

West Des Moines, IA

PROJECT: Sac County, FY26 Env Comp, IA 27225365.26 DATE: 1/24/2026

SUBJECT: Sac County Sanitary Landfill - 81-SDP-01-75C - 2025 Annual Water Quality Report, Leachate Control System Performance Evaluation Report, and Landfill Gas Annual Report TRANSMITTAL ID: 00003

PURPOSE: For your approval VIA: Info Exchange

FROM

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TO

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

REMARKS: Mike -

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

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Transmittal

DATE: 1/24/2026
TRANSMITTAL ID: 00003

DESCRIPTION OF CONTENTS

QTY	DATED	TITLE	NOTES
1	1/24/2026	Sac County Sanitary Landfill - 81-SDP-01-75 - 2025 AWQR.LCSPER.MMR 01.24.2026.pdf	

COPIES:

Becky Jolly	
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Semir Omerovic	(SCS Engineers)
Sean Marczewski	(SCS Engineers)

January 24, 2026
File No. 27225365.26

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

Subject: 2025 Annual Water Quality Report, Leachate Control System Performance Evaluation
Report, and Landfill Gas Annual Report
Sac County Sanitary Landfill
Permit No. 81-SDP-01-75C

Dear Mike:

SCS Engineers, on behalf of the Sac County Solid Waste Agency, has completed the required groundwater monitoring and statistical evaluation for the Sac County Sanitary Landfill (Landfill) for the year 2025. Services were performed in general accordance with applicable sections of 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.

Additionally, an evaluation of the leachate control system and gas monitoring results for the Landfill are included in accordance with IAC 567-113.7(5)"b"(14) and 113.9(2)"d," respectively. The 2025 Leachate Control System Performance Evaluation Report and the 2025 Landfill Gas Annual Report for the Landfill are included as appendices to the Annual Water Quality Report.

Please contact us if you have any questions or need additional information regarding the attached reports.

Sincerely,



Semir Omerovic
Associate Professional
SCS Engineers



Sean Marczewski
Senior Project Professional
SCS Engineers

SO/SAM

Copies: Jim Wissler, Chairman, Sac County Solid Waste Agency





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

Sac County Sanitary Landfill
Solid Waste Permit No. 81-SDP-01-75C

Prepared for:

Sac County Solid Waste Agency

SCS ENGINEERS

27225365.26 | January 2026

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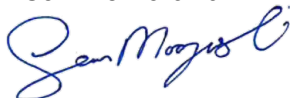
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CERTIFICATION

Prepared by:  Date: January 24, 2026

Typed: Semir Omerovic

Reviewed by:  Date: January 24, 2026

Typed: Sean Marczewski

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

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

EXECUTIVE SUMMARY

ES.1 PERIOD OF REPORT COVERAGE

The period of report coverage is from December 2024 – December 2025

ES.2 REPORT PRIORITY

The following summarizes report priorities associated with groundwater compliance at the Sac County Sanitary Landfill (Landfill):

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

ES.3 SITE STATUS AND APPLICABLE RULES

- Landfill Status: Closed
- Types of waste accepted: None, Landfill closed.
- Applicable IAC rules: 2009 567-113.10

ES.4 COMMENTS

The following summarizes points of special emphasis:

There were six monitoring well/detected constituent pairs with indicated statistically significant increases (SSIs) above background. The monitoring wells are in assessment monitoring and do not require a resample; therefore, the SSIs were not confirmed. Assessment monitoring will continue for monitoring wells MW-5R, MW-6R, MW-10, MW-12, MW-13, MW-14, and MW-15R, and background monitoring for monitoring wells MW-1 and MW-2.

ACRONYMS/ABBREVIATIONS

ACM = Assessment of Corrective Measures
C&D = Construction and Demolition Waste
CAMP = Corrective Action Groundwater Monitoring Program
CCV = Continuing Calibration Verification
CL = Control Limit - Mean plus Two Standard Deviations
COC = Chain of Custody
DNR = Iowa Department of Natural Resources
DO = Dissolved Oxygen
DQR = Double Quantification Rule
GWPS = Groundwater Protection Standard
LEL = Lower Explosive Limit
LCL = Lower Confidence Limit
LCS = Laboratory Control Sample
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

1.0 SITE BACKGROUND

1.1 SITE LOCATION

The Landfill property is depicted in **Figure 1**, Approved Monitoring Network. The Landfill is located along 260th Street, approximately 6.5 miles west of Sac City, Iowa. The Landfill property consists of approximately 40 acres and is located in the SE $\frac{1}{4}$ of the NW $\frac{1}{4}$ and of Section 25, T88N, R37W, in Sac County, Iowa. Sac County also owns the adjacent 80 acres north of the Landfill property.

1.2 FACILITY

The Sac County Solid Waste Agency operated a sanitary landfill at its present location since it was first permitted in 1975. The original 40-acre landfill development included nine direct burial trench cells. A vertical expansion over the completed trench cells was developed and began operation in May of 1993. Landfilling operations continued in accordance with the Vertical Expansion Plans dated December 30, 1992, until August 2007. The development of Cells 7A and 7B was completed in July 2007. Landfilling operations in the new cells began on August 22, 2007, and continued until 2016. Closure construction for the sanitary landfill began in Summer 2017 and the closure permit was issued in September 2017 (Doc #90298).

1.3 GEOLOGY AND HYDROGEOLOGY OF THE SITE

Information presented in the 2013 AWQR (Doc #79415) summarized the site hydrology and geology as follows:

The area in the vicinity of the landfill consists of relatively complex terrain resulting from glacial processes. The highest elevation at the site is 1,385 feet, which occurs along the west property line near the central portion of the landfill. A ridge runs in an easterly direction across the center portion of the site with ground surfaces falling off to the north, east, and south on the order of 40 to 70 feet. The lowest elevation on the property occurs at the southeast corner of the site. This elevation is approximately 1,318 feet. Surface runoff at the landfill may best be described as radial flow from the ridge which crosses the center of the site in an east-west direction. All flow from the site eventually finds its way to Indian Creek, which is approximately 1,000 feet east of the landfill property line. A waterway which intercepts the surface water flow from the northern half of the landfill property runs generally along the northern property line at an approximate elevation of 1,360 feet in the west to 1,337 feet, where it exits the property in the northeast corner. A farm drainage tile has been laid along this waterway to facilitate surface and groundwater drainage. Indian Creek is the outlet to this tile line.

The overlying unconsolidated materials of Sac County, Iowa consist of glacial drift deposits from three separate episodes of Pleistocene glaciations. These include the Wisconsin, Kansas, and Nebraskan episodes in order of increasing age of the deposits. The youngest of these deposits, the Wisconsin, has controlled the topography and geomorphology of Sac County. The combined thickness of the three units ranges from less than 100 feet to 500 feet within Sac County. In general, the units consist of a thin, loess mantle in some areas with glacial till below and interbedded sand and gravel units in some areas.

2.0 FIGURES DISCUSSION

The following figures are attached.

2.1 FIGURE 1 – APPROVED MONITORING NETWORK

The Landfill property and hydrologic monitoring system plan (HMSP) network are 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.

2.2 FIGURE 2 – GROUNDWATER CONTOURS

A groundwater contour map based on water levels measured during the May 2025 sampling event is included as **Figure 2**. Groundwater flow is generally to the east and southeast beneath the MSWLF unit. The flow direction is generally consistent with previous groundwater contour maps. It does not appear that significant changes to the hydrologic setting or flow paths have occurred since the last reporting period.

3.0 STANDARDS HISTORY GRAPHS

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

- Arsenic
- Barium
- Cadmium
- Cobalt
- Copper
- Lead
- Nickel
- Selenium
- Thallium
- Vanadium
- Zinc

Graphs were not included for antimony, beryllium, chromium, and silver as sampling for these constituents was discontinued in accordance with DNR comment letter (Doc #111645) dated January 3, 2025.

The prediction limits were below the GWPS with the exceptions of cobalt, lead, and thallium. The GWPS values, where applicable, were updated to reflect the calculated prediction limit concentrations.

4.0 QA/QC SUMMARY

The quality assurance/quality control (QA/QC) program for the Landfill 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 was generated. The QA review procedure provided documentation of the accuracy and precision of the analytical data and confirmed that the analyses were sufficiently sensitive to detect constituents at levels below regulatory standards when technically feasible with the laboratory method utilized. SCS 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.

5.0 ANALYTICAL DATA EVALUATION

Assessment monitoring statistical analyses in accordance with the requirements of IAC 567-113.10(6) were conducted for the groundwater analytical data collected during the 2025 reporting period semi-annual sampling events. The statistical evaluations for samples collected during this reporting period are located in **Appendix D**.

Groundwater monitoring for the Landfill consists of ten monitoring points, with background wells MW-1 and MW-2 located west and north, respectively, of the Landfill. Compliance monitoring points are located along the east and south boundaries.

5.1 DATA EVALUATION

One volatile organic compound (VOC) and multiple site-wide maximum metals were detected during the 2025 semi-annual sampling events with the majority being located on the eastern and southern side of the Landfill. The three inorganic constituents with an SSI occurred in monitoring well MW-6R on the eastern side of the Landfill.

One VOC concentration was detected in monitoring well MW-15R, located south of the Landfill.

Monitoring wells MW-10 and MW-12, located south-southwest of the Landfill, and monitoring well MW-5R, located northeast of the Landfill, appear to be generally not impacted.

6.0 RECOMMENDATIONS

6.1 SITE IMPACT ON GROUNDWATER

Groundwater impact at the Landfill appears limited with the only VOC detection above the laboratory report limits measured in samples collected from monitoring well MW-15R. There are currently no monitoring well/constituent pairs with statistically significant levels (SSLs) above a GWPS.

6.2 PROPOSED MONITORING

No proposed changes to the monitoring plan are recommended at this time.

6.3 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
Sac County Sanitary Landfill
Permit No. 81-SDP-01-75C

Monitoring Well	Formation ⁽¹⁾	Current Monitoring Program	Change for Next Sampling Event	SSIs	SSLs	Total Number of Samples in Each Monitoring Program		
						Detection	Assessment	Pre-Corrective Action
MW-1	Sand/Lean Clay	Background	None	Not applicable	Not applicable	38	-	-
MW-2	Sand/Lean Clay	Background	None	Not applicable	Not applicable	39	-	-
MW-5R	Lean Clay	Assessment	None	None	None	-	31	-
MW-6R	Sandy Lean Clay	Assessment	None	Arsenic, Cobalt, Nickel	None	-	28	-
MW-10	Sandy Lean Clay	Assessment	None	None	None	-	39	-
MW-12	Sandy/ Sandy Lean Clay	Assessment	None	None	None	-	39	-
MW-13	Silty Clay/Sandy Clay	Assessment	None	None	None	-	34	-
MW-14	Silty Clay/Clay	Assessment	None	None	None	-	34	-
MW-15R	Silty Clay	Assessment	None	cis-1,2-Dichloroethene	None	-	31	-
GWD-1	Underdrain	Treated with Leachate	None	None	Not applicable	-	12	-

Notes:

1) Obtained from screened interval on boring logs.

2) Indicated SSIs for wells in the assessment monitoring program are not confirmed as retesting is not performed for wells in the assessment monitoring program.

SSL - Statistically Significant Level above groundwater protection standard.

SSI - Statistically Significant Increase above background level.

Table 2
Monitoring Program Implementation Schedule
2025 Annual Water Quality Report
Sac County Sanitary Landfill
Permit No. 81-SDP-01-75C

Monitoring Well	Recent Sampling Dates and Constituents		Upcoming Sampling Dates and Constituents		Full Appendix II Sample Dates	
	May 1, 2025	July 7, 2025	1 st 2026 Semi-Annual	2 nd 2026 Semi-Annual	Previously Collected	Next Event
MW-1	Appendix I VOCs, Metal List, TSS	Appendix I VOCs, Metals List, TSS	Appendix I VOCs, Metal List, TSS	Appendix I VOCs, Metals List, TSS	NA	NA
MW-2	Appendix I VOCs, Metal List, TSS	Appendix I VOCs, Metals List, TSS	Appendix I VOCs, Metal List, TSS	Appendix I VOCs, Metals List, TSS	NA	NA
MW-5R	Appendix I VOCs, Metal List, TSS	Appendix I VOCs, Metals List, TSS	Appendix I VOCs, Metal List, TSS	Appendix I VOCs, Metals List, TSS	6/27/2017, 2/13/2018, 6/6/2023	2028
MW-6R	Appendix I VOCs, Metal List, TSS	Appendix I VOCs, Metals List, TSS	Appendix I VOCs, Metal List, TSS	Appendix I VOCs, Metals List, TSS	1/6/2012, 4/24/2013, 2/13/2018, 6/6/2023	2028
MW-10	Appendix I VOCs, Metal List, TSS	Appendix I VOCs, Metals List, TSS	Appendix I VOCs, Metal List, TSS	Appendix I VOCs, Metals List, TSS	4/24/2013, 3/26/2014, 4/4/2019, 3/6/2024	2029
MW-12	Appendix I VOCs, Metal List, TSS	Appendix I VOCs, Metals List, TSS	Appendix I VOCs, Metal List, TSS	Appendix I VOCs, Metals List, TSS	4/24/2013, 3/26/2014, 4/4/2019, 3/6/2024	2029
MW-13	Appendix I VOCs, Metal List, TSS	Appendix I VOCs, Metals List, TSS	Appendix I VOCs, Metal List, TSS	Appendix I VOCs, Metals List, TSS	6/27/2012, 4/24/2013, 2/13/2018, 6/6/2023	2028
MW-14	Appendix I VOCs, Metals List, Silvex[2,4,5-TP][2C], TSS	Appendix I VOCs, Metals List, Silvex[2,4,5-TP][2C], TSS	Appendix I VOCs, Metals List, Silvex[2,4,5-TP][2C], TSS	Appendix I VOCs, Metals List, Silvex[2,4,5-TP][2C], TSS	6/27/2012, 4/24/2013, 2/13/2018, 6/6/2023	2028
MW-15R	Appendix I VOCs, Metal List, TSS	Appendix I VOCs, Metals List, TSS	Appendix I VOCs, Metal List, TSS	Appendix I VOCs, Metals List, TSS	4/24/2013, 3/26/2014, 4/4/2019, 3/6/2024	2029
GWD-1	Not Sampled - Dry	Not Sampled - Dry	Appendix I, TSS	None*	9/25/2014	NA

Notes:

Metals List includes arsenic, barium, cadmium, cobalt, copper, lead, nickel, selenium, thallium, vanadium, zinc. In accordance with DNR comment letter (#111466) dated January 3, 2025, sampling was discontinued for antimony, beryllium, chromium, and silver in all HMSP monitoring wells and tin for monitoring wells MW-10, MW-12, and MW-15R.

