12/3/2025 2:59 PM View: 2025_AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDN_AM_2025_AWQR

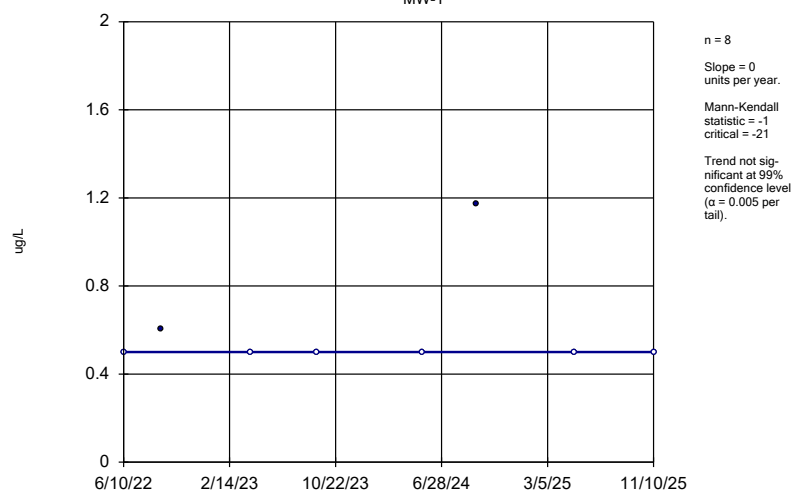


Constituent: Lead Analysis Run 12/3/2025 2:59 PM View: 2025_AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDN_AM_2025_AWQR



Sen's Slope Estimator

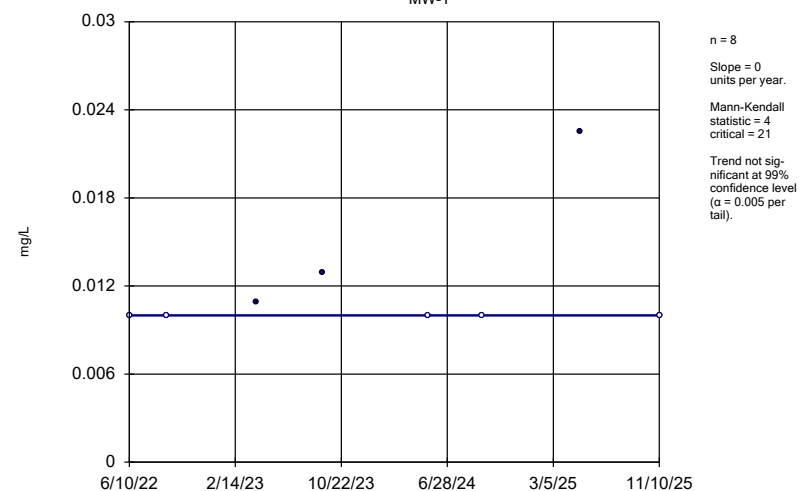
MW-1



Constituent: Toluene Analysis Run 12/3/2025 3:00 PM View: 2025_AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDN_AM_2025_AWQR

Sen's Slope Estimator

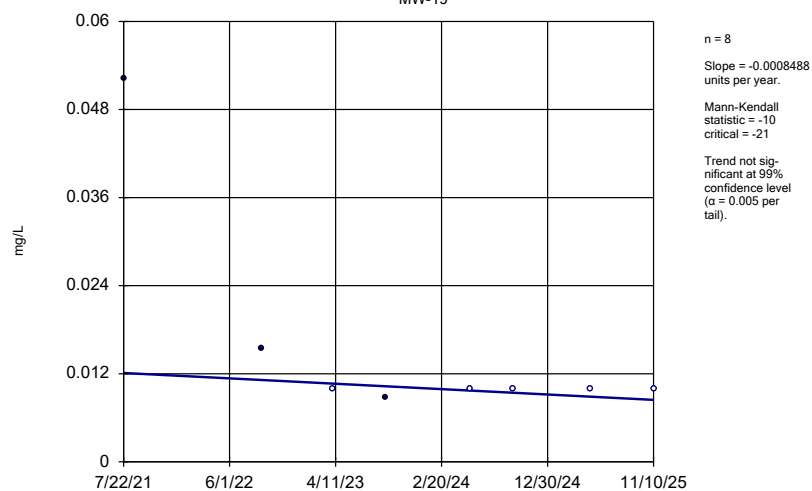
MW-1



Constituent: Zinc Analysis Run 12/3/2025 3:00 PM View: 2025_AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDN_AM_2025_AWQR

Sen's Slope Estimator

MW-19



Constituent: Zinc Analysis Run 12/3/2025 3:00 PM View: 2025_AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDN_AM_2025_AWQR



Attachment B-5

Confidence Intervals

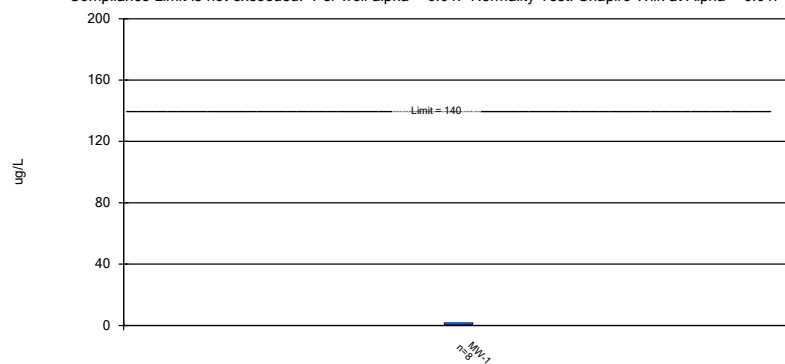
Confidence Interval

Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDN_AM_2025_AWQR Printed 12/3/2025, 3:24 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
1,1-Dichloroethane (ug/L)	MW-1	1.657	0.4359	140	No	8	0	No	0.01	Param.
Arsenic (mg/L)	MW-1	0.006019	0.000401	0.01	No	8	0	No	0.01	Param.
Arsenic (mg/L)	MW-21	0.009062	0.00378	0.01	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-1	0.7054	0.3682	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-17	0.05555	0.04701	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-19	0.1248	0.1018	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-20	0.09329	0.07373	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-21	0.5692	0.3128	2	No	8	0	No	0.01	Param.
Benzene (ug/L)	MW-1	1.063	0.3316	5	No	8	25	No	0.01	Param.
Benzene (ug/L)	MW-21	0.4946	0.2583	5	No	8	12.5	No	0.01	Param.
Beryllium (mg/L)	MW-19	0.00329	0.0005	0.004	No	8	87.5	No	0.004	NP (NDs)
Cadmium (mg/L)	MW-19	0.00124	0.0001	0.005	No	8	25	No	0.004	NP (normality)
Cadmium (mg/L)	MW-21	0.000358	0.00005	0.005	No	8	75	No	0.004	NP (NDs)
Chromium (mg/L)	MW-19	0.00876	0.00118	0.1	No	8	62.5	No	0.004	NP (NDs)
Cobalt (mg/L)	MW-1	0.001135	0.000159	0.01095	No	8	12.5	No	0.01	Param.
Cobalt (mg/L)	MW-19	0.003745	0.0003895	0.01095	No	8	12.5	No	0.01	Param.
Cobalt (mg/L)	MW-21	0.01904	0.01211	0.01095	Yes	8	0	No	0.01	Param.
Copper (mg/L)	MW-19	1.34	0.0025	1.3	No	8	12.5	No	0.004	NP (normality)
Lead (mg/L)	MW-1	0.0031	0.00025	0.015	No	8	62.5	No	0.004	NP (NDs)
Lead (mg/L)	MW-19	0.001659	0.0003122	0.015	No	8	37.5	No	0.01	Param.
Nickel (mg/L)	MW-1	0.00709	0.0025	0.1	No	8	62.5	No	0.004	NP (NDs)
Nickel (mg/L)	MW-19	0.009322	0.003143	0.1	No	8	25	No	0.01	Param.
Nickel (mg/L)	MW-21	0.05087	0.04037	0.1	No	8	0	No	0.01	Param.
Selenium (mg/L)	MW-20	0.004877	0.002897	0.05	No	8	0	No	0.01	Param.
Toluene (ug/L)	MW-1	1.17	0.5	1000	No	8	75	No	0.004	NP (NDs)
Zinc (mg/L)	MW-1	0.0225	0.01	2	No	8	62.5	No	0.004	NP (NDs)
Zinc (mg/L)	MW-19	0.0523	0.00881	2	No	8	62.5	No	0.004	NP (NDs)