TSS: Total Suspended Solids

* - Monitoring point is only required to be sampled annually. A sample will be attempted during the 1st 2026 semi-annual sampling event. If a sample is unable to be obtained then a sample will be attempted during the 2nd 2026 semi-annual sampling event.

Table 3
Monitoring Well Maintenance and Performance Re-Evaluation Schedule
2025 Annual Water Quality Report
Sac County Sanitary Landfill
Permit No. 81-SDP-01-75C

Compliance with:	2023	2024	2025	2026
567 IAC 113.10(2)"f"(1) high and low water levels	Completed	Completed	Included ⁽¹⁾	Scheduled
567 IAC 113.10(2)"f"(2) changes in the hydrologic setting and flow paths	Completed	Completed	Included ⁽¹⁾	Scheduled
567 IAC 113.10(2)"f"(3) well depths	Completed	Completed	Included ⁽²⁾	Scheduled
567 IAC 113.10(2)"f"(4) well recharge rates and chemistry		Completed		Scheduled
Waste separation from ground water 113.6(2)i	Completed	Completed	Included ⁽²⁾	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
Sac County Sanitary Landfill
Permit No. 81-SDP-01-75C

Well	Top of Casing	Top of Screen	Total Depth		Date of Measurements		Maximum Depth Discrepancy (ft)
					5/1/2025	7/7/2025	
MW-1	1387.7	1372.9	24.8	Groundwater Level (ft)	14.95	14.34	-0.5
				Groundwater Elevation (Ft MSL)	1372.78	1373.39	
				Measured Well Depth (ft)	25.3	25.3	
				Submerged screen	N	Y	
MW-2	1360.5	1350.7	24.8	Groundwater Level (ft)	10.74	14.43	-0.4
				Groundwater Elevation (Ft MSL)	1349.73	1346.04	
				Measured Well Depth (ft)	25.2	25.1	
				Submerged screen	N	N	
MW-5R	1344.7	1338.1	16.6	Groundwater Level (ft)	3.20	3.33	-1.0
				Groundwater Elevation (Ft MSL)	1341.52	1341.39	
				Measured Well Depth (ft)	17.6	17.6	
				Submerged screen	Y	Y	
MW-6R	1343.0	1335.0	18.0	Groundwater Level (ft)	11.75	13.40	0.0
				Groundwater Elevation (Ft MSL)	1331.22	1329.57	
				Measured Well Depth (ft)	18.0	18.0	
				Submerged screen	N	N	
MW-10	1369.1	1352.2	26.9	Groundwater Level (ft)	13.45	21.97	-0.5
				Groundwater Elevation (Ft MSL)	1355.69	1347.17	
				Measured Well Depth (ft)	27.4	27.4	
				Submerged screen	Y	N	
MW-12	1371.9	1361.9	25.0	Groundwater Level (ft)	8.21	12.39	-0.2
				Groundwater Elevation (Ft MSL)	1363.66	1359.48	
				Measured Well Depth (ft)	25.2	25.2	
				Submerged screen	Y	N	
MW-13	1351.1	1326.6	34.5	Groundwater Level (ft)	16.35	19.15	0.1
				Groundwater Elevation (Ft MSL)	1334.73	1331.93	
				Measured Well Depth (ft)	34.5	34.4	
				Submerged screen	Y	Y	
MW-14	1340.2	1331.2	19.0	Groundwater Level (ft)	8.14	13.25	-0.3
				Groundwater Elevation (Ft MSL)	1332.04	1326.93	
				Measured Well Depth (ft)	19.3	19.2	
				Submerged screen	Y	N	
MW-15R	1369.8	1350.7	29.1	Groundwater Level (ft)	12.28	18.58	0.1
				Groundwater Elevation (Ft MSL)	1357.54	1351.24	
				Measured Well Depth (ft)	29.0	29.0	
				Submerged screen	Y	Y	

Comments:

1) Measured well depths were within 1.0 foot of the installed depths for all monitoring wells with the following exception:

MW-5R: Monitoring well MW-5R measured 1.0 feet deeper than the installed depth during the 1st 2024 semi-annual sampling event. It is unknown why the monitoring well was measured at a deeper depth during this event, however as a sample was able to be collected it is likely that the well is functioning properly.

Groundwater Underdrain Piezometer

Well		Date of Measurements	
		5/1/2025	7/7/2025
GWD-1	Bottom of waste (feet MSL)	NA	
	Groundwater Elevation (feet MSL)	Dry	Dry
	Separation distance compliant?	Yes	Yes

Comments:

GWD-1 was noted as dry during the 1st and 2nd 2025 sampling events. As a result of the monitoring point being dry, it is likely that greater than 5 foot separation is present.

Table 5
Background and GWPS Summary Tables
2025 Annual Water Quality Report
Sac County Sanitary Landfill
Permit No. 81-SDP-01-75C

Interwell Background/GWPS (MW-1 and MW-2)

Constituent	Units	Samples	Detections	Min	Max	Mean	Background Level	Statistical Test	GWPS	Source
Arsenic (As)	mg/L	59	5	0.000906*	0.003	0.001328695	0.003	PL (NP)	0.01	MCL
Barium (Ba)	mg/L	77	77	0.05825	0.552	0.199455844	0.552	PL (NP)	2.0	MCL
Cadmium (Cd)	mg/L	55	13	0.000037*	0.0025	0.000276691	0.0025	PL (NP)	0.005	MCL
Cobalt (Co)	mg/L	47	17	0.000038*	0.0044	0.00036816	0.0044	PL (NP)	0.0044	SSS
Copper (Cu)	mg/L	60	20	0.000698*	0.0134	0.003238133	0.0134	PL (NP)	1.3	MCL
Lead (Pb)	mg/L	66	54	0.00025 (1/2 RL)	0.05	0.007541333	0.05	PL (P)	0.05	SSS
Nickel (Ni)	mg/L	63	15	0.0005 (1/2 RL)	0.02	0.003304016	0.02	PL (NP)	0.1	SWS
Selenium (Se)	mg/L	59	56	0.00141*	0.01032	0.00525839	0.01032	PL (P)	0.05	MCL
Thallium (Tl)	mg/L	64	6	0.000125 (1/2 RL)	0.00598	0.000598656	0.00598	PL (NP)	0.00598	SSS
Vanadium (V)	mg/L	44	9	0.000291*	0.00333*	0.002191023	0.00333	PL (NP)	0.035	SWS
Zinc (Zn)	mg/L	77	9	0.004 (1/2 RL)	0.0602	0.010783766	0.0602	PL (NP)	2.0	SWS

* - Indicates a J Flag; concentration is below the reporting limit but above the method detection limit. The concentration is estimated.

Acronyms/Abbreviations:

RL = Reporting Limit

PL = Prediction Limit

MCL = EPA Maximum Contaminant Level

SWS = Statewide Standard

GWPS = Groundwater Protection Standard (mg/L)

HMSP = Hydrologic Monitoring System Plan

DQR = Double Quantification Rule

NP = Non-Parametric

SSS = Site-Specific GWPS

P = Parametric

- 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. Data from the background wells is not used 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 2024 reporting period.
- 3) Re-sampling strategy:** If any monitoring well at the Landfill returns to the detection monitoring program, retesting will be performed on a 1-of-2 basis.
- 4) Justification for data exclusion:** Laboratory methodology and instrumentation achieved a cobalt reporting limit of 0.05 mg/L prior to and including the September 2011 sampling event. Beginning with the November 2011 sampling event, improved laboratory instrumentation provided an increased concentration sensitivity and lower cobalt reporting limit. Due to analytical improvements, cobalt data prior to November 2011 is no longer considered representative of groundwater quality at the Landfill, and non-detect values of <0.05 mg/L in HMSP monitoring wells except for MW-5R and MW-6R, which were not sampled until 2012, were removed from the statistical evaluation. Additionally, due to analytical improvements, thallium data with a reporting limit equal to or greater than 0.002 mg/L is no longer considered representative of groundwater quality at the Landfill and has been removed from the statistical evaluation (Doc #87107).

Table 6
Summary of Well/Detected Constituent Pairs With No Previous SSIs
2025 Annual Water Quality Report
Sac County Sanitary Landfill
Permit No. 81-SDP-01-75C

There were no monitoring well/constituent pairs with an SSI with no immediately preceding SSI.

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 predication limits:** None
- 5) **Resampling strategy:** If any monitoring well returns to the detection monitoring program, retesting will be performed on a 1-of-2 retesting scheme.

Table 7
Summary Table of Ongoing and Newly Identified SSIs
2025 Annual Water Quality Report
Sac County Sanitary Landfill
Permit No. 81-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-5R	None								
MW-6R	Arsenic	mg/L	0.005	0.003	0.001688	0.01	11/1/2023	NM	9/20/2013
	Cobalt	mg/L	0.00423	0.0044	0.000229	0.0044	11/1/2023	NM	9/25/2014
	Nickel	mg/L	0.0189	0.02	0.01337	0.1	11/1/2023	NM	9/20/2013
MW-10	None								
MW-12	None								
MW-13	None								
MW-14	None								
MW-15R	cis-1,2-Dichloroethene	µg/L	4.95	< 1	3.976	70	11/30/2011	NM	11/29/2012

* J flag: concentration is greater than the method detection limit, but less than the reporting limit. The concentration is estimated.

Notes:

- 1) Shaded rows denote constituent/well pairs with SSIs indicated in 2025 but not 2024. Unshaded rows denote constituent/well pairs with SSIs indicated during both the 2024 and 2025 reporting periods.
 - 2) A single exceedance in an assessment monitoring well is recorded above as an SSI. Retesting is not performed as the monitoring well is not in the detection monitoring program.
 - 3) An ongoing SSI is defined as one or more SSIs for a monitoring well/constituent pair in both the previous and current reporting periods.
 - 4) A single detection of a VOC above the reporting limit during the current reporting period, and not in the immediately preceding reporting period, is recorded above as an SSI.
- NM - Not Measured; Resampling of constituents with indicated SSIs was not part of the statistical methodology performed based on the current monitoring program for the monitoring well as the monitoring well was in the assessment monitoring program.

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:** Not Applicable.
- 5) **Property owner notifications:** Not Applicable.

Table 8
Summary Table of Ongoing and Newly Identified SSLs
2025 Annual Water Quality Report
Sac County Sanitary Landfill
Permit No. 81-SDP-01-75C

Well	Constituent	GWPS	Unit	Initial Exceedance	Upper Confidence Limit Below GWPS					
					1 st Year		2 nd Year		3 rd Year	
None										

Comments:

No monitoring well-constituent pairs have exceeded a GWPS at an SSL.

Table 9
Summary of Groundwater Chemistry
2025 Annual Water Quality Report
Sac County Sanitary Landfill
Permit No. 81-SDP-01-75C

The Reporting Period Summary of Groundwater Chemistry is located in Appendix C.

Analytical data prior to 2025 is available in the 2024 Annual Water Quality Report dated December 12, 2024 (Doc #111466)

Table 10
Historical SSI and SSL
2025 Annual Water Quality Report
Sac County Sanitary Landfill
Permit No. 81-SDP-01-75C

Key

	SSI
	SSL

Well	Constituent	Spring 2021	Fall 2021	Spring 2022	Fall 2022	Spring 2023	Fall 2023	Spring 2024	Fall 2024	Spring 2025	Fall 2025
MW-5R	Arsenic										
	Selenium										
	Vanadium										
MW-6R	Arsenic										
	Cobalt										
	Nickel										
	Benzene										
	cis-1,2-Dichloroethene										
	Toluene										
MW-10	Barium										
	Cobalt										
	Nickel										
MW-12	cis-1,2-Dichloroethene										
MW-13	Arsenic										
	Cobalt										
	Nickel										
MW-14	Arsenic										
	Nickel										
	Benzene										
	cis-1,2-Dichloroethene										
	2,4,5-TP [Silvex] [2C]										
MW-15R	Arsenic										
	Nickel										
	cis-1,2-Dichloroethene										
	trans-1,2-Dichloroethene										
	Vinyl Chloride										

Comments:

- 1) SSIs shown were not verified with retesting as the monitoring wells are in assessment monitoring.

Table 11
Corrective Action Trend Analysis
2025 Annual Water Quality Report
Sac County Sanitary Landfill
Permit No. 81-SDP-01-75C

Well	Current SSL	Trend	Calculated S	Critical S	N	Projected Year to Completion*
None						

Notes:

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

N - Number of samples used in the trend analysis.

S - Mann-Kendall Statistic.

Comments:

- 1) No monitoring well-constituent pairs have exceeded a GWPS at an SSL.

Figures

Path: C:\Users\hmadson\OneDrive - SCS Engineers\Desktop\GIS\Map\Drawn\Offices\Sac\Map\Sac-2023_AWQB.aprx
User: hmadson
Date Saved: 9/23/2025 7:37 AM



Monitoring Point	Current Monitoring Program
MW-1	Background
MW-2	Background
MW-5R	Assessment
MW-6R	Assessment
MW-10	Assessment
MW-12	Assessment
MW-13	Assessment
MW-14	Assessment
MW-15R	Assessment
GWD-1	Treated with Leachate

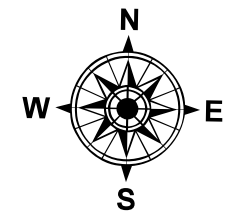


Approved Monitoring Network

Legend

- HMSP Monitoring Well
- Approximate Monitoring Well Location
- Approximate Leachate Monitoring Well
- Located Waste Boundary
- Approximate Waste Boundary
- Approximate Property Boundary

Sac County Sanitary Landfill
(Closed)
Sac City, Iowa
Project No: 27225365.26
Drawing Date: September
2025



0 80 160 320 480
Feet

Figure 1



Groundwater Contours

SCS
ENGINEERS
environmental consultants and contractors

Legend

Approximate Groundwater
Contours Based on Field
Measurements Taken May 1,
2025



Approximate Monitoring Well Location



— — Located Waste Boundary

— — Approximate Property Boundary

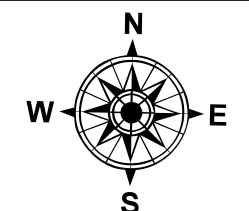


Figure 2



Appendix A

Field Sampling Forms

FORM FOR GROUNDWATER SAMPLING

Project: Sac County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-1	Date: 5/1/2025
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):	25.3
Initial Static Water Level (feet):	14.95
Initial Groundwater Elevation (ft-amsl):	1372.78
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
3:38 PM	Purging start time.						
3:41 PM	10.0	10.4	674.9	7.27	212.9	2.5	
3:44 PM	9.8	10.3	674.7	7.27	215.8	4.1	
3:47 PM	9.9	10.1	674.8	7.28	217.9	5.3	
3:50 PM	10.0	10.0	674.6	7.27	219.7	8.1	
Parameters stabilized, sample collected.							

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

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

FORM FOR GROUNDWATER SAMPLING

Project: Sac County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-2	Date: 5/1/2025
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):	25.2
Initial Static Water Level (feet):	10.74
Initial Groundwater Elevation (ft-amsl):	1349.73
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)	
11:33 AM	Purging start time.						
11:36 AM	10.7	10.9	360.3	7.58	173.6	4.2	
11:39 AM	10.5	11.2	360.6	7.57	190.9	4.2	
11:42 AM	10.5	11.2	362.2	7.57	201.2	3.5	
11:45 AM	10.4	11.2	366.4	7.56	208.2	3.7	
Parameters stabilized, sample collected.							

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

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

FORM FOR GROUNDWATER SAMPLING

Project: Sac County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-5R	Date: 5/1/2025
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):	17.6
Initial Static Water Level (feet):	3.20
Initial Groundwater Elevation (ft-amsl):	1341.52
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)	
12:00 PM	Purging start time.						
12:03 PM	10.2	0.7	1002.3	6.75	192.9	3.8	
12:06 PM	10.3	0.3	975.9	6.79	189.7	3.7	
12:09 PM	10.1	0.2	963.8	6.80	187.3	6.4	
12:12 PM	10.0	0.2	964.8	6.80	184.6	8.8	
Parameters stabilized, sample collected.							

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

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

FORM FOR GROUNDWATER SAMPLING

Project: Sac County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-6R	Date: 5/1/2025
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):	18.0
Initial Static Water Level (feet):	11.75
Initial Groundwater Elevation (ft-amsl):	1331.22
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)	
1:02 PM	Purging start time.						
1:05 PM	11.2	0.4	1368.2	6.69	-28.9	12.6	
1:08 PM	10.9	0.2	1355.8	6.69	-33.7	10.7	
1:11 PM	10.9	0.1	1334.7	6.70	-35.5	11.4	
1:14 PM	10.9	0.1	1323.7	6.71	-37.6	12.1	
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-None

FORM FOR GROUNDWATER SAMPLING

Project: Sac County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-10	Date: 5/1/2025
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):	27.4
Initial Static Water Level (feet):	13.45
Initial Groundwater Elevation (ft-amsl):	1355.69
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)	
2:15 PM	Purging start time.						
2:18 PM	10.9	3.7	1467.1	6.64	168.7	3.3	
2:21 PM	10.9	3.5	1469.1	6.63	174.0	5.0	
2:24 PM	10.9	3.5	1469.1	6.64	177.7	9.7	
2:27 PM	10.8	3.5	1467.9	6.64	180.5	13.8	
Parameters stabilized, sample collected.							

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

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

FORM FOR GROUNDWATER SAMPLING

Project: Sac County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-12	Date: 5/1/2025
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):	25.2
Initial Static Water Level (feet):	8.21
Initial Groundwater Elevation (ft-amsl):	1363.66
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
3:09 PM	Purging start time.						
3:12 PM	8.9	8.5	614.5	7.16	186.5	13.1	
3:15 PM	8.8	8.5	607.8	7.16	192.6	26.0	
3:18 PM	8.6	8.4	606.2	7.16	197.3	38.5	
3:21 PM	8.6	8.3	606.2	7.15	201.1	21.1	
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: Sac County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-13	Date: 5/1/2025
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):	34.5
Initial Static Water Level (feet):	16.35
Initial Groundwater Elevation (ft-amsl):	1334.73
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)	
12:34 PM	Purging start time.						
12:37 PM	12.3	0.5	1133.1	6.72	156.8	4.9	
12:40 PM	12.3	0.2	1137.3	6.72	137.7	4.5	
12:43 PM	12.4	0.2	1141.0	6.72	113.0	4.5	
12:46 PM	12.5	0.1	1145.6	6.72	77.4	4.4	
Parameters stabilized, sample collected.							

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

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

FORM FOR GROUNDWATER SAMPLING

Project: Sac County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-14	Date: 5/1/2025
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):	19.3
Initial Static Water Level (feet):	8.14
Initial Groundwater Elevation (ft-amsl):	1332.04
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)	
1:39 PM	Purging start time.						
1:42 PM	10.3	3.3	1354.4	6.69	60.3	3.4	
1:45 PM	10.0	4.2	1330.4	6.72	104.7	3.9	
1:48 PM	9.8	4.5	1316.3	6.73	126.2	5.7	
1:51 PM	9.6	5.3	1277.5	6.76	144.0	12.8	
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: Sac County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-15R	Date: 5/1/2025
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):	29.0
Initial Static Water Level (feet):	12.28
Initial Groundwater Elevation (ft-amsl):	1357.54
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)	
2:42 PM	Purging start time.						
2:45 PM	10.0	1.6	1075.7	6.72	187.7	9.1	
2:48 PM	9.9	1.4	1070.8	6.71	184.9	21.3	
2:51 PM	9.8	1.3	1071.5	6.71	181.9	39.0	
2:54 PM	10.0	0.9	1132.4	6.69	177.4	71.7	
Parameters stabilized, sample collected.							

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

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

Site Name	Sac County Sanitary Landfill	Permit No.	81-SDP-01-75P
Surface Monitoring Point No.	GWD-1	Date	5-1-25
Name of Person Sampling	Korner Roth		

Stream	<u> </u>	Open Tile	<u> </u> X
Road Ditch	<u> </u>	Tile with Riser	<u> </u>
Drainage Ditch	<u> </u>	Other	<u> </u>

Upstream
Within Landfill

Downstream
Other

Was monitoring point dry? yes Too little water to sample? yes
Was water flowing? NO If yes, estimate quantity (cfs) inch
If yes, estimate depth (inches)

Was water discolored? YES
Does water have odor? YES
Was ground discolored? NO
Litter present? YES

Comments _____

Weather Conditions 62°F, Rain/cloudy, 10-15mph wind

Field Measurements (after stabilization):

Temperature _____ Units _____ Celsius _____
Equipment Used _____

pH		Units	Standard units
Equipment Used			

Spec. Conductance _____ Units _____ $\mu\text{S/cm}$
Equipment Used _____

COMMENTS Dry

FORM FOR GROUNDWATER SAMPLING

Project: Sac County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-1	Date: 7/7/2025
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):	25.3
Initial Static Water Level (feet):	14.34
Initial Groundwater Elevation (ft-amsl):	1373.39
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
3:28 PM	Purging start time.						
3:31 PM	18.2	10.9	651.8	7.28	212.2	<1	
3:34 PM	18.7	10.8	641.6	7.23	229.2	2.5	
3:37 PM	18.9	10.7	642.9	7.20	240.4	10.2	
3:40 PM	18.5	10.6	646.3	7.20	248.1	21.2	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	1.7
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	141.67

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: Sac County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-2	Date: 7/7/2025
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):	25.1
Initial Static Water Level (feet):	14.43
Initial Groundwater Elevation (ft-amsl):	1346.04
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)	
4:16 PM	Purging start time.						
4:19 PM	15.7	9.9	428.2	7.58	229.2	<1	
4:22 PM	15.5	10.4	424.5	7.43	244.9	<1	
4:25 PM	15.8	10.2	437.6	7.35	254.6	<1	
4:28 PM	15.9	10.1	452.8	7.30	261.0	<1	
Parameters stabilized, sample collected.							

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

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

FORM FOR GROUNDWATER SAMPLING

Project: Sac County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-5R	Date: 7/7/2025
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):	17.6
Initial Static Water Level (feet):	3.33
Initial Groundwater Elevation (ft-amsl):	1341.39
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)	
4:55 PM	Purging start time.						
4:58 PM	19.2	0.6	944.3	6.75	185.4	13.8	
5:01 PM	19.4	0.4	939.5	6.73	125.9	23.1	
5:04 PM	19.5	0.3	942.5	6.73	85.6	17.3	
5:07 PM	19.3	0.2	948.6	6.73	63.2	14.0	
Parameters stabilized, sample collected.							

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

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

FORM FOR GROUNDWATER SAMPLING

Project: Sac County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-6R	Date: 7/7/2025
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):	18.0
Initial Static Water Level (feet):	13.40
Initial Groundwater Elevation (ft-amsl):	1329.57
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
5:39 PM	Purging start time.						
5:42 PM	18.2	0.8	1090.6	6.71	213.9	<1	
5:45 PM	18.2	0.5	1085.8	6.70	194.2	<1	
5:48 PM	18.3	0.3	1085.0	6.70	164.3	<1	
5:51 PM	18.2	0.3	1084.4	6.70	140.2	<1	
Parameters stabilized, sample collected.							

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

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

FORM FOR GROUNDWATER SAMPLING

Project: Sac County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-10	Date: 7/7/2025
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):	27.4
Initial Static Water Level (feet):	21.97
Initial Groundwater Elevation (ft-amsl):	1347.17
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)	
6:23 PM	Purging start time.						
6:26 PM	16.4	0.6	1311.2	6.55	-56.6	<1	
6:29 PM	15.9	0.3	1298.5	6.56	-71.8	<1	
6:32 PM	15.8	0.2	1281.8	6.57	-79.8	<1	
6:35 PM	15.8	0.2	1257.4	6.56	-84.2	<1	
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):	12:00
Average Purge Rate (mL/min):	191.67

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: Sac County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-12	Date: 7/7/2025
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):	52.2
Initial Static Water Level (feet):	12.39
Initial Groundwater Elevation (ft-amsl):	1359.48
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)	
7:35 PM	Purging start time.						
7:38 PM	12.4	5.8	639.4	7.13	36.7	<1	
7:41 PM	12.0	5.8	628.8	7.08	58.6	<1	
7:44 PM	12.1	5.7	627.9	7.04	76.1	<1	
7:47 PM	12.1	5.7	628.1	7.02	89.6	<1	
Parameters stabilized, sample collected.							

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

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

FORM FOR GROUNDWATER SAMPLING

Project: Sac County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-13	Date: 7/7/2025
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):	34.4
Initial Static Water Level (feet):	19.15
Initial Groundwater Elevation (ft-amsl):	1331.93
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)	
8:23 PM	Purging start time.						
8:26 PM	14.1	4.4	1322.6	6.63	221.4	<1	
8:29 PM	13.9	4.2	1326.8	6.61	219.0	<1	
8:32 PM	13.7	4.2	1322.2	6.62	216.5	<1	
8:35 PM	13.7	4.3	1317.9	6.61	215.3	<1	
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: Sac County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-14	Date: 7/8/2025
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):	19.2
Initial Static Water Level (feet):	13.25
Initial Groundwater Elevation (ft-amsl):	1326.93
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)	
11:13 AM	Purging start time.						
11:16 AM	16.6	0.6	1439.7	6.50	238.2	0.2	
11:19 AM	16.6	0.4	1401.4	6.52	231.9	4.5	
11:22 AM	16.6	0.3	1369.9	6.55	223.9	9.1	
11:25 AM	16.4	0.4	1348.2	6.58	216.3	8.1	
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-None

FORM FOR GROUNDWATER SAMPLING

Project: Sac County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-15R	Date: 7/8/2025
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):	29.0
Initial Static Water Level (feet):	18.58
Initial Groundwater Elevation (ft-amsl):	1351.24
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)	
10:17 AM	Purging start time.						
10:20 AM	16.8	0.5	1314.9	6.59	52.1	<1	
10:23 AM	16.7	0.3	1311.4	6.57	14.4	<1	
10:26 AM	16.8	0.3	1301.3	6.57	-2.3	<1	
10:29 AM	16.7	0.2	1126.8	6.61	-10.2	2.2	
10:32 AM	16.7	0.2	1118.5	6.61	-10.9	4.2	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	2.4
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	15:00
Average Purge Rate (mL/min):	160.00

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

FORM FOR SURFACE WATER SAMPLING

Site Name Sac County Sanitary Landfill Permit No. 81-SDP-01-75P
 Surface Monitoring Point No. GWD-1 Date _____

Name of Person Sampling _____

A. TYPE OF MONITORING POINT

Stream	_____	Open Tile	<u>X</u>
Road Ditch	_____	Tile with Riser	_____
Drainage Ditch	_____	Other	_____

B. PURPOSE OF MONITORING POINT

Upstream	_____	Downstream	_____
Within Landfill	_____	Other	_____

C. MONITORING POINT CONDITIONS

Was monitoring point dry?	<u>yes</u>	Too little water to sample?	<u>yes</u>
Was water flowing?	_____	If yes, estimate quantity (cfs)	_____
		If yes, estimate depth (inches)	_____

Was water discolored? _____
 Does water have odor? _____
 Was ground discolored? _____
 Litter present? _____

Comments _____

D. FIELD MEASUREMENTS

Weather Conditions 85° F Sunny, slight wind

Field Measurements (after stabilization):

Temperature	_____	Units	<u>Celsius</u>
Equipment Used	_____		
pH	_____	Units	<u>Standard units</u>
Equipment Used	_____		
Spec. Conductance	_____	Units	<u>uS/cm</u>
Equipment Used	_____		

COMMENTS

Appendix B-1
Laboratory Analytical Data Sheets

ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/13/2025 10:09:55 AM

JOB DESCRIPTION

Sac County Sanitary Landfill
1st Semi-Annual GW Sampling

JOB NUMBER

310-305613-1

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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5/13/2025 10:09:55 AM

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Case Narrative

Client: SCS Engineers
Project: Sac County Sanitary Landfill

Job ID: 310-305613-1

Job ID: 310-305613-1

Eurofins Cedar Falls

Job Narrative 310-305613-1

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 5/2/2025 4:40 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 3.4°C.

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 310-453819 recovered outside of the control limits for Bromomethane (-23.3%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 310-453819/4).

Method 8260D: The continuing calibration verification (CCV) associated with batch 310-453821 recovered outside of the control limits for Bromomethane (-20.7%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 310-453821/4).

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

Herbicides

Method 8151A: The following sample was diluted due to the nature of the sample matrix: MW-14 (310-305613-8). Elevated reporting limits (RLs) are provided.