Parametric Confidence Interval

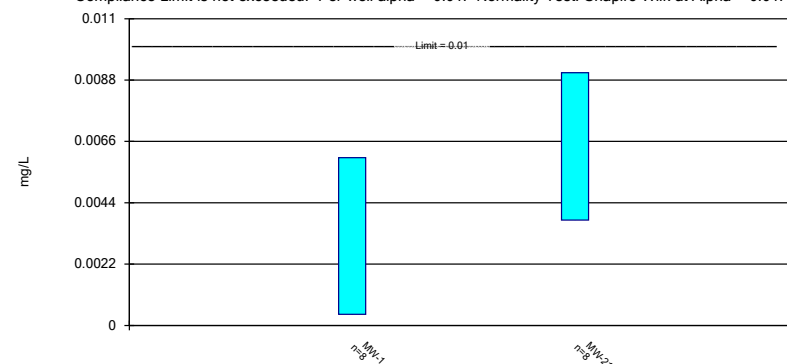
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: 1,1-Dichloroethane Analysis Run 12/3/2025 3:22 PM View: 2025_AWQR-Confidence_Interva
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDN_AM_2025_AWQR

Parametric Confidence Interval

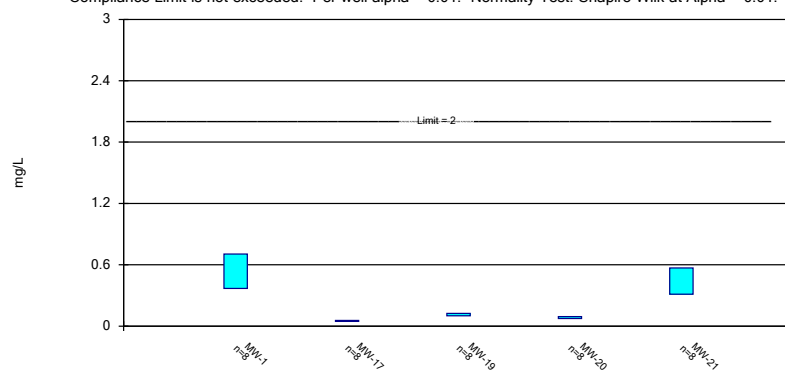
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Arsenic Analysis Run 12/3/2025 3:22 PM View: 2025_AWQR-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDN_AM_2025_AWQR

Parametric Confidence Interval

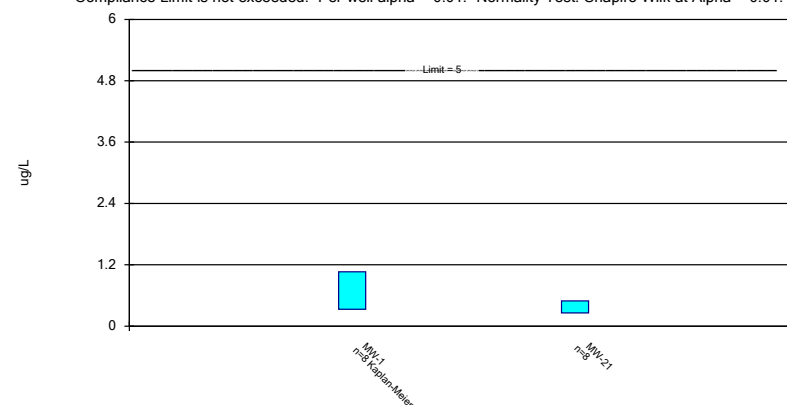
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



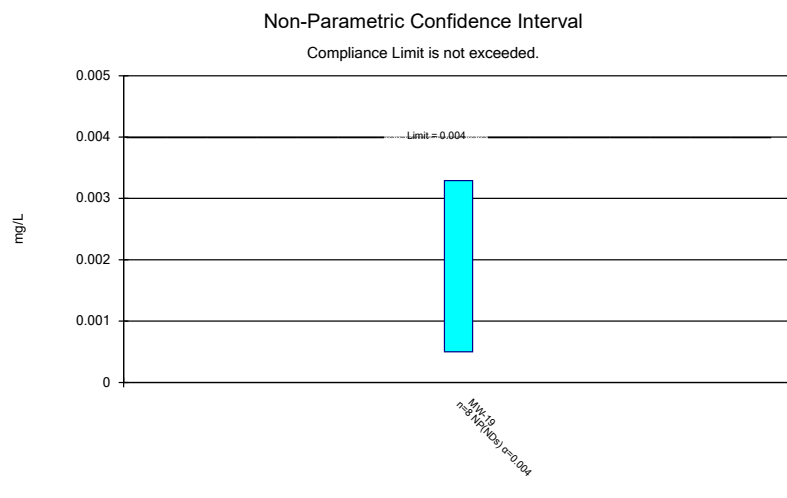
Constituent: Barium Analysis Run 12/3/2025 3:22 PM View: 2025_AWQR-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDN_AM_2025_AWQR

Parametric Confidence Interval

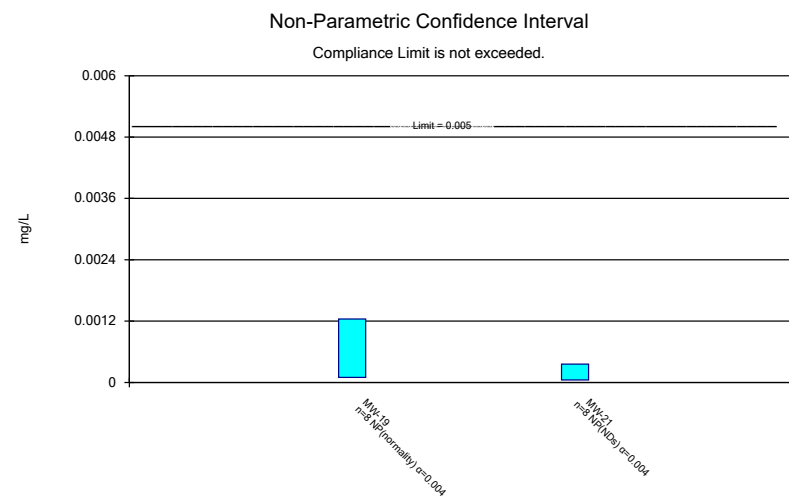
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