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

Metals

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

General Chemistry

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

Eurofins Cedar Falls

Sample Summary

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-305613-1	MW-1	Water	05/01/25 14:02	05/02/25 16:40
310-305613-2	MW-2	Water	05/01/25 11:55	05/02/25 16:40
310-305613-3	MW-5R	Water	05/01/25 12:32	05/02/25 16:40
310-305613-4	MW-6R	Water	05/01/25 13:25	05/02/25 16:40
310-305613-5	MW-10	Water	05/01/25 14:37	05/02/25 16:40
310-305613-6	MW-12	Water	05/01/25 15:32	05/02/25 16:40
310-305613-7	MW-13	Water	05/01/25 12:56	05/02/25 16:40
310-305613-8	MW-14	Water	05/01/25 14:12	05/02/25 16:40
310-305613-9	MW-15R	Water	05/01/25 15:05	05/02/25 16:40
310-305613-10	MW-D	Water	05/01/25 12:32	05/02/25 16:40
310-305613-11	Trip Blank 1	Water	05/01/25 00:00	05/02/25 16:40
310-305613-12	Trip Blank 2	Water	05/01/25 00:00	05/02/25 16:40

Detection Summary

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

Client Sample ID: MW-1

Lab Sample ID: 310-305613-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.232		0.00200	0.000660	mg/L	1		6020B	Total/NA
Selenium	0.00524		0.00500	0.00140	mg/L	1		6020B	Total/NA

Client Sample ID: MW-2

Lab Sample ID: 310-305613-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.112		0.00200	0.000660	mg/L	1		6020B	Total/NA
Copper	0.00623		0.00500	0.00320	mg/L	1		6020B	Total/NA
Lead	0.000429	J	0.000500	0.000330	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-5R

Lab Sample ID: 310-305613-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.225		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000149	J	0.000200	0.000100	mg/L	1		6020B	Total/NA
Nickel	0.00609		0.00500	0.00230	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-6R

Lab Sample ID: 310-305613-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00944		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0585		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000179	J	0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.0190		0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.0116		0.00500	0.00320	mg/L	1		6020B	Total/NA
Lead	0.00303		0.000500	0.000330	mg/L	1		6020B	Total/NA
Nickel	0.0533		0.00500	0.00230	mg/L	1		6020B	Total/NA
Zinc	0.0159	J	0.0200	0.0130	mg/L	1		6020B	Total/NA
Total Suspended Solids	29.0		15.0	10.5	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-10

Lab Sample ID: 310-305613-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.128		0.00200	0.000660	mg/L	1		6020B	Total/NA
Copper	0.00362	J	0.00500	0.00320	mg/L	1		6020B	Total/NA
Lead	0.000358	J	0.000500	0.000330	mg/L	1		6020B	Total/NA
Nickel	0.00861		0.00500	0.00230	mg/L	1		6020B	Total/NA

Client Sample ID: MW-12

Lab Sample ID: 310-305613-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.282		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000186	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.000899		0.000500	0.000330	mg/L	1		6020B	Total/NA
Total Suspended Solids	1.38	J	1.88	1.31	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-13

Lab Sample ID: 310-305613-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00243		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.145		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00303		0.000500	0.000170	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: Sac County Sanitary Landfill

Job ID: 310-305613-1

Client Sample ID: MW-13 (Continued)

Lab Sample ID: 310-305613-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.0151		0.00500	0.00230	mg/L	1		6020B	Total/NA
Total Suspended Solids	1.50	J	1.88	1.31	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-14

Lab Sample ID: 310-305613-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.406	J	1.00	0.210	ug/L	1		8260D	Total/NA
Arsenic	0.000604	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.189		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000544		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.00930		0.00500	0.00230	mg/L	1		6020B	Total/NA
Total Suspended Solids	2.38		1.88	1.31	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-15R

Lab Sample ID: 310-305613-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4.67		1.00	0.210	ug/L	1		8260D	Total/NA
Arsenic	0.00146	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.325		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000121	J	0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.00109		0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.000443	J	0.000500	0.000330	mg/L	1		6020B	Total/NA
Nickel	0.0113		0.00500	0.00230	mg/L	1		6020B	Total/NA

Client Sample ID: MW-D

Lab Sample ID: 310-305613-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.217		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000167	J	0.000200	0.000100	mg/L	1		6020B	Total/NA
Nickel	0.00576		0.00500	0.00230	mg/L	1		6020B	Total/NA
Total Suspended Solids	2.25		1.88	1.31	mg/L	1		I-3765-85	Total/NA

Client Sample ID: Trip Blank 1

Lab Sample ID: 310-305613-11

No Detections.

Client Sample ID: Trip Blank 2

Lab Sample ID: 310-305613-12

No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

Client Sample ID: MW-1

Lab Sample ID: 310-305613-1

Date Collected: 05/01/25 14:02

Matrix: Water

Date Received: 05/02/25 16:40

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			05/07/25 13:20	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/07/25 13:20	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/07/25 13:20	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/07/25 13:20	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/07/25 13:20	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/07/25 13:20	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/07/25 13:20	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/07/25 13:20	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/07/25 13:20	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/07/25 13:20	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/07/25 13:20	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/07/25 13:20	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/07/25 13:20	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/07/25 13:20	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/07/25 13:20	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/07/25 13:20	1
Acetone	<10.0		10.0	3.10	ug/L			05/07/25 13:20	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/07/25 13:20	1
Benzene	<0.500		0.500	0.220	ug/L			05/07/25 13:20	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/07/25 13:20	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/07/25 13:20	1
Bromoform	<5.00		5.00	0.780	ug/L			05/07/25 13:20	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/07/25 13:20	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/07/25 13:20	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/07/25 13:20	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/07/25 13:20	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/07/25 13:20	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/07/25 13:20	1
Chloroform	<3.00		3.00	1.30	ug/L			05/07/25 13:20	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/07/25 13:20	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/07/25 13:20	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/07/25 13:20	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/07/25 13:20	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/07/25 13:20	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/07/25 13:20	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/07/25 13:20	1
Styrene	<1.00		1.00	0.370	ug/L			05/07/25 13:20	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/07/25 13:20	1
Toluene	<1.00		1.00	0.430	ug/L			05/07/25 13:20	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/07/25 13:20	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/07/25 13:20	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/07/25 13:20	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/07/25 13:20	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/07/25 13:20	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/07/25 13:20	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/07/25 13:20	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/07/25 13:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	114		76 - 130		05/07/25 13:20	1

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Client Sample Results

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

Client Sample ID: MW-1

Lab Sample ID: 310-305613-1

Date Collected: 05/01/25 14:02

Matrix: Water

Date Received: 05/02/25 16:40

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		80 - 120		05/07/25 13:20	1
4-Bromofluorobenzene (Surr)	99		80 - 120		05/07/25 13:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/08/25 09:30	05/09/25 18:37	1
Barium	0.232		0.00200	0.000660	mg/L		05/08/25 09:30	05/09/25 18:37	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/08/25 09:30	05/09/25 18:37	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/08/25 09:30	05/09/25 18:37	1
Copper	<0.00500		0.00500	0.00320	mg/L		05/08/25 09:30	05/09/25 18:37	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/08/25 09:30	05/09/25 18:37	1
Nickel	<0.00500		0.00500	0.00230	mg/L		05/08/25 09:30	05/10/25 18:28	1
Selenium	0.00524		0.00500	0.00140	mg/L		05/08/25 09:30	05/09/25 18:37	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/08/25 09:30	05/09/25 18:37	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		05/08/25 09:30	05/09/25 18:37	1
Zinc	<0.0200		0.0200	0.0130	mg/L		05/08/25 09:30	05/10/25 18:28	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			05/07/25 15:33	1

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

Client Sample ID: MW-2

Lab Sample ID: 310-305613-2

Date Collected: 05/01/25 11:55

Matrix: Water

Date Received: 05/02/25 16:40

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			05/07/25 13:43	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/07/25 13:43	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/07/25 13:43	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/07/25 13:43	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/07/25 13:43	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/07/25 13:43	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/07/25 13:43	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/07/25 13:43	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/07/25 13:43	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/07/25 13:43	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/07/25 13:43	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/07/25 13:43	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/07/25 13:43	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/07/25 13:43	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/07/25 13:43	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/07/25 13:43	1
Acetone	<10.0		10.0	3.10	ug/L			05/07/25 13:43	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/07/25 13:43	1
Benzene	<0.500		0.500	0.220	ug/L			05/07/25 13:43	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/07/25 13:43	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/07/25 13:43	1
Bromoform	<5.00		5.00	0.780	ug/L			05/07/25 13:43	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/07/25 13:43	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/07/25 13:43	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/07/25 13:43	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/07/25 13:43	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/07/25 13:43	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/07/25 13:43	1
Chloroform	<3.00		3.00	1.30	ug/L			05/07/25 13:43	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/07/25 13:43	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/07/25 13:43	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/07/25 13:43	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/07/25 13:43	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/07/25 13:43	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/07/25 13:43	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/07/25 13:43	1
Styrene	<1.00		1.00	0.370	ug/L			05/07/25 13:43	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/07/25 13:43	1
Toluene	<1.00		1.00	0.430	ug/L			05/07/25 13:43	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/07/25 13:43	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/07/25 13:43	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/07/25 13:43	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/07/25 13:43	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/07/25 13:43	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/07/25 13:43	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/07/25 13:43	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/07/25 13:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	111		76 - 130		05/07/25 13:43	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

Client Sample ID: MW-2

Lab Sample ID: 310-305613-2

Date Collected: 05/01/25 11:55

Matrix: Water

Date Received: 05/02/25 16:40

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		80 - 120		05/07/25 13:43	1
4-Bromofluorobenzene (Surr)	102		80 - 120		05/07/25 13:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/08/25 09:30	05/09/25 18:46	1
Barium	0.112		0.00200	0.000660	mg/L		05/08/25 09:30	05/09/25 18:46	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/08/25 09:30	05/09/25 18:46	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/08/25 09:30	05/09/25 18:46	1
Copper	0.00623		0.00500	0.00320	mg/L		05/08/25 09:30	05/09/25 18:46	1
Lead	0.000429	J	0.000500	0.000330	mg/L		05/08/25 09:30	05/09/25 18:46	1
Nickel	<0.00500		0.00500	0.00230	mg/L		05/08/25 09:30	05/10/25 18:45	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/08/25 09:30	05/09/25 18:46	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/08/25 09:30	05/09/25 18:46	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		05/08/25 09:30	05/09/25 18:46	1
Zinc	<0.0200		0.0200	0.0130	mg/L		05/08/25 09:30	05/10/25 18:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	1.75	J	1.88	1.31	mg/L			05/07/25 15:33	1

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

Client Sample ID: MW-5R

Lab Sample ID: 310-305613-3

Date Collected: 05/01/25 12:32

Matrix: Water

Date Received: 05/02/25 16:40

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	110		76 - 130		05/07/25 14:05	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

Client Sample ID: MW-5R

Lab Sample ID: 310-305613-3

Date Collected: 05/01/25 12:32

Matrix: Water

Date Received: 05/02/25 16:40

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		80 - 120		05/07/25 14:05	1
4-Bromofluorobenzene (Surr)	98		80 - 120		05/07/25 14:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/08/25 09:30	05/09/25 18:44	1
Barium	0.225		0.00200	0.000660	mg/L		05/08/25 09:30	05/09/25 18:44	1
Cadmium	0.000149	J	0.000200	0.000100	mg/L		05/08/25 09:30	05/09/25 18:44	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/08/25 09:30	05/09/25 18:44	1
Copper	<0.00500		0.00500	0.00320	mg/L		05/08/25 09:30	05/09/25 18:44	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/08/25 09:30	05/09/25 18:44	1
Nickel	0.00609		0.00500	0.00230	mg/L		05/08/25 09:30	05/10/25 18:43	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/08/25 09:30	05/09/25 18:44	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/08/25 09:30	05/09/25 18:44	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		05/08/25 09:30	05/09/25 18:44	1
Zinc	<0.0200		0.0200	0.0130	mg/L		05/08/25 09:30	05/10/25 18:43	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			05/07/25 15:33	1

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

Client Sample ID: MW-6R

Lab Sample ID: 310-305613-4

Date Collected: 05/01/25 13:25

Matrix: Water

Date Received: 05/02/25 16:40

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			05/07/25 14:28	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/07/25 14:28	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/07/25 14:28	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/07/25 14:28	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/07/25 14:28	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/07/25 14:28	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/07/25 14:28	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/07/25 14:28	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/07/25 14:28	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/07/25 14:28	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/07/25 14:28	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/07/25 14:28	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/07/25 14:28	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/07/25 14:28	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/07/25 14:28	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/07/25 14:28	1
Acetone	<10.0		10.0	3.10	ug/L			05/07/25 14:28	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/07/25 14:28	1
Benzene	<0.500		0.500	0.220	ug/L			05/07/25 14:28	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/07/25 14:28	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/07/25 14:28	1
Bromoform	<5.00		5.00	0.780	ug/L			05/07/25 14:28	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/07/25 14:28	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/07/25 14:28	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/07/25 14:28	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/07/25 14:28	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/07/25 14:28	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/07/25 14:28	1
Chloroform	<3.00		3.00	1.30	ug/L			05/07/25 14:28	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/07/25 14:28	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/07/25 14:28	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/07/25 14:28	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/07/25 14:28	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/07/25 14:28	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/07/25 14:28	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/07/25 14:28	1
Styrene	<1.00		1.00	0.370	ug/L			05/07/25 14:28	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/07/25 14:28	1
Toluene	<1.00		1.00	0.430	ug/L			05/07/25 14:28	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/07/25 14:28	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/07/25 14:28	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/07/25 14:28	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/07/25 14:28	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/07/25 14:28	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/07/25 14:28	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/07/25 14:28	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/07/25 14:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	117		76 - 130		05/07/25 14:28	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

Client Sample ID: MW-6R

Lab Sample ID: 310-305613-4

Date Collected: 05/01/25 13:25

Matrix: Water

Date Received: 05/02/25 16:40

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		80 - 120		05/07/25 14:28	1
4-Bromofluorobenzene (Surr)	102		80 - 120		05/07/25 14:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00944		0.00200	0.000530	mg/L		05/08/25 09:30	05/11/25 20:38	1
Barium	0.0585		0.00200	0.000660	mg/L		05/08/25 09:30	05/11/25 20:38	1
Cadmium	0.000179	J	0.000200	0.000100	mg/L		05/08/25 09:30	05/11/25 20:38	1
Cobalt	0.0190		0.000500	0.000170	mg/L		05/08/25 09:30	05/11/25 20:38	1
Copper	0.0116		0.00500	0.00320	mg/L		05/08/25 09:30	05/11/25 20:38	1
Lead	0.00303		0.000500	0.000330	mg/L		05/08/25 09:30	05/11/25 20:38	1
Nickel	0.0533		0.00500	0.00230	mg/L		05/08/25 09:30	05/11/25 20:38	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/08/25 09:30	05/11/25 20:38	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/08/25 09:30	05/11/25 20:38	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		05/08/25 09:30	05/11/25 20:38	1
Zinc	0.0159	J	0.0200	0.0130	mg/L		05/08/25 09:30	05/11/25 20:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	29.0		15.0	10.5	mg/L			05/07/25 15:33	1

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

Client Sample ID: MW-10

Lab Sample ID: 310-305613-5

Date Collected: 05/01/25 14:37

Matrix: Water

Date Received: 05/02/25 16:40

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			05/07/25 14:51	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/07/25 14:51	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/07/25 14:51	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/07/25 14:51	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/07/25 14:51	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/07/25 14:51	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/07/25 14:51	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/07/25 14:51	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/07/25 14:51	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/07/25 14:51	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/07/25 14:51	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/07/25 14:51	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/07/25 14:51	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/07/25 14:51	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/07/25 14:51	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/07/25 14:51	1
Acetone	<10.0		10.0	3.10	ug/L			05/07/25 14:51	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/07/25 14:51	1
Benzene	<0.500		0.500	0.220	ug/L			05/07/25 14:51	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/07/25 14:51	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/07/25 14:51	1
Bromoform	<5.00		5.00	0.780	ug/L			05/07/25 14:51	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/07/25 14:51	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/07/25 14:51	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/07/25 14:51	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/07/25 14:51	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/07/25 14:51	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/07/25 14:51	1
Chloroform	<3.00		3.00	1.30	ug/L			05/07/25 14:51	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/07/25 14:51	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/07/25 14:51	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/07/25 14:51	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/07/25 14:51	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/07/25 14:51	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/07/25 14:51	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/07/25 14:51	1
Styrene	<1.00		1.00	0.370	ug/L			05/07/25 14:51	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/07/25 14:51	1
Toluene	<1.00		1.00	0.430	ug/L			05/07/25 14:51	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/07/25 14:51	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/07/25 14:51	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/07/25 14:51	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/07/25 14:51	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/07/25 14:51	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/07/25 14:51	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/07/25 14:51	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/07/25 14:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	115		76 - 130		05/07/25 14:51	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

Client Sample ID: MW-10

Lab Sample ID: 310-305613-5

Date Collected: 05/01/25 14:37

Matrix: Water

Date Received: 05/02/25 16:40

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120		05/07/25 14:51	1
4-Bromofluorobenzene (Surr)	100		80 - 120		05/07/25 14:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/08/25 09:30	05/09/25 18:41	1
Barium	0.128		0.00200	0.000660	mg/L		05/08/25 09:30	05/09/25 18:41	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/08/25 09:30	05/09/25 18:41	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/08/25 09:30	05/09/25 18:41	1
Copper	0.00362	J	0.00500	0.00320	mg/L		05/08/25 09:30	05/09/25 18:41	1
Lead	0.000358	J	0.000500	0.000330	mg/L		05/08/25 09:30	05/09/25 18:41	1
Nickel	0.00861		0.00500	0.00230	mg/L		05/08/25 09:30	05/10/25 18:34	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/08/25 09:30	05/09/25 18:41	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/08/25 09:30	05/09/25 18:41	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		05/08/25 09:30	05/09/25 18:41	1
Zinc	<0.0200		0.0200	0.0130	mg/L		05/08/25 09:30	05/10/25 18:34	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			05/07/25 15:33	1

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

Client Sample ID: MW-12

Lab Sample ID: 310-305613-6

Date Collected: 05/01/25 15:32

Matrix: Water

Date Received: 05/02/25 16:40

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			05/07/25 15:13	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/07/25 15:13	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/07/25 15:13	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/07/25 15:13	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/07/25 15:13	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/07/25 15:13	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/07/25 15:13	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/07/25 15:13	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/07/25 15:13	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/07/25 15:13	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/07/25 15:13	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/07/25 15:13	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/07/25 15:13	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/07/25 15:13	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/07/25 15:13	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/07/25 15:13	1
Acetone	<10.0		10.0	3.10	ug/L			05/07/25 15:13	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/07/25 15:13	1
Benzene	<0.500		0.500	0.220	ug/L			05/07/25 15:13	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/07/25 15:13	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/07/25 15:13	1
Bromoform	<5.00		5.00	0.780	ug/L			05/07/25 15:13	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/07/25 15:13	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/07/25 15:13	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/07/25 15:13	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/07/25 15:13	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/07/25 15:13	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/07/25 15:13	1
Chloroform	<3.00		3.00	1.30	ug/L			05/07/25 15:13	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/07/25 15:13	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/07/25 15:13	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/07/25 15:13	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/07/25 15:13	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/07/25 15:13	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/07/25 15:13	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/07/25 15:13	1
Styrene	<1.00		1.00	0.370	ug/L			05/07/25 15:13	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/07/25 15:13	1
Toluene	<1.00		1.00	0.430	ug/L			05/07/25 15:13	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/07/25 15:13	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/07/25 15:13	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/07/25 15:13	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/07/25 15:13	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/07/25 15:13	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/07/25 15:13	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/07/25 15:13	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/07/25 15:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	115		76 - 130		05/07/25 15:13	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

Client Sample ID: MW-12

Lab Sample ID: 310-305613-6

Date Collected: 05/01/25 15:32

Matrix: Water

Date Received: 05/02/25 16:40

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		80 - 120		05/07/25 15:13	1
4-Bromofluorobenzene (Surr)	100		80 - 120		05/07/25 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/08/25 09:30	05/09/25 18:53	1
Barium	0.282		0.00200	0.000660	mg/L		05/08/25 09:30	05/09/25 18:53	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/08/25 09:30	05/09/25 18:53	1
Cobalt	0.000186	J	0.000500	0.000170	mg/L		05/08/25 09:30	05/09/25 18:53	1
Copper	<0.00500		0.00500	0.00320	mg/L		05/08/25 09:30	05/09/25 18:53	1
Lead	0.000899		0.000500	0.000330	mg/L		05/08/25 09:30	05/09/25 18:53	1
Nickel	<0.00500		0.00500	0.00230	mg/L		05/08/25 09:30	05/10/25 18:54	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/08/25 09:30	05/09/25 18:53	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/08/25 09:30	05/09/25 18:53	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		05/08/25 09:30	05/09/25 18:53	1
Zinc	<0.0200		0.0200	0.0130	mg/L		05/08/25 09:30	05/10/25 18:54	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			05/07/25 15:33	1

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

Client Sample ID: MW-13

Lab Sample ID: 310-305613-7

Date Collected: 05/01/25 12:56

Matrix: Water

Date Received: 05/02/25 16:40

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			05/07/25 15:36	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/07/25 15:36	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/07/25 15:36	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/07/25 15:36	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/07/25 15:36	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/07/25 15:36	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/07/25 15:36	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/07/25 15:36	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/07/25 15:36	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/07/25 15:36	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/07/25 15:36	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/07/25 15:36	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/07/25 15:36	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/07/25 15:36	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/07/25 15:36	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/07/25 15:36	1
Acetone	<10.0		10.0	3.10	ug/L			05/07/25 15:36	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/07/25 15:36	1
Benzene	<0.500		0.500	0.220	ug/L			05/07/25 15:36	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/07/25 15:36	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/07/25 15:36	1
Bromoform	<5.00		5.00	0.780	ug/L			05/07/25 15:36	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/07/25 15:36	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/07/25 15:36	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/07/25 15:36	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/07/25 15:36	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/07/25 15:36	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/07/25 15:36	1
Chloroform	<3.00		3.00	1.30	ug/L			05/07/25 15:36	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/07/25 15:36	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/07/25 15:36	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/07/25 15:36	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/07/25 15:36	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/07/25 15:36	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/07/25 15:36	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/07/25 15:36	1
Styrene	<1.00		1.00	0.370	ug/L			05/07/25 15:36	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/07/25 15:36	1
Toluene	<1.00		1.00	0.430	ug/L			05/07/25 15:36	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/07/25 15:36	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/07/25 15:36	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/07/25 15:36	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/07/25 15:36	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/07/25 15:36	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/07/25 15:36	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/07/25 15:36	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/07/25 15:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	111		76 - 130		05/07/25 15:36	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

Client Sample ID: MW-13

Lab Sample ID: 310-305613-7

Date Collected: 05/01/25 12:56

Matrix: Water

Date Received: 05/02/25 16:40

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		80 - 120		05/07/25 15:36	1
4-Bromofluorobenzene (Surr)	99		80 - 120		05/07/25 15:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00243		0.00200	0.000530	mg/L		05/08/25 09:30	05/09/25 18:51	1
Barium	0.145		0.00200	0.000660	mg/L		05/08/25 09:30	05/09/25 18:51	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/08/25 09:30	05/09/25 18:51	1
Cobalt	0.00303		0.000500	0.000170	mg/L		05/08/25 09:30	05/09/25 18:51	1
Copper	<0.00500		0.00500	0.00320	mg/L		05/08/25 09:30	05/09/25 18:51	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/08/25 09:30	05/09/25 18:51	1
Nickel	0.0151		0.00500	0.00230	mg/L		05/08/25 09:30	05/10/25 18:51	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/08/25 09:30	05/09/25 18:51	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/08/25 09:30	05/09/25 18:51	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		05/08/25 09:30	05/09/25 18:51	1
Zinc	<0.0200		0.0200	0.0130	mg/L		05/08/25 09:30	05/10/25 18:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	1.50	J	1.88	1.31	mg/L			05/07/25 15:33	1

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

Client Sample ID: MW-14

Lab Sample ID: 310-305613-8

Date Collected: 05/01/25 14:12

Matrix: Water

Date Received: 05/02/25 16:40

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			05/07/25 15:58	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/07/25 15:58	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/07/25 15:58	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/07/25 15:58	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/07/25 15:58	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/07/25 15:58	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/07/25 15:58	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/07/25 15:58	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/07/25 15:58	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/07/25 15:58	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/07/25 15:58	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/07/25 15:58	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/07/25 15:58	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/07/25 15:58	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/07/25 15:58	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/07/25 15:58	1
Acetone	<10.0		10.0	3.10	ug/L			05/07/25 15:58	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/07/25 15:58	1
Benzene	<0.500		0.500	0.220	ug/L			05/07/25 15:58	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/07/25 15:58	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/07/25 15:58	1
Bromoform	<5.00		5.00	0.780	ug/L			05/07/25 15:58	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/07/25 15:58	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/07/25 15:58	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/07/25 15:58	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/07/25 15:58	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/07/25 15:58	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/07/25 15:58	1
Chloroform	<3.00		3.00	1.30	ug/L			05/07/25 15:58	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/07/25 15:58	1
cis-1,2-Dichloroethene	0.406 J		1.00	0.210	ug/L			05/07/25 15:58	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/07/25 15:58	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/07/25 15:58	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/07/25 15:58	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/07/25 15:58	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/07/25 15:58	1
Styrene	<1.00		1.00	0.370	ug/L			05/07/25 15:58	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/07/25 15:58	1
Toluene	<1.00		1.00	0.430	ug/L			05/07/25 15:58	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/07/25 15:58	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/07/25 15:58	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/07/25 15:58	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/07/25 15:58	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/07/25 15:58	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/07/25 15:58	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/07/25 15:58	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/07/25 15:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	114		76 - 130		05/07/25 15:58	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

Client Sample ID: MW-14

Lab Sample ID: 310-305613-8

Date Collected: 05/01/25 14:12

Matrix: Water

Date Received: 05/02/25 16:40

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		80 - 120		05/07/25 15:58	1
4-Bromofluorobenzene (Surr)	100		80 - 120		05/07/25 15:58	1

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<2.98		2.98	1.24	ug/L		05/08/25 15:04	05/09/25 11:13	5
Silvex (2,4,5-TP)	<0.248		0.248	0.109	ug/L		05/08/25 15:04	05/09/25 11:13	5
2,4,5-T	<0.745		0.745	0.323	ug/L		05/08/25 15:04	05/09/25 11:13	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCAA	68		34 - 142	05/08/25 15:04	05/09/25 11:13	5
DCAA	70		34 - 142	05/08/25 15:04	05/09/25 11:13	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000604	J	0.00200	0.000530	mg/L		05/08/25 09:30	05/09/25 20:10	1
Barium	0.189		0.00200	0.000660	mg/L		05/08/25 09:30	05/09/25 20:10	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/08/25 09:30	05/09/25 20:10	1
Cobalt	0.000544		0.000500	0.000170	mg/L		05/08/25 09:30	05/09/25 20:10	1
Copper	<0.00500		0.00500	0.00320	mg/L		05/08/25 09:30	05/09/25 20:10	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/08/25 09:30	05/09/25 20:10	1
Nickel	0.00930		0.00500	0.00230	mg/L		05/08/25 09:30	05/10/25 20:19	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/08/25 09:30	05/09/25 20:10	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/08/25 09:30	05/09/25 20:10	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		05/08/25 09:30	05/09/25 20:10	1
Zinc	<0.0200		0.0200	0.0130	mg/L		05/08/25 09:30	05/10/25 20:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	2.38		1.88	1.31	mg/L			05/07/25 15:33	1

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

Client Sample ID: MW-15R

Lab Sample ID: 310-305613-9

Date Collected: 05/01/25 15:05

Matrix: Water

Date Received: 05/02/25 16:40

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			05/07/25 16:21	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/07/25 16:21	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/07/25 16:21	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/07/25 16:21	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/07/25 16:21	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/07/25 16:21	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/07/25 16:21	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/07/25 16:21	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/07/25 16:21	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/07/25 16:21	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/07/25 16:21	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/07/25 16:21	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/07/25 16:21	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/07/25 16:21	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/07/25 16:21	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/07/25 16:21	1
Acetone	<10.0		10.0	3.10	ug/L			05/07/25 16:21	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/07/25 16:21	1
Benzene	<0.500		0.500	0.220	ug/L			05/07/25 16:21	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/07/25 16:21	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/07/25 16:21	1
Bromoform	<5.00		5.00	0.780	ug/L			05/07/25 16:21	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/07/25 16:21	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/07/25 16:21	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/07/25 16:21	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/07/25 16:21	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/07/25 16:21	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/07/25 16:21	1
Chloroform	<3.00		3.00	1.30	ug/L			05/07/25 16:21	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/07/25 16:21	1
cis-1,2-Dichloroethene	4.67		1.00	0.210	ug/L			05/07/25 16:21	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/07/25 16:21	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/07/25 16:21	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/07/25 16:21	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/07/25 16:21	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/07/25 16:21	1
Styrene	<1.00		1.00	0.370	ug/L			05/07/25 16:21	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/07/25 16:21	1
Toluene	<1.00		1.00	0.430	ug/L			05/07/25 16:21	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/07/25 16:21	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/07/25 16:21	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/07/25 16:21	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/07/25 16:21	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/07/25 16:21	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/07/25 16:21	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/07/25 16:21	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/07/25 16:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	114		76 - 130		05/07/25 16:21	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