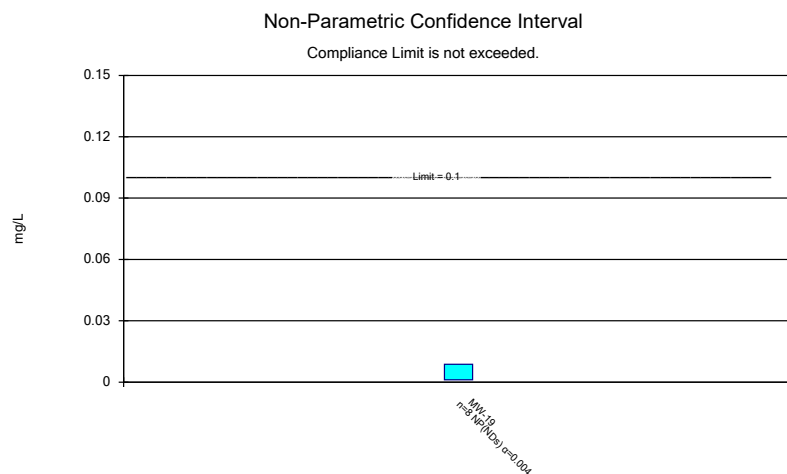
Constituent: Benzene Analysis Run 12/3/2025 3:22 PM View: 2025_AWQR-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDN_AM_2025_AWQR



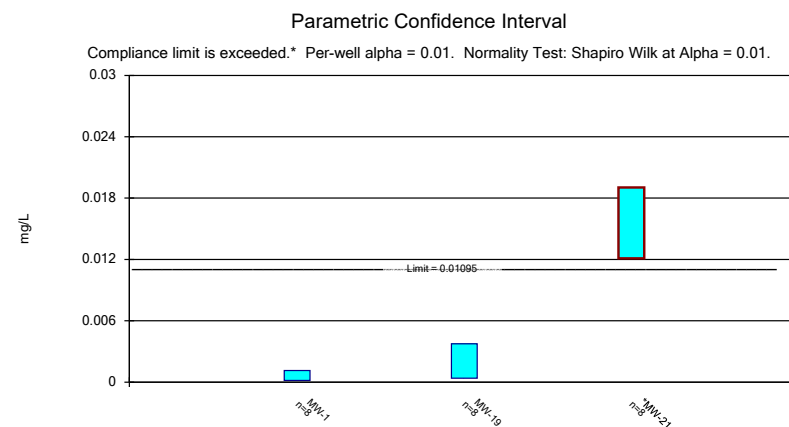
Constituent: Beryllium Analysis Run 12/3/2025 3:22 PM View: 2025_AWQR-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDN_AM_2025_AWQR



Constituent: Cadmium Analysis Run 12/3/2025 3:22 PM View: 2025_AWQR-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDN_AM_2025_AWQR



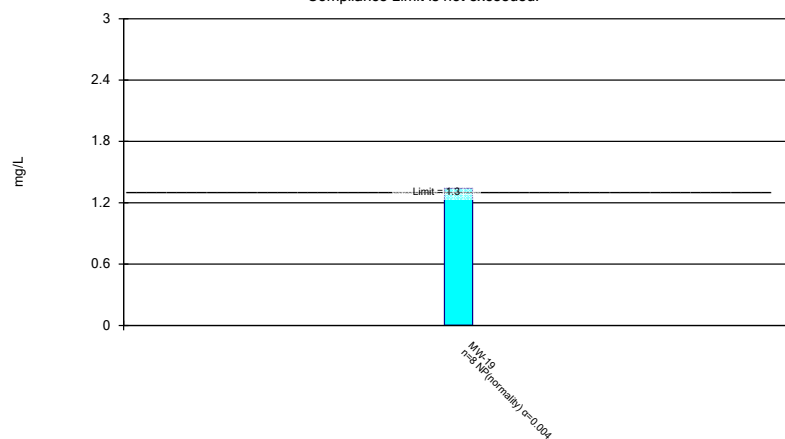
Constituent: Chromium Analysis Run 12/3/2025 3:22 PM View: 2025_AWQR-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDN_AM_2025_AWQR



Constituent: Cobalt Analysis Run 12/3/2025 3:22 PM View: 2025_AWQR-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDN_AM_2025_AWQR

Non-Parametric Confidence Interval

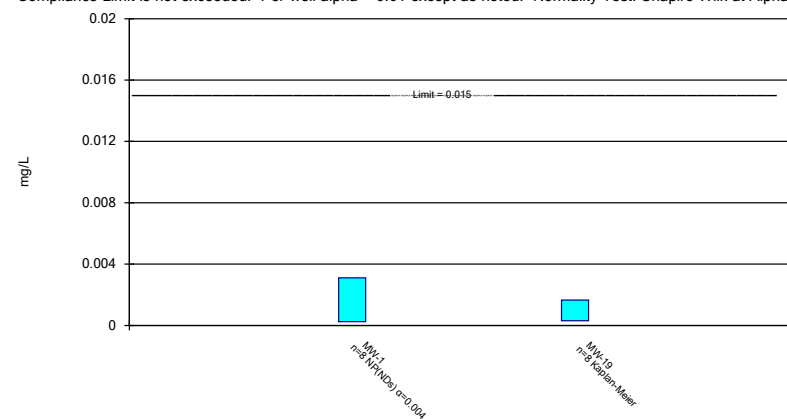
Compliance Limit is not exceeded.



Constituent: Copper Analysis Run 12/3/2025 3:22 PM View: 2025_AWQR-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDN_AM_2025_AWQR

Parametric and Non-Parametric (NP) Confidence Interval

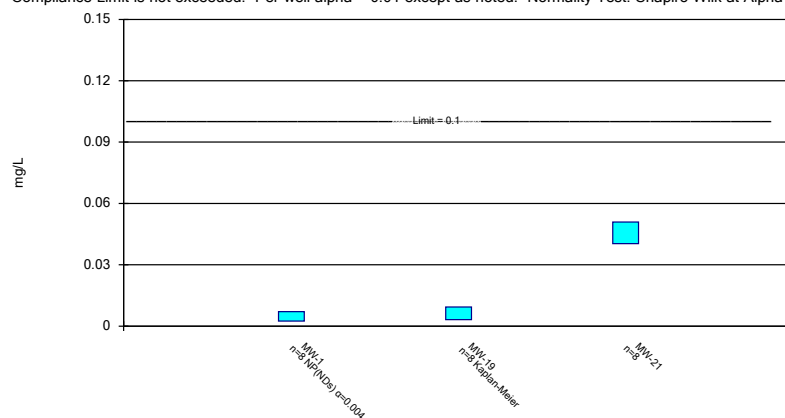
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Lead Analysis Run 12/3/2025 3:22 PM View: 2025_AWQR-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDN_AM_2025_AWQR