Client Sample ID: MW-15R

Lab Sample ID: 310-305613-9

Date Collected: 05/01/25 15:05

Matrix: Water

Date Received: 05/02/25 16:40

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		80 - 120		05/07/25 16:21	1
4-Bromofluorobenzene (Surr)	99		80 - 120		05/07/25 16:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00146	J	0.00200	0.000530	mg/L		05/08/25 09:30	05/11/25 21:17	1
Barium	0.325		0.00200	0.000660	mg/L		05/08/25 09:30	05/11/25 21:17	1
Cadmium	0.000121	J	0.000200	0.000100	mg/L		05/08/25 09:30	05/11/25 21:17	1
Cobalt	0.00109		0.000500	0.000170	mg/L		05/08/25 09:30	05/11/25 21:17	1
Copper	<0.00500		0.00500	0.00320	mg/L		05/08/25 09:30	05/11/25 21:17	1
Lead	0.000443	J	0.000500	0.000330	mg/L		05/08/25 09:30	05/11/25 21:17	1
Nickel	0.0113		0.00500	0.00230	mg/L		05/08/25 09:30	05/11/25 21:17	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/08/25 09:30	05/11/25 21:17	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/08/25 09:30	05/11/25 21:17	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		05/08/25 09:30	05/11/25 21:17	1
Zinc	<0.0200		0.0200	0.0130	mg/L		05/08/25 09:30	05/11/25 21:17	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			05/07/25 15:33	1

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

Client Sample ID: MW-D

Lab Sample ID: 310-305613-10

Date Collected: 05/01/25 12:32

Matrix: Water

Date Received: 05/02/25 16:40

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			05/07/25 16:43	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/07/25 16:43	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/07/25 16:43	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/07/25 16:43	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/07/25 16:43	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/07/25 16:43	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/07/25 16:43	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/07/25 16:43	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/07/25 16:43	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/07/25 16:43	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/07/25 16:43	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/07/25 16:43	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/07/25 16:43	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/07/25 16:43	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/07/25 16:43	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/07/25 16:43	1
Acetone	<10.0		10.0	3.10	ug/L			05/07/25 16:43	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/07/25 16:43	1
Benzene	<0.500		0.500	0.220	ug/L			05/07/25 16:43	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/07/25 16:43	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/07/25 16:43	1
Bromoform	<5.00		5.00	0.780	ug/L			05/07/25 16:43	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/07/25 16:43	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/07/25 16:43	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/07/25 16:43	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/07/25 16:43	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/07/25 16:43	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/07/25 16:43	1
Chloroform	<3.00		3.00	1.30	ug/L			05/07/25 16:43	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/07/25 16:43	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/07/25 16:43	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/07/25 16:43	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/07/25 16:43	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/07/25 16:43	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/07/25 16:43	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/07/25 16:43	1
Styrene	<1.00		1.00	0.370	ug/L			05/07/25 16:43	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/07/25 16:43	1
Toluene	<1.00		1.00	0.430	ug/L			05/07/25 16:43	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/07/25 16:43	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/07/25 16:43	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/07/25 16:43	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/07/25 16:43	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/07/25 16:43	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/07/25 16:43	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/07/25 16:43	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/07/25 16:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	111		76 - 130		05/07/25 16:43	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

Client Sample ID: MW-D

Lab Sample ID: 310-305613-10

Date Collected: 05/01/25 12:32

Matrix: Water

Date Received: 05/02/25 16:40

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		80 - 120		05/07/25 16:43	1
4-Bromofluorobenzene (Surr)	101		80 - 120		05/07/25 16:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/08/25 09:30	05/09/25 18:49	1
Barium	0.217		0.00200	0.000660	mg/L		05/08/25 09:30	05/09/25 18:49	1
Cadmium	0.000167	J	0.000200	0.000100	mg/L		05/08/25 09:30	05/09/25 18:49	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/08/25 09:30	05/09/25 18:49	1
Copper	<0.00500		0.00500	0.00320	mg/L		05/08/25 09:30	05/09/25 18:49	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/08/25 09:30	05/09/25 18:49	1
Nickel	0.00576		0.00500	0.00230	mg/L		05/08/25 09:30	05/10/25 18:48	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/08/25 09:30	05/09/25 18:49	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/08/25 09:30	05/09/25 18:49	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		05/08/25 09:30	05/09/25 18:49	1
Zinc	<0.0200		0.0200	0.0130	mg/L		05/08/25 09:30	05/10/25 18:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	2.25		1.88	1.31	mg/L			05/07/25 15:33	1

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

Client Sample ID: Trip Blank 1

Lab Sample ID: 310-305613-11

Date Collected: 05/01/25 00:00

Matrix: Water

Date Received: 05/02/25 16:40

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			05/06/25 23:03	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/06/25 23:03	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/06/25 23:03	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/06/25 23:03	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/06/25 23:03	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/06/25 23:03	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/06/25 23:03	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/06/25 23:03	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/06/25 23:03	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/06/25 23:03	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/06/25 23:03	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/06/25 23:03	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/06/25 23:03	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/06/25 23:03	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/06/25 23:03	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/06/25 23:03	1
Acetone	<10.0		10.0	3.10	ug/L			05/06/25 23:03	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/06/25 23:03	1
Benzene	<0.500		0.500	0.220	ug/L			05/06/25 23:03	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/06/25 23:03	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/06/25 23:03	1
Bromoform	<5.00		5.00	0.780	ug/L			05/06/25 23:03	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/06/25 23:03	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/06/25 23:03	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/06/25 23:03	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/06/25 23:03	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/06/25 23:03	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/06/25 23:03	1
Chloroform	<3.00		3.00	1.30	ug/L			05/06/25 23:03	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/06/25 23:03	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/06/25 23:03	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/06/25 23:03	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/06/25 23:03	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/06/25 23:03	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/06/25 23:03	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/06/25 23:03	1
Styrene	<1.00		1.00	0.370	ug/L			05/06/25 23:03	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/06/25 23:03	1
Toluene	<1.00		1.00	0.430	ug/L			05/06/25 23:03	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/06/25 23:03	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/06/25 23:03	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/06/25 23:03	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/06/25 23:03	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/06/25 23:03	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/06/25 23:03	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/06/25 23:03	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/06/25 23:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	114		76 - 130		05/06/25 23:03	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

Client Sample ID: Trip Blank 1

Lab Sample ID: 310-305613-11

Date Collected: 05/01/25 00:00

Matrix: Water

Date Received: 05/02/25 16:40

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120		05/06/25 23:03	1
4-Bromofluorobenzene (Surr)	102		80 - 120		05/06/25 23:03	1

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

Client Sample ID: Trip Blank 2

Lab Sample ID: 310-305613-12

Date Collected: 05/01/25 00:00

Matrix: Water

Date Received: 05/02/25 16:40

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			05/06/25 23:26	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/06/25 23:26	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/06/25 23:26	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/06/25 23:26	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/06/25 23:26	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/06/25 23:26	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/06/25 23:26	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/06/25 23:26	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/06/25 23:26	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/06/25 23:26	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/06/25 23:26	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/06/25 23:26	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/06/25 23:26	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/06/25 23:26	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/06/25 23:26	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/06/25 23:26	1
Acetone	<10.0		10.0	3.10	ug/L			05/06/25 23:26	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/06/25 23:26	1
Benzene	<0.500		0.500	0.220	ug/L			05/06/25 23:26	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/06/25 23:26	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/06/25 23:26	1
Bromoform	<5.00		5.00	0.780	ug/L			05/06/25 23:26	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/06/25 23:26	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/06/25 23:26	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/06/25 23:26	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/06/25 23:26	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/06/25 23:26	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/06/25 23:26	1
Chloroform	<3.00		3.00	1.30	ug/L			05/06/25 23:26	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/06/25 23:26	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/06/25 23:26	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/06/25 23:26	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/06/25 23:26	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/06/25 23:26	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/06/25 23:26	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/06/25 23:26	1
Styrene	<1.00		1.00	0.370	ug/L			05/06/25 23:26	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/06/25 23:26	1
Toluene	<1.00		1.00	0.430	ug/L			05/06/25 23:26	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/06/25 23:26	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/06/25 23:26	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/06/25 23:26	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/06/25 23:26	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/06/25 23:26	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/06/25 23:26	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/06/25 23:26	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/06/25 23:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	114		76 - 130		05/06/25 23:26	1

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Client Sample Results

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

Client Sample ID: Trip Blank 2

Lab Sample ID: 310-305613-12

Date Collected: 05/01/25 00:00

Matrix: Water

Date Received: 05/02/25 16:40

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		80 - 120		05/06/25 23:26	1
4-Bromofluorobenzene (Surr)	97		80 - 120		05/06/25 23:26	1

Definitions/Glossary

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

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
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: Sac County Sanitary Landfill

Job ID: 310-305613-1

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)
310-305613-1	MW-1	114	93	99
310-305613-2	MW-2	111	93	102
310-305613-3	MW-5R	110	93	98
310-305613-4	MW-6R	117	94	102
310-305613-5	MW-10	115	96	100
310-305613-6	MW-12	115	92	100
310-305613-7	MW-13	111	95	99
310-305613-8	MW-14	114	93	100
310-305613-9	MW-15R	114	92	99
310-305613-10	MW-D	111	94	101
310-305613-11	Trip Blank 1	114	96	102
310-305613-12	Trip Blank 2	114	94	97
LCS 310-453819/8	Lab Control Sample	97	101	99
LCS 310-453819/9	Lab Control Sample	115	93	100
LCS 310-453821/8	Lab Control Sample	99	99	99
LCS 310-453821/9	Lab Control Sample	116	96	94
MB 310-453819/7	Method Blank	116	93	99
MB 310-453821/7	Method Blank	109	97	99
Surrogate Legend				
DBFM = Dibromofluoromethane (Surr)				
TOL = Toluene-d8 (Surr)				
BFB = 4-Bromofluorobenzene (Surr)				

Method: 8151A - Herbicides (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCPAA1 (34-142)	DCPAA2 (34-142)
310-305613-8	MW-14	68	70
LCS 410-641485/2-A	Lab Control Sample	70	65
LCS 410-641485/2-A - DL	Lab Control Sample	84	84
LCSD 410-641485/3-A - DL	Lab Control Sample Dup	79	79
LCSD 410-641485/3-A	Lab Control Sample Dup	62	60
MB 410-641485/1-A	Method Blank	62	56
Surrogate Legend			
DCPAA = DCAA			

QC Sample Results

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

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

Lab Sample ID: MB 310-453819/7

Matrix: Water

Analysis Batch: 453819

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			05/06/25 20:48	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/06/25 20:48	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/06/25 20:48	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/06/25 20:48	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/06/25 20:48	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/06/25 20:48	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/06/25 20:48	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/06/25 20:48	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/06/25 20:48	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/06/25 20:48	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/06/25 20:48	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/06/25 20:48	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/06/25 20:48	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/06/25 20:48	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/06/25 20:48	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/06/25 20:48	1
Acetone	<10.0		10.0	3.10	ug/L			05/06/25 20:48	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/06/25 20:48	1
Benzene	<0.500		0.500	0.220	ug/L			05/06/25 20:48	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/06/25 20:48	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/06/25 20:48	1
Bromoform	<5.00		5.00	0.780	ug/L			05/06/25 20:48	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/06/25 20:48	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/06/25 20:48	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/06/25 20:48	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/06/25 20:48	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/06/25 20:48	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/06/25 20:48	1
Chloroform	<3.00		3.00	1.30	ug/L			05/06/25 20:48	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/06/25 20:48	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/06/25 20:48	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/06/25 20:48	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/06/25 20:48	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/06/25 20:48	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/06/25 20:48	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/06/25 20:48	1
Styrene	<1.00		1.00	0.370	ug/L			05/06/25 20:48	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/06/25 20:48	1
Toluene	<1.00		1.00	0.430	ug/L			05/06/25 20:48	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/06/25 20:48	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/06/25 20:48	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/06/25 20:48	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/06/25 20:48	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/06/25 20:48	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/06/25 20:48	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/06/25 20:48	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/06/25 20:48	1

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QC Sample Results

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

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

Lab Sample ID: MB 310-453819/7

Matrix: Water

Analysis Batch: 453819

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	116		76 - 130		05/06/25 20:48	1
Toluene-d8 (Surr)	93		80 - 120		05/06/25 20:48	1
4-Bromofluorobenzene (Surr)	99		80 - 120		05/06/25 20:48	1

Lab Sample ID: LCS 310-453819/8

Matrix: Water

Analysis Batch: 453819

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	20.43		ug/L		102	70 - 121
1,1,1-Trichloroethane	20.0	20.02		ug/L		100	69 - 130
1,1,1,2,2-Tetrachloroethane	20.0	18.36		ug/L		92	70 - 122
1,1,2-Trichloroethane	20.0	18.56		ug/L		93	75 - 121
1,1-Dichloroethane	20.0	19.81		ug/L		99	69 - 127
1,1-Dichloroethene	20.0	21.94		ug/L		110	64 - 134
1,2,3-Trichloropropane	20.0	18.10		ug/L		91	70 - 122
1,2-Dibromo-3-Chloropropane	20.0	18.73		ug/L		94	62 - 132
1,2-Dibromoethane (EDB)	20.0	17.54		ug/L		88	74 - 122
1,2-Dichlorobenzene	20.0	19.30		ug/L		96	74 - 120
1,2-Dichloroethane	20.0	21.07		ug/L		105	68 - 125
1,2-Dichloropropane	20.0	20.27		ug/L		101	72 - 128
1,4-Dichlorobenzene	20.0	18.64		ug/L		93	72 - 120
2-Butanone (MEK)	40.0	38.70		ug/L		97	60 - 134
2-Hexanone	40.0	35.98		ug/L		90	62 - 139
4-Methyl-2-pentanone (MIBK)	40.0	37.72		ug/L		94	62 - 136
Acetone	40.0	42.78		ug/L		107	59 - 136
Acrylonitrile	200	201.2		ug/L		101	50 - 150
Benzene	20.0	19.91		ug/L		100	71 - 125
Bromochloromethane	20.0	20.91		ug/L		105	69 - 131
Bromodichloromethane	20.0	19.83		ug/L		99	70 - 122
Bromoform	20.0	18.54		ug/L		93	62 - 122
Carbon disulfide	20.0	21.93		ug/L		110	58 - 137
Carbon tetrachloride	20.0	20.78		ug/L		104	63 - 136
Chlorobenzene	20.0	19.53		ug/L		98	74 - 120
Chlorodibromomethane	20.0	18.14		ug/L		91	69 - 121
Chloroform	20.0	21.36		ug/L		107	72 - 122
cis-1,2-Dichloroethene	20.0	20.78		ug/L		104	72 - 123
cis-1,3-Dichloropropene	20.0	18.33		ug/L		92	72 - 123
Dibromomethane	20.0	22.16		ug/L		111	72 - 122
Ethylbenzene	20.0	20.23		ug/L		101	75 - 120
Iodomethane	20.0	13.81		ug/L		69	18 - 150
Methylene Chloride	20.0	21.76		ug/L		109	72 - 128
Styrene	20.0	18.37		ug/L		92	74 - 122
Tetrachloroethene	20.0	19.77		ug/L		99	70 - 128
Toluene	20.0	21.00		ug/L		105	74 - 120
trans-1,2-Dichloroethene	20.0	20.31		ug/L		102	67 - 127
trans-1,3-Dichloropropene	20.0	17.60		ug/L		88	67 - 123
trans-1,4-Dichloro-2-butene	20.0	17.96		ug/L		90	50 - 150

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

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

Lab Sample ID: LCS 310-453819/8

Matrix: Water

Analysis Batch: 453819

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	18.51		ug/L		93	70 - 128
Vinyl acetate	40.0	33.25		ug/L		83	50 - 150
Xylenes, Total	40.0	41.02		ug/L		103	74 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	97		76 - 130
Toluene-d8 (Surr)	101		80 - 120
4-Bromofluorobenzene (Surr)	99		80 - 120

Lab Sample ID: LCS 310-453819/9

Matrix: Water

Analysis Batch: 453819

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	13.77		ug/L		69	33 - 138
Chloroethane	20.0	17.37		ug/L		87	59 - 139
Chloromethane	20.0	18.23		ug/L		91	52 - 146
Trichlorofluoromethane	20.0	17.70		ug/L		88	55 - 150
Vinyl chloride	20.0	16.06		ug/L		80	60 - 142

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	115		76 - 130
Toluene-d8 (Surr)	93		80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120

Lab Sample ID: MB 310-453821/7

Matrix: Water

Analysis Batch: 453821

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			05/07/25 08:27	1
1,1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/07/25 08:27	1
1,1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/07/25 08:27	1
1,1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/07/25 08:27	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/07/25 08:27	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/07/25 08:27	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/07/25 08:27	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/07/25 08:27	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/07/25 08:27	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/07/25 08:27	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/07/25 08:27	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/07/25 08:27	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/07/25 08:27	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/07/25 08:27	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/07/25 08:27	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/07/25 08:27	1
Acetone	<10.0		10.0	3.10	ug/L			05/07/25 08:27	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/07/25 08:27	1

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

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

Lab Sample ID: MB 310-453821/7

Matrix: Water

Analysis Batch: 453821

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.500		0.500	0.220	ug/L			05/07/25 08:27	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/07/25 08:27	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/07/25 08:27	1
Bromoform	<5.00		5.00	0.780	ug/L			05/07/25 08:27	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/07/25 08:27	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/07/25 08:27	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/07/25 08:27	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/07/25 08:27	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/07/25 08:27	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/07/25 08:27	1
Chloroform	<3.00		3.00	1.30	ug/L			05/07/25 08:27	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/07/25 08:27	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/07/25 08:27	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/07/25 08:27	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/07/25 08:27	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/07/25 08:27	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/07/25 08:27	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/07/25 08:27	1
Styrene	<1.00		1.00	0.370	ug/L			05/07/25 08:27	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/07/25 08:27	1
Toluene	<1.00		1.00	0.430	ug/L			05/07/25 08:27	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/07/25 08:27	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/07/25 08:27	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/07/25 08:27	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/07/25 08:27	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/07/25 08:27	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/07/25 08:27	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/07/25 08:27	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/07/25 08:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	109		76 - 130		05/07/25 08:27	1
Toluene-d8 (Surr)	97		80 - 120		05/07/25 08:27	1
4-Bromofluorobenzene (Surr)	99		80 - 120		05/07/25 08:27	1

Lab Sample ID: LCS 310-453821/8

Matrix: Water

Analysis Batch: 453821

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	18.23		ug/L		91	70 - 121
1,1,1-Trichloroethane	20.0	19.91		ug/L		100	69 - 130
1,1,2,2-Tetrachloroethane	20.0	16.92		ug/L		85	70 - 122
1,1,2-Trichloroethane	20.0	17.93		ug/L		90	75 - 121
1,1-Dichloroethane	20.0	20.87		ug/L		104	69 - 127
1,1-Dichloroethene	20.0	21.00		ug/L		105	64 - 134
1,2,3-Trichloropropane	20.0	16.84		ug/L		84	70 - 122
1,2-Dibromo-3-Chloropropane	20.0	18.97		ug/L		95	62 - 132

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QC Sample Results

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

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

Lab Sample ID: LCS 310-453821/8

Matrix: Water

Analysis Batch: 453821

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	20.0	17.28		ug/L		86	74 - 122
1,2-Dichlorobenzene	20.0	18.56		ug/L		93	74 - 120
1,2-Dichloroethane	20.0	20.55		ug/L		103	68 - 125
1,2-Dichloropropane	20.0	19.90		ug/L		100	72 - 128
1,4-Dichlorobenzene	20.0	17.74		ug/L		89	72 - 120
2-Butanone (MEK)	40.0	37.11		ug/L		93	60 - 134
2-Hexanone	40.0	35.10		ug/L		88	62 - 139
4-Methyl-2-pentanone (MIBK)	40.0	37.24		ug/L		93	62 - 136
Acetone	40.0	40.80		ug/L		102	59 - 136
Acrylonitrile	200	202.8		ug/L		101	50 - 150
Benzene	20.0	20.06		ug/L		100	71 - 125
Bromochloromethane	20.0	21.07		ug/L		105	69 - 131
Bromodichloromethane	20.0	18.92		ug/L		95	70 - 122
Bromoform	20.0	16.93		ug/L		85	62 - 122
Carbon disulfide	20.0	21.73		ug/L		109	58 - 137
Carbon tetrachloride	20.0	21.66		ug/L		108	63 - 136
Chlorobenzene	20.0	18.67		ug/L		93	74 - 120
Chlorodibromomethane	20.0	17.03		ug/L		85	69 - 121
Chloroform	20.0	21.52		ug/L		108	72 - 122
cis-1,2-Dichloroethene	20.0	21.20		ug/L		106	72 - 123
cis-1,3-Dichloropropene	20.0	17.21		ug/L		86	72 - 123
Dibromomethane	20.0	20.44		ug/L		102	72 - 122
Ethylbenzene	20.0	19.25		ug/L		96	75 - 120
Iodomethane	20.0	14.08		ug/L		70	18 - 150
Methylene Chloride	20.0	21.41		ug/L		107	72 - 128
Styrene	20.0	16.98		ug/L		85	74 - 122
Tetrachloroethene	20.0	19.20		ug/L		96	70 - 128
Toluene	20.0	21.09		ug/L		105	74 - 120
trans-1,2-Dichloroethene	20.0	20.50		ug/L		103	67 - 127
trans-1,3-Dichloropropene	20.0	16.48		ug/L		82	67 - 123
trans-1,4-Dichloro-2-butene	20.0	16.17		ug/L		81	50 - 150
Trichloroethene	20.0	18.20		ug/L		91	70 - 128
Vinyl acetate	40.0	31.69		ug/L		79	50 - 150
Xylenes, Total	40.0	38.02		ug/L		95	74 - 121

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

Lab Sample ID: LCS 310-453821/9

Matrix: Water

Analysis Batch: 453821

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	14.05		ug/L		70	33 - 138
Chloroethane	20.0	17.34		ug/L		87	59 - 139
Chloromethane	20.0	18.05		ug/L		90	52 - 146

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QC Sample Results

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

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

Lab Sample ID: LCS 310-453821/9

Matrix: Water

Analysis Batch: 453821

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Trichlorofluoromethane	20.0	18.10		ug/L		90	55 - 150
Vinyl chloride	20.0	16.59		ug/L		83	60 - 142

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	116		76 - 130
Toluene-d8 (Surr)	96		80 - 120
4-Bromofluorobenzene (Surr)	94		80 - 120

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 410-641485/1-A

Matrix: Water

Analysis Batch: 641715

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 641485

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.600		0.600	0.250	ug/L		05/08/25 15:04	05/09/25 07:26	1
Silvex (2,4,5-TP)	<0.0500		0.0500	0.0220	ug/L		05/08/25 15:04	05/09/25 07:26	1
2,4,5-T	<0.150		0.150	0.0650	ug/L		05/08/25 15:04	05/09/25 07:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCAA	62		34 - 142	05/08/25 15:04	05/09/25 07:26	1
DCAA	56		34 - 142	05/08/25 15:04	05/09/25 07:26	1

Lab Sample ID: LCS 410-641485/2-A

Matrix: Water

Analysis Batch: 641715

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 641485

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-D	2.00	1.421		ug/L		71	53 - 159
2,4,5-T	0.400	0.3003		ug/L		75	57 - 171

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCAA	70		34 - 142
DCAA	65		34 - 142

Lab Sample ID: LCSD 410-641485/3-A

Matrix: Water

Analysis Batch: 641715

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 641485

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-D	2.00	1.227		ug/L		61	53 - 159	15	30
2,4,5-T	0.400	0.2632		ug/L		66	57 - 171	13	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCAA	62		34 - 142
DCAA	60		34 - 142

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QC Sample Results

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

Method: 8151A - Herbicides (GC) - DL

Lab Sample ID: LCS 410-641485/2-A

Matrix: Water

Analysis Batch: 641715

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 641485

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silvex (2,4,5-TP) - DL	4.01	2.625		ug/L		65	62 - 170
Surrogate	%Recovery	LCS Qualifier	Limits				
DCAA - DL	84		34 - 142				
DCAA - DL	84		34 - 142				

Lab Sample ID: LCSD 410-641485/3-A

Matrix: Water

Analysis Batch: 641715

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 641485

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silvex (2,4,5-TP) - DL	4.01	2.486		ug/L		62	62 - 170	5	30
Surrogate	%Recovery	LCSD Qualifier	Limits						
DCAA - DL	79		34 - 142						
DCAA - DL	79		34 - 142						

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-453978/1-A

Matrix: Water

Analysis Batch: 454379

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 453978

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/08/25 09:30	05/11/25 19:55	1
Barium	<0.00200		0.00200	0.000660	mg/L		05/08/25 09:30	05/11/25 19:55	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/08/25 09:30	05/11/25 19:55	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/08/25 09:30	05/11/25 19:55	1
Copper	<0.00500		0.00500	0.00320	mg/L		05/08/25 09:30	05/11/25 19:55	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/08/25 09:30	05/11/25 19:55	1
Nickel	<0.00500		0.00500	0.00230	mg/L		05/08/25 09:30	05/11/25 19:55	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/08/25 09:30	05/11/25 19:55	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/08/25 09:30	05/11/25 19:55	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		05/08/25 09:30	05/11/25 19:55	1
Zinc	<0.0200		0.0200	0.0130	mg/L		05/08/25 09:30	05/11/25 19:55	1

Lab Sample ID: LCS 310-453978/2-A

Matrix: Water

Analysis Batch: 454379

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 453978

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.2014		mg/L		101	80 - 120
Barium	0.100	0.1012		mg/L		101	80 - 120
Cadmium	0.100	0.09819		mg/L		98	80 - 120
Cobalt	0.100	0.1022		mg/L		102	80 - 120
Copper	0.200	0.2026		mg/L		101	80 - 120
Lead	0.200	0.2065		mg/L		103	80 - 120
Nickel	0.200	0.2078		mg/L		104	80 - 120

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QC Sample Results

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

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

Lab Sample ID: LCS 310-453978/2-A

Matrix: Water

Analysis Batch: 454379

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 453978

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	0.400	0.3776		mg/L		94	80 - 120
Thallium	0.100	0.08926		mg/L		89	80 - 120
Vanadium	0.100	0.1018		mg/L		102	80 - 120
Zinc	0.200	0.1962		mg/L		98	80 - 120

Lab Sample ID: MB 310-453980/1-A

Matrix: Water

Analysis Batch: 454358

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 453980

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/08/25 09:30	05/09/25 17:46	1
Barium	<0.00200		0.00200	0.000660	mg/L		05/08/25 09:30	05/09/25 17:46	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/08/25 09:30	05/09/25 17:46	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/08/25 09:30	05/09/25 17:46	1
Copper	<0.00500		0.00500	0.00320	mg/L		05/08/25 09:30	05/09/25 17:46	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/08/25 09:30	05/09/25 17:46	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/08/25 09:30	05/09/25 17:46	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/08/25 09:30	05/09/25 17:46	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		05/08/25 09:30	05/09/25 17:46	1
Zinc	<0.0200		0.0200	0.0130	mg/L		05/08/25 09:30	05/09/25 17:46	1

Lab Sample ID: MB 310-453980/1-A

Matrix: Water

Analysis Batch: 454361

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 453980

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<0.00500		0.00500	0.00230	mg/L		05/08/25 09:30	05/10/25 17:38	1

Lab Sample ID: LCS 310-453980/2-A

Matrix: Water

Analysis Batch: 454358

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 453980

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.2027		mg/L		101	80 - 120
Barium	0.100	0.1042		mg/L		104	80 - 120
Cadmium	0.100	0.09908		mg/L		99	80 - 120
Cobalt	0.100	0.1037		mg/L		104	80 - 120
Copper	0.200	0.1986		mg/L		99	80 - 120
Lead	0.200	0.2181		mg/L		109	80 - 120
Selenium	0.400	0.3859		mg/L		96	80 - 120
Thallium	0.100	0.08602		mg/L		86	80 - 120
Vanadium	0.100	0.1000		mg/L		100	80 - 120
Zinc	0.200	0.1833		mg/L		92	80 - 120

Lab Sample ID: LCS 310-453980/2-A

Matrix: Water

Analysis Batch: 454361

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 453980

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nickel	0.200	0.1973		mg/L		99	80 - 120