Parametric and Non-Parametric (NP) Confidence Interval

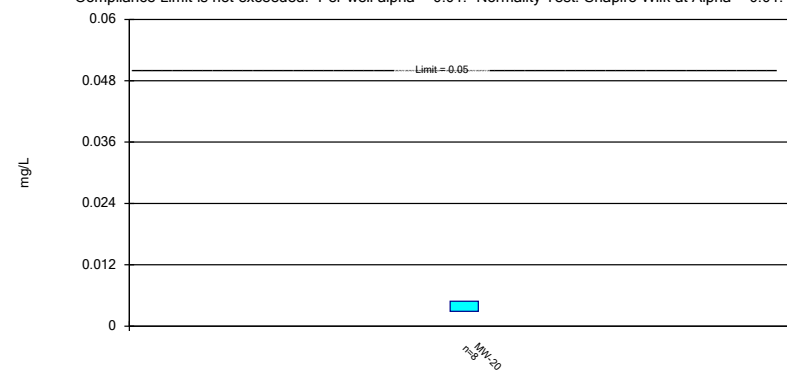
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



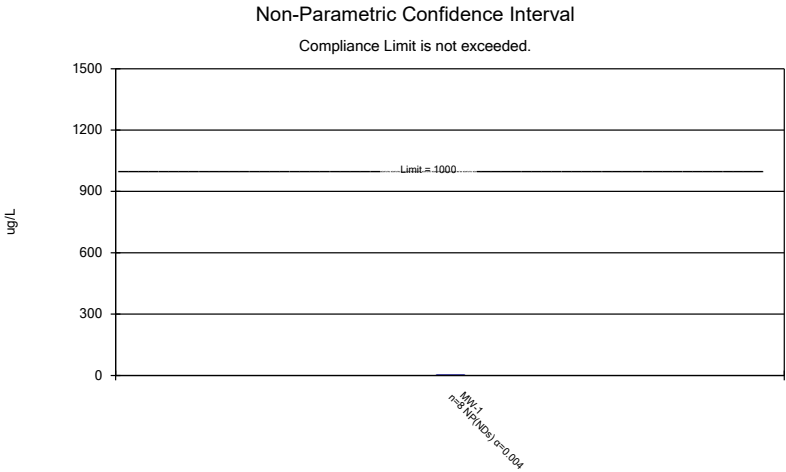
Constituent: Nickel Analysis Run 12/3/2025 3:23 PM View: 2025_AWQR-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDN_AM_2025_AWQR

Parametric Confidence Interval

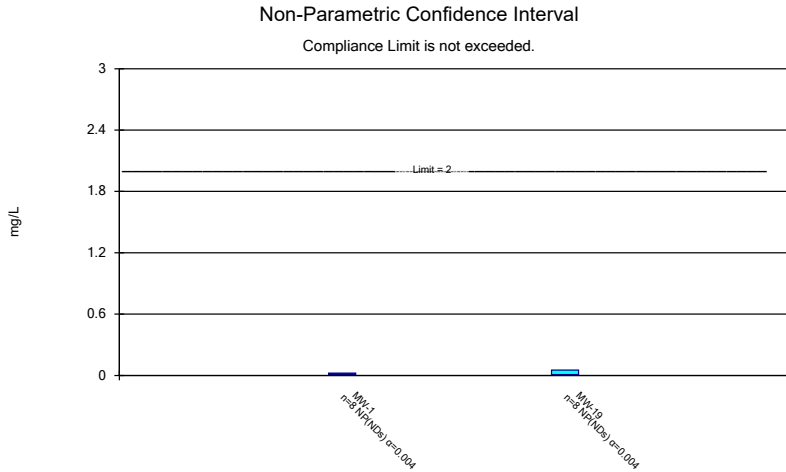
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Selenium Analysis Run 12/3/2025 3:23 PM View: 2025_AWQR-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDN_AM_2025_AWQR



Constituent: Toluene Analysis Run 12/3/2025 3:23 PM View: 2025_AWQR-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDN_AM_2025_AWQR

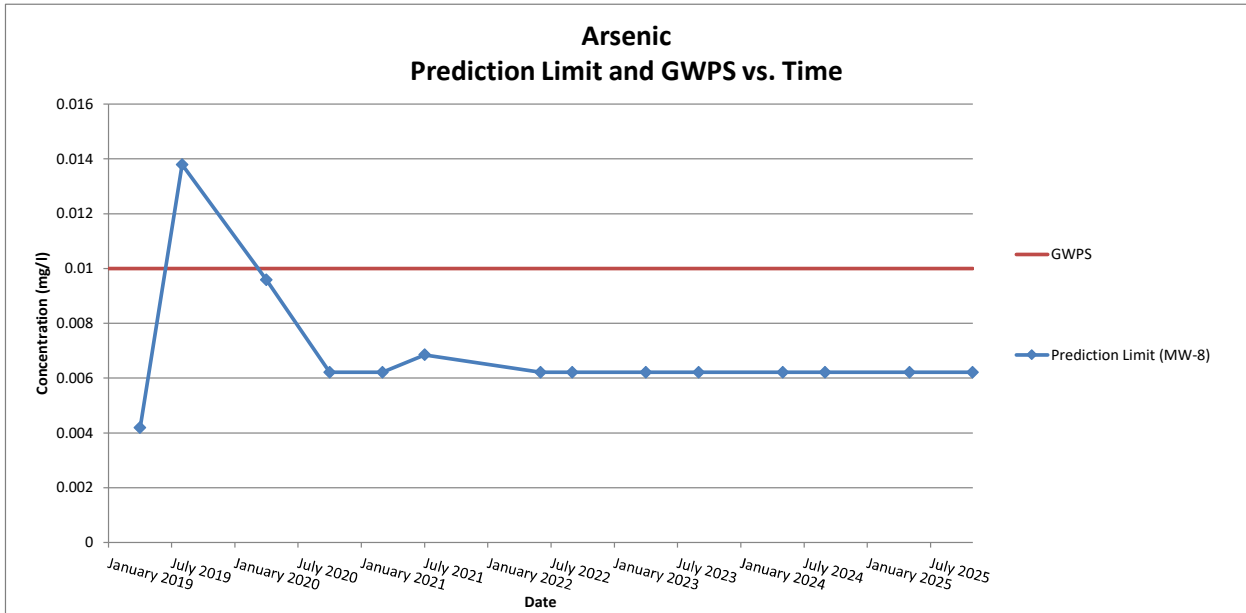
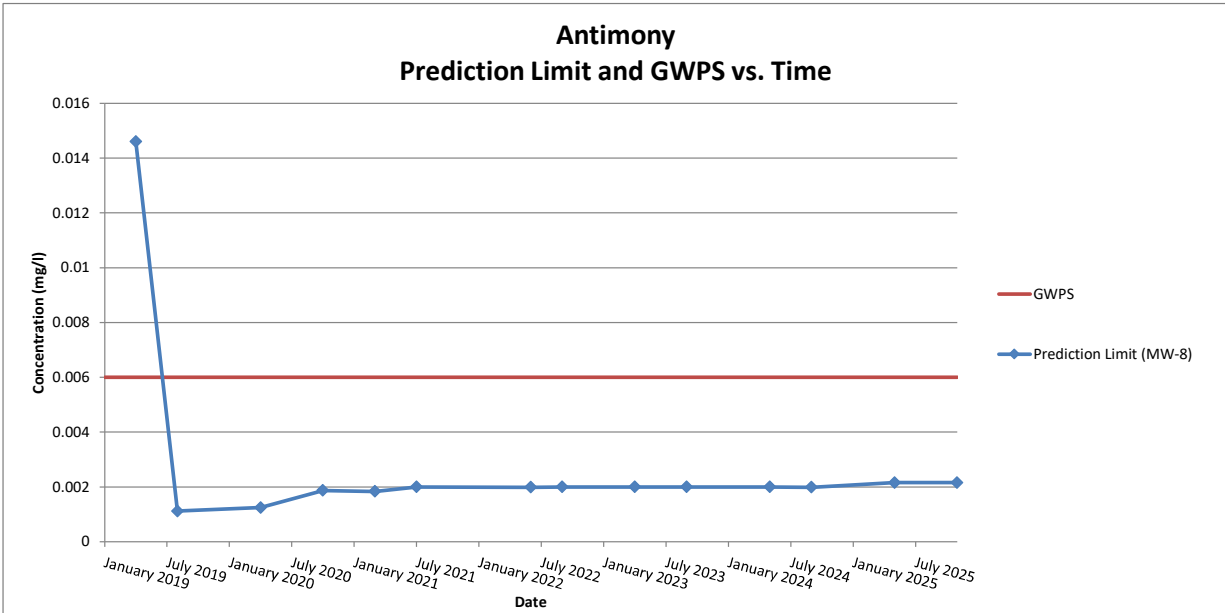


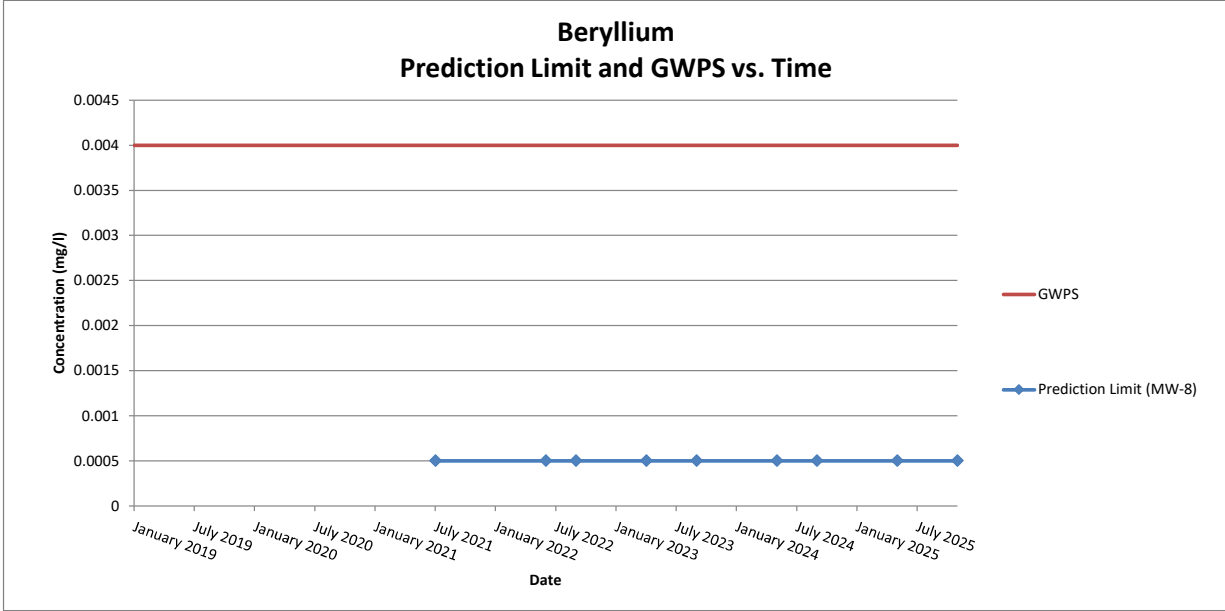
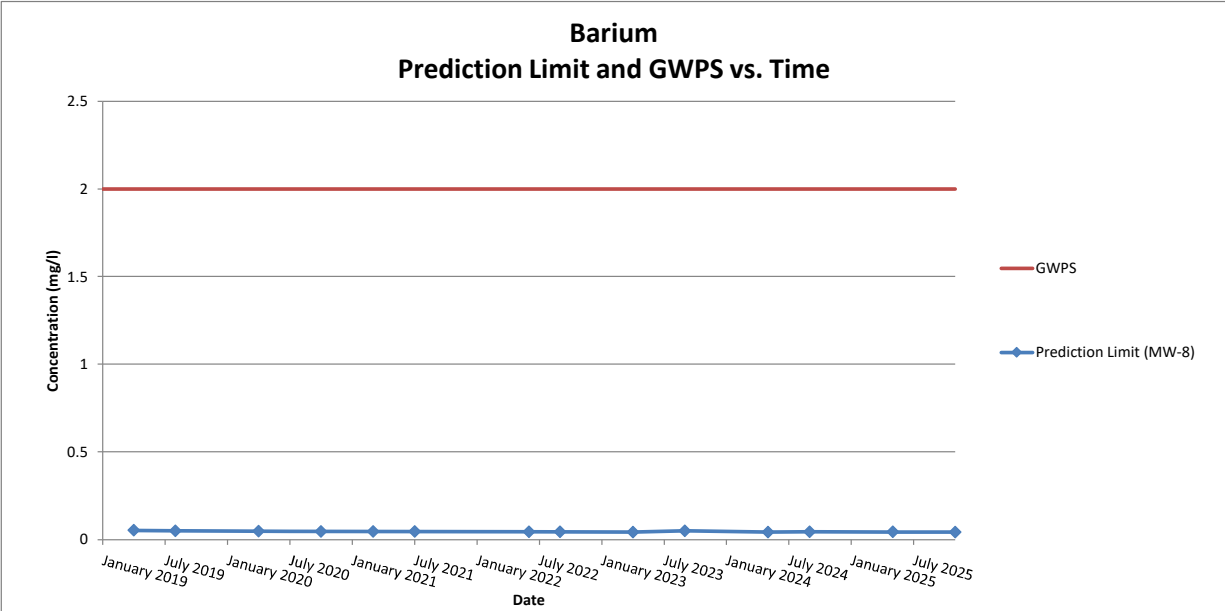
Constituent: Zinc Analysis Run 12/3/2025 3:23 PM View: 2025_AWQR-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDN_AM_2025_AWQR



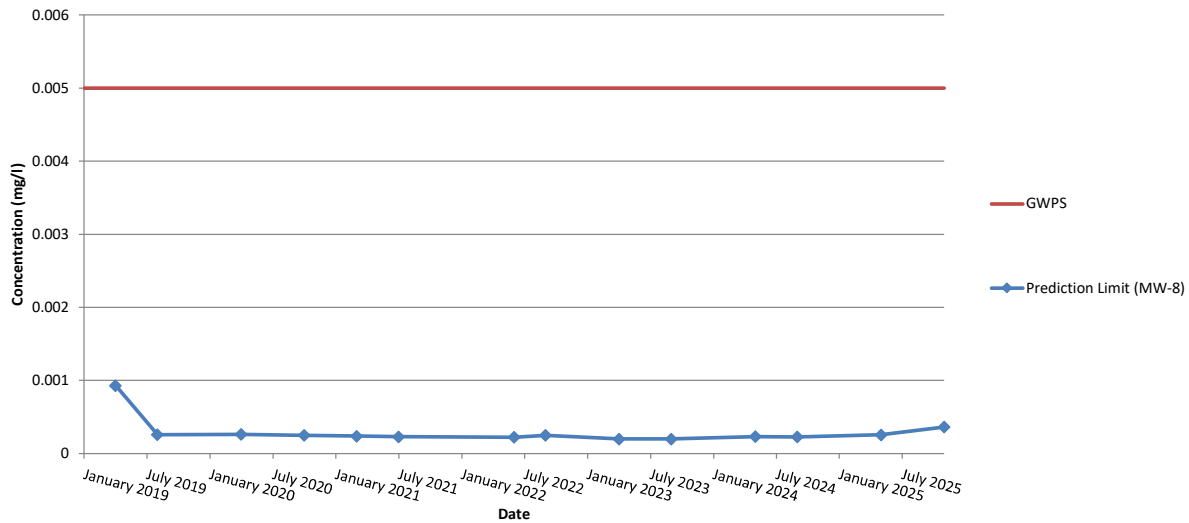
Appendix E

Standards History Graphs

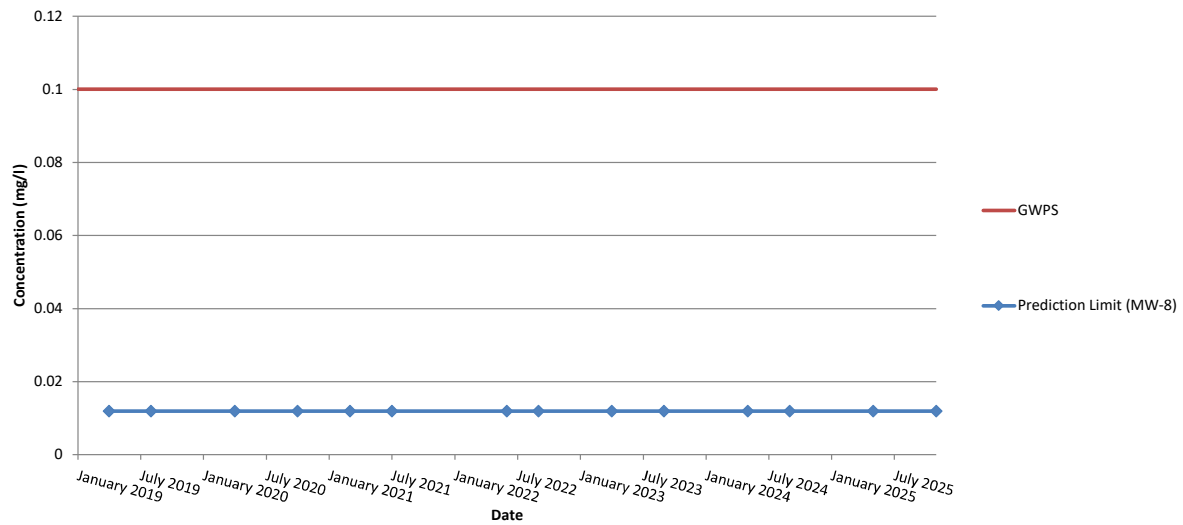


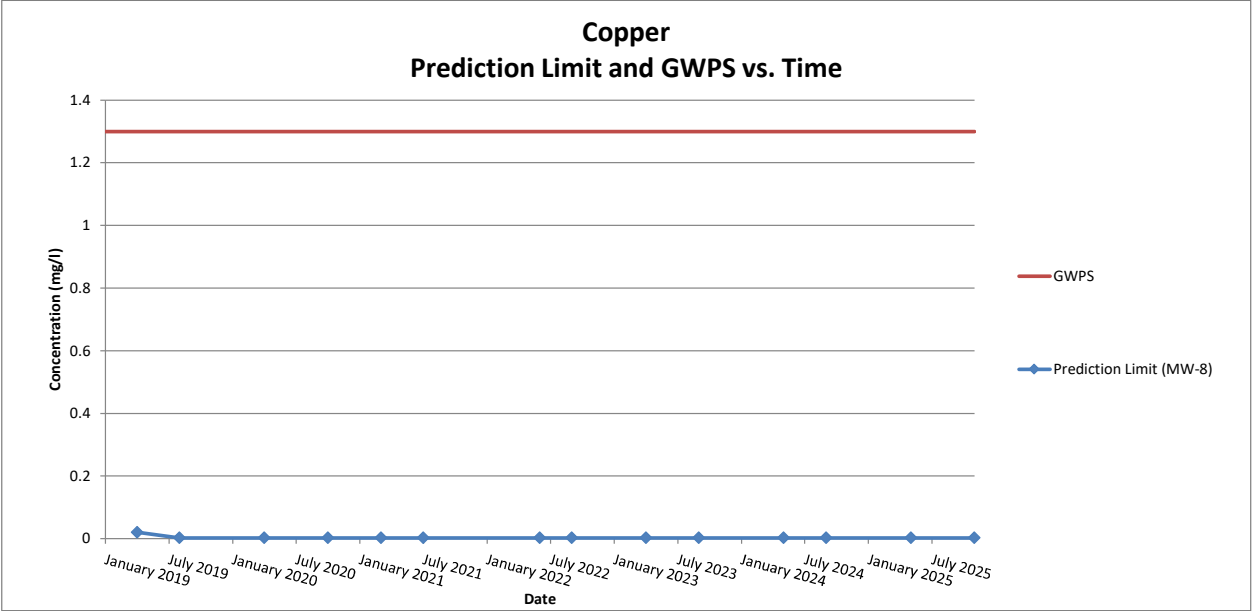
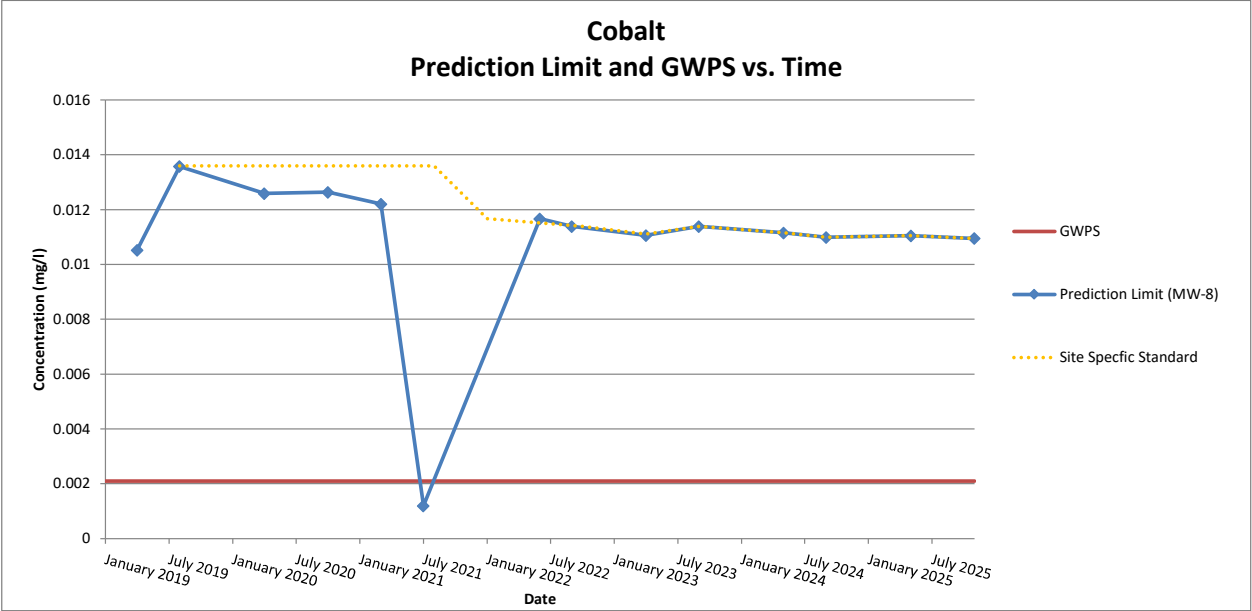


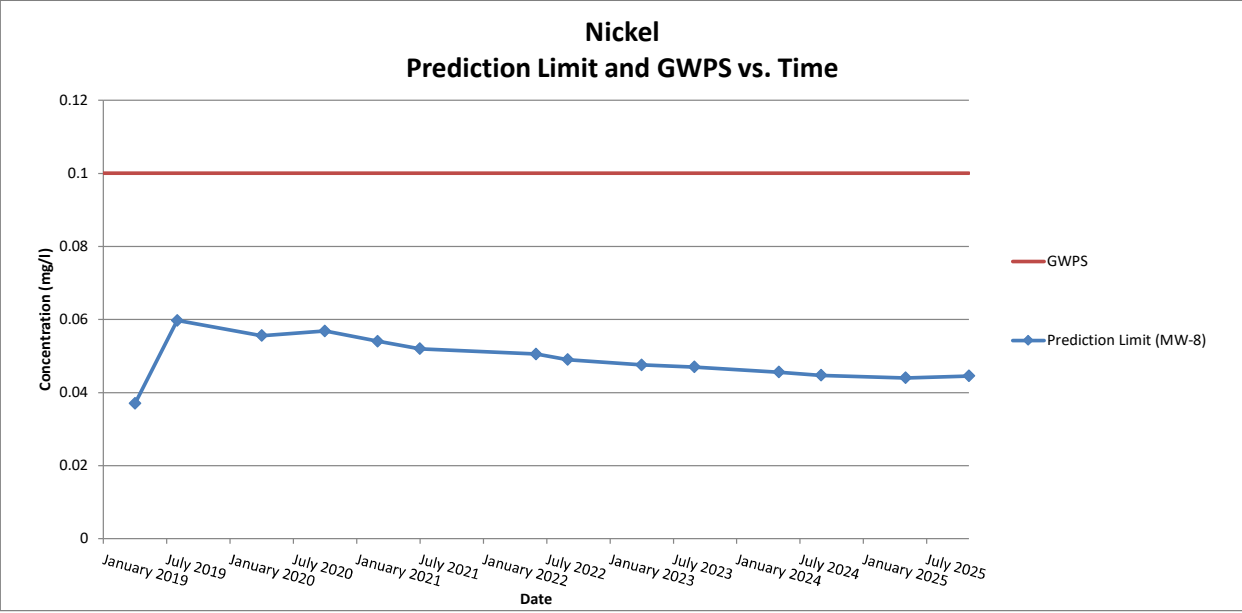
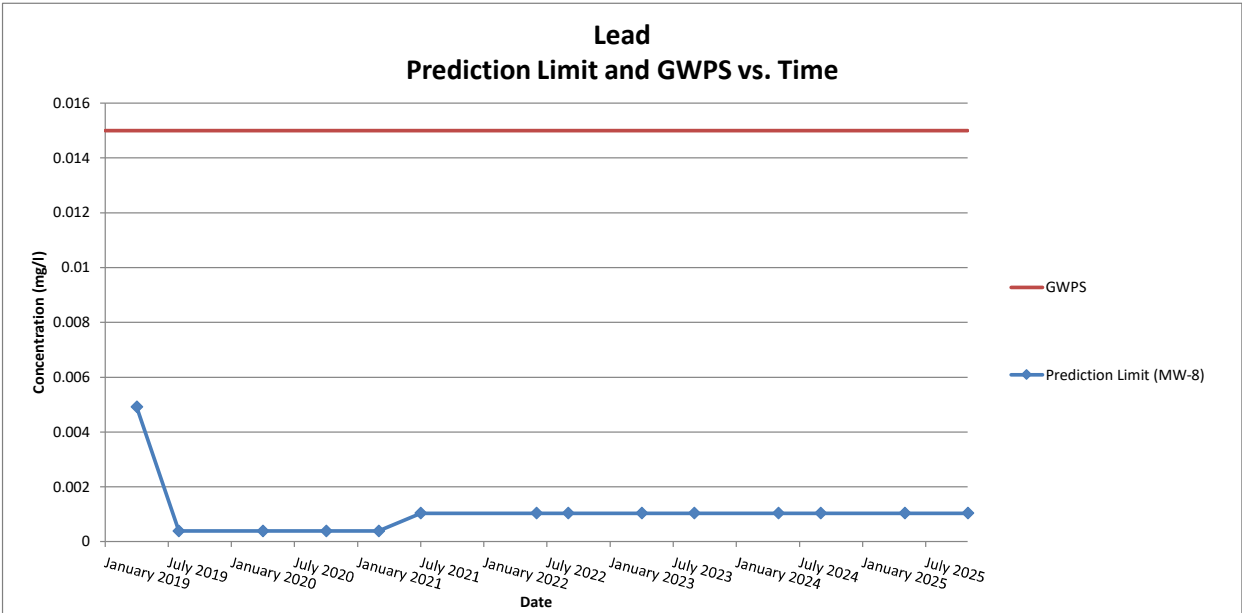
Cadmium
Prediction Limit and GWPS vs. Time



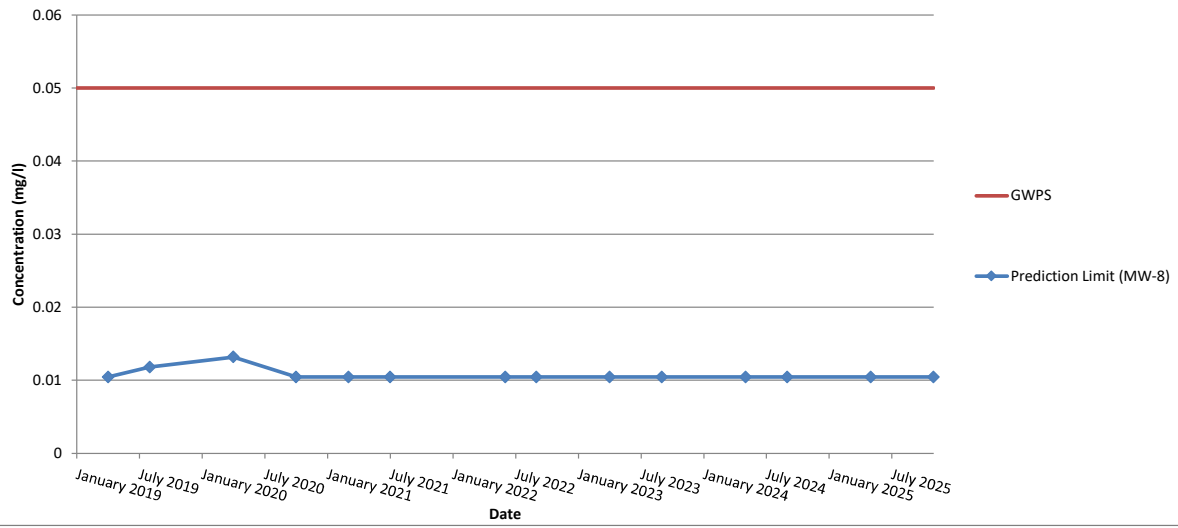
Chromium
Prediction Limit and GWPS vs. Time



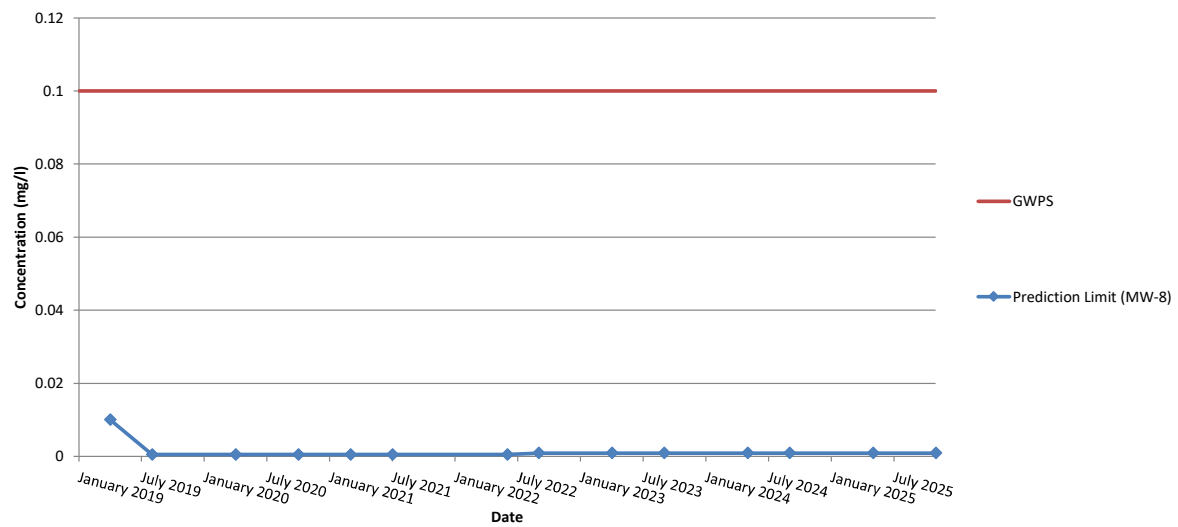


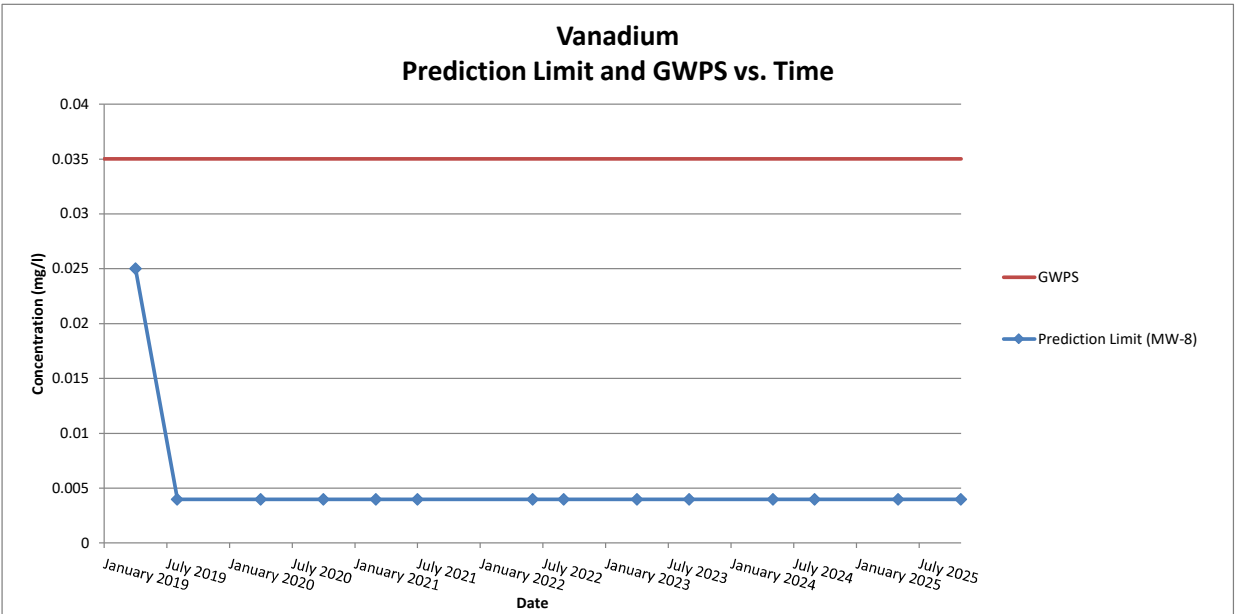
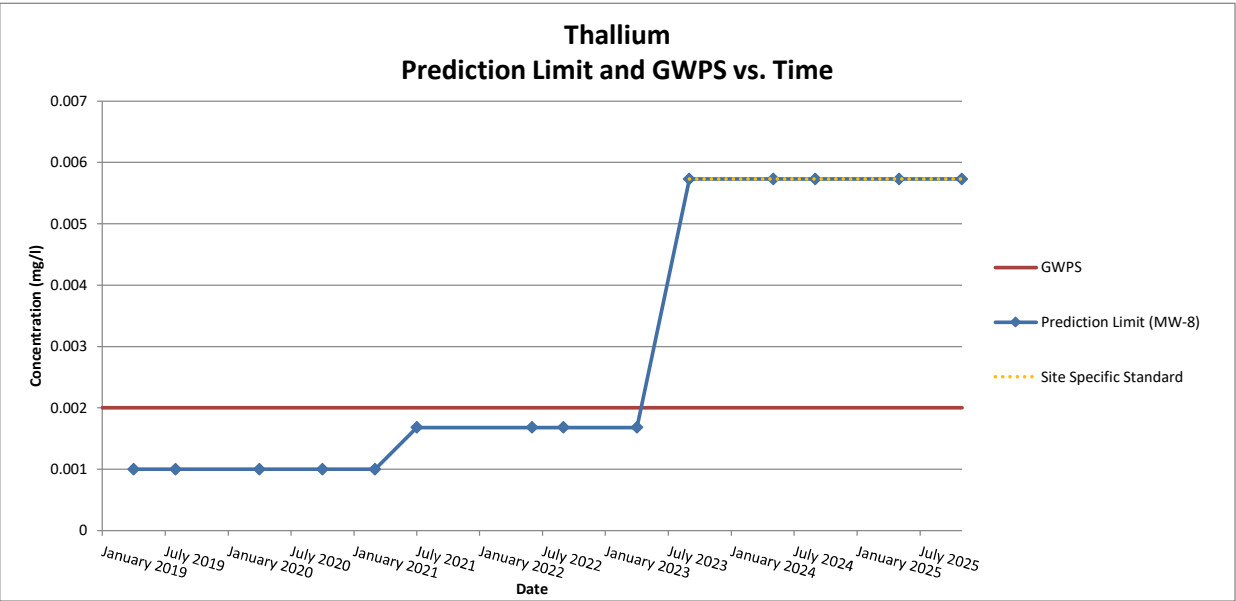


Selenium Prediction Limit and GWPS vs. Time



Silver Prediction Limit and GWPS vs. Time





Zinc Prediction Limit and GWPS vs. Time