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QC Sample Results

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-453981/1-A

Matrix: Water

Analysis Batch: 454358

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 453981

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/08/25 09:30	05/09/25 18:58	1
Barium	<0.00200		0.00200	0.000660	mg/L		05/08/25 09:30	05/09/25 18:58	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/08/25 09:30	05/09/25 18:58	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/08/25 09:30	05/09/25 18:58	1
Copper	<0.00500		0.00500	0.00320	mg/L		05/08/25 09:30	05/09/25 18:58	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/08/25 09:30	05/09/25 18:58	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/08/25 09:30	05/09/25 18:58	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/08/25 09:30	05/09/25 18:58	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		05/08/25 09:30	05/09/25 18:58	1

Lab Sample ID: MB 310-453981/1-A

Matrix: Water

Analysis Batch: 454361

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 453981

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<0.00500		0.00500	0.00230	mg/L		05/08/25 09:30	05/10/25 19:00	1
Zinc	<0.0200		0.0200	0.0130	mg/L		05/08/25 09:30	05/10/25 19:00	1

Lab Sample ID: LCS 310-453981/2-A

Matrix: Water

Analysis Batch: 454358

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 453981

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.1956		mg/L		98	80 - 120
Barium	0.100	0.1012		mg/L		101	80 - 120
Cadmium	0.100	0.09568		mg/L		96	80 - 120
Cobalt	0.100	0.1005		mg/L		101	80 - 120
Copper	0.200	0.1923		mg/L		96	80 - 120
Lead	0.200	0.2107		mg/L		105	80 - 120
Selenium	0.400	0.3741		mg/L		94	80 - 120
Thallium	0.100	0.09082		mg/L		91	80 - 120
Vanadium	0.100	0.09733		mg/L		97	80 - 120

Lab Sample ID: LCS 310-453981/2-A

Matrix: Water

Analysis Batch: 454361

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 453981

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nickel	0.200	0.1934		mg/L		97	80 - 120
Zinc	0.200	0.1929		mg/L		96	80 - 120

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

Lab Sample ID: MB 310-454045/1

Matrix: Water

Analysis Batch: 454045

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			05/07/25 15:33	1

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QC Sample Results

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

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

Lab Sample ID: LCS 310-454045/2				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 454045							
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	105.0		mg/L		105	81 - 116

QC Association Summary

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

GC/MS VOA

Analysis Batch: 453819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305613-11	Trip Blank 1	Total/NA	Water	8260D	
310-305613-12	Trip Blank 2	Total/NA	Water	8260D	
MB 310-453819/7	Method Blank	Total/NA	Water	8260D	
LCS 310-453819/8	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-453819/9	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 453821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305613-1	MW-1	Total/NA	Water	8260D	
310-305613-2	MW-2	Total/NA	Water	8260D	
310-305613-3	MW-5R	Total/NA	Water	8260D	
310-305613-4	MW-6R	Total/NA	Water	8260D	
310-305613-5	MW-10	Total/NA	Water	8260D	
310-305613-6	MW-12	Total/NA	Water	8260D	
310-305613-7	MW-13	Total/NA	Water	8260D	
310-305613-8	MW-14	Total/NA	Water	8260D	
310-305613-9	MW-15R	Total/NA	Water	8260D	
310-305613-10	MW-D	Total/NA	Water	8260D	
MB 310-453821/7	Method Blank	Total/NA	Water	8260D	
LCS 310-453821/8	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-453821/9	Lab Control Sample	Total/NA	Water	8260D	

GC Semi VOA

Prep Batch: 641485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305613-8	MW-14	Total/NA	Water	8151A	
MB 410-641485/1-A	Method Blank	Total/NA	Water	8151A	
LCS 410-641485/2-A - DL	Lab Control Sample	Total/NA	Water	8151A	
LCS 410-641485/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 410-641485/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	
LCSD 410-641485/3-A - DL	Lab Control Sample Dup	Total/NA	Water	8151A	

Analysis Batch: 641715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305613-8	MW-14	Total/NA	Water	8151A	641485
MB 410-641485/1-A	Method Blank	Total/NA	Water	8151A	641485
LCS 410-641485/2-A	Lab Control Sample	Total/NA	Water	8151A	641485
LCS 410-641485/2-A - DL	Lab Control Sample	Total/NA	Water	8151A	641485
LCSD 410-641485/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	641485
LCSD 410-641485/3-A - DL	Lab Control Sample Dup	Total/NA	Water	8151A	641485

Metals

Prep Batch: 453978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305613-4	MW-6R	Total/NA	Water	3005A	
310-305613-9	MW-15R	Total/NA	Water	3005A	
MB 310-453978/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-453978/2-A	Lab Control Sample	Total/NA	Water	3005A	

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

Metals

Prep Batch: 453980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305613-1	MW-1	Total/NA	Water	3005A	
310-305613-2	MW-2	Total/NA	Water	3005A	
310-305613-3	MW-5R	Total/NA	Water	3005A	
310-305613-5	MW-10	Total/NA	Water	3005A	
310-305613-6	MW-12	Total/NA	Water	3005A	
310-305613-7	MW-13	Total/NA	Water	3005A	
310-305613-10	MW-D	Total/NA	Water	3005A	
MB 310-453980/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-453980/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 453981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305613-8	MW-14	Total/NA	Water	3005A	
MB 310-453981/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-453981/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 454358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305613-1	MW-1	Total/NA	Water	6020B	453980
310-305613-2	MW-2	Total/NA	Water	6020B	453980
310-305613-3	MW-5R	Total/NA	Water	6020B	453980
310-305613-5	MW-10	Total/NA	Water	6020B	453980
310-305613-6	MW-12	Total/NA	Water	6020B	453980
310-305613-7	MW-13	Total/NA	Water	6020B	453980
310-305613-8	MW-14	Total/NA	Water	6020B	453981
310-305613-10	MW-D	Total/NA	Water	6020B	453980
MB 310-453980/1-A	Method Blank	Total/NA	Water	6020B	453980
MB 310-453981/1-A	Method Blank	Total/NA	Water	6020B	453981
LCS 310-453980/2-A	Lab Control Sample	Total/NA	Water	6020B	453980
LCS 310-453981/2-A	Lab Control Sample	Total/NA	Water	6020B	453981

Analysis Batch: 454361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305613-1	MW-1	Total/NA	Water	6020B	453980
310-305613-2	MW-2	Total/NA	Water	6020B	453980
310-305613-3	MW-5R	Total/NA	Water	6020B	453980
310-305613-5	MW-10	Total/NA	Water	6020B	453980
310-305613-6	MW-12	Total/NA	Water	6020B	453980
310-305613-7	MW-13	Total/NA	Water	6020B	453980
310-305613-8	MW-14	Total/NA	Water	6020B	453981
310-305613-10	MW-D	Total/NA	Water	6020B	453980
MB 310-453980/1-A	Method Blank	Total/NA	Water	6020B	453980
MB 310-453981/1-A	Method Blank	Total/NA	Water	6020B	453981
LCS 310-453980/2-A	Lab Control Sample	Total/NA	Water	6020B	453980
LCS 310-453981/2-A	Lab Control Sample	Total/NA	Water	6020B	453981

Analysis Batch: 454379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305613-4	MW-6R	Total/NA	Water	6020B	453978
310-305613-9	MW-15R	Total/NA	Water	6020B	453978
MB 310-453978/1-A	Method Blank	Total/NA	Water	6020B	453978

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

Metals (Continued)

Analysis Batch: 454379 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 310-453978/2-A	Lab Control Sample	Total/NA	Water	6020B	453978

General Chemistry

Analysis Batch: 454045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305613-1	MW-1	Total/NA	Water	I-3765-85	
310-305613-2	MW-2	Total/NA	Water	I-3765-85	
310-305613-3	MW-5R	Total/NA	Water	I-3765-85	
310-305613-4	MW-6R	Total/NA	Water	I-3765-85	
310-305613-5	MW-10	Total/NA	Water	I-3765-85	
310-305613-6	MW-12	Total/NA	Water	I-3765-85	
310-305613-7	MW-13	Total/NA	Water	I-3765-85	
310-305613-8	MW-14	Total/NA	Water	I-3765-85	
310-305613-9	MW-15R	Total/NA	Water	I-3765-85	
310-305613-10	MW-D	Total/NA	Water	I-3765-85	
MB 310-454045/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-454045/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Lab Chronicle

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

Client Sample ID: MW-1

Lab Sample ID: 310-305613-1

Date Collected: 05/01/25 14:02

Matrix: Water

Date Received: 05/02/25 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	453821	WSE8	EET CF	05/07/25 13:20
Total/NA	Prep	3005A			453980	QTZ5	EET CF	05/08/25 09:30
Total/NA	Analysis	6020B		1	454358	ZRI4	EET CF	05/09/25 18:37
Total/NA	Prep	3005A			453980	QTZ5	EET CF	05/08/25 09:30
Total/NA	Analysis	6020B		1	454361	ZRI4	EET CF	05/10/25 18:28
Total/NA	Analysis	I-3765-85		1	454045	MDU9	EET CF	05/07/25 15:33

Client Sample ID: MW-2

Lab Sample ID: 310-305613-2

Date Collected: 05/01/25 11:55

Matrix: Water

Date Received: 05/02/25 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	453821	WSE8	EET CF	05/07/25 13:43
Total/NA	Prep	3005A			453980	QTZ5	EET CF	05/08/25 09:30
Total/NA	Analysis	6020B		1	454358	ZRI4	EET CF	05/09/25 18:46
Total/NA	Prep	3005A			453980	QTZ5	EET CF	05/08/25 09:30
Total/NA	Analysis	6020B		1	454361	ZRI4	EET CF	05/10/25 18:45
Total/NA	Analysis	I-3765-85		1	454045	MDU9	EET CF	05/07/25 15:33

Client Sample ID: MW-5R

Lab Sample ID: 310-305613-3

Date Collected: 05/01/25 12:32

Matrix: Water

Date Received: 05/02/25 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	453821	WSE8	EET CF	05/07/25 14:05
Total/NA	Prep	3005A			453980	QTZ5	EET CF	05/08/25 09:30
Total/NA	Analysis	6020B		1	454358	ZRI4	EET CF	05/09/25 18:44
Total/NA	Prep	3005A			453980	QTZ5	EET CF	05/08/25 09:30
Total/NA	Analysis	6020B		1	454361	ZRI4	EET CF	05/10/25 18:43
Total/NA	Analysis	I-3765-85		1	454045	MDU9	EET CF	05/07/25 15:33

Client Sample ID: MW-6R

Lab Sample ID: 310-305613-4

Date Collected: 05/01/25 13:25

Matrix: Water

Date Received: 05/02/25 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	453821	WSE8	EET CF	05/07/25 14:28
Total/NA	Prep	3005A			453978	QTZ5	EET CF	05/08/25 09:30
Total/NA	Analysis	6020B		1	454379	NFT2	EET CF	05/11/25 20:38
Total/NA	Analysis	I-3765-85		1	454045	MDU9	EET CF	05/07/25 15:33

Lab Chronicle

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

Client Sample ID: MW-10

Lab Sample ID: 310-305613-5

Date Collected: 05/01/25 14:37

Matrix: Water

Date Received: 05/02/25 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	453821	WSE8	EET CF	05/07/25 14:51
Total/NA	Prep	3005A			453980	QTZ5	EET CF	05/08/25 09:30
Total/NA	Analysis	6020B		1	454358	ZRI4	EET CF	05/09/25 18:41
Total/NA	Prep	3005A			453980	QTZ5	EET CF	05/08/25 09:30
Total/NA	Analysis	6020B		1	454361	ZRI4	EET CF	05/10/25 18:34
Total/NA	Analysis	I-3765-85		1	454045	MDU9	EET CF	05/07/25 15:33

Client Sample ID: MW-12

Lab Sample ID: 310-305613-6

Date Collected: 05/01/25 15:32

Matrix: Water

Date Received: 05/02/25 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	453821	WSE8	EET CF	05/07/25 15:13
Total/NA	Prep	3005A			453980	QTZ5	EET CF	05/08/25 09:30
Total/NA	Analysis	6020B		1	454358	ZRI4	EET CF	05/09/25 18:53
Total/NA	Prep	3005A			453980	QTZ5	EET CF	05/08/25 09:30
Total/NA	Analysis	6020B		1	454361	ZRI4	EET CF	05/10/25 18:54
Total/NA	Analysis	I-3765-85		1	454045	MDU9	EET CF	05/07/25 15:33

Client Sample ID: MW-13

Lab Sample ID: 310-305613-7

Date Collected: 05/01/25 12:56

Matrix: Water

Date Received: 05/02/25 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	453821	WSE8	EET CF	05/07/25 15:36
Total/NA	Prep	3005A			453980	QTZ5	EET CF	05/08/25 09:30
Total/NA	Analysis	6020B		1	454358	ZRI4	EET CF	05/09/25 18:51
Total/NA	Prep	3005A			453980	QTZ5	EET CF	05/08/25 09:30
Total/NA	Analysis	6020B		1	454361	ZRI4	EET CF	05/10/25 18:51
Total/NA	Analysis	I-3765-85		1	454045	MDU9	EET CF	05/07/25 15:33

Client Sample ID: MW-14

Lab Sample ID: 310-305613-8

Date Collected: 05/01/25 14:12

Matrix: Water

Date Received: 05/02/25 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	453821	WSE8	EET CF	05/07/25 15:58
Total/NA	Prep	8151A			641485	QJZ6	ELLE	05/08/25 15:04
Total/NA	Analysis	8151A		5	641715	UAMZ	ELLE	05/09/25 11:13
Total/NA	Prep	3005A			453981	QTZ5	EET CF	05/08/25 09:30
Total/NA	Analysis	6020B		1	454358	ZRI4	EET CF	05/09/25 20:10
Total/NA	Prep	3005A			453981	QTZ5	EET CF	05/08/25 09:30
Total/NA	Analysis	6020B		1	454361	ZRI4	EET CF	05/10/25 20:19
Total/NA	Analysis	I-3765-85		1	454045	MDU9	EET CF	05/07/25 15:33

Eurofins Cedar Falls

Lab Chronicle

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

Client Sample ID: MW-15R

Lab Sample ID: 310-305613-9

Date Collected: 05/01/25 15:05

Matrix: Water

Date Received: 05/02/25 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	453821	WSE8	EET CF	05/07/25 16:21
Total/NA	Prep	3005A			453978	QTZ5	EET CF	05/08/25 09:30
Total/NA	Analysis	6020B		1	454379	NFT2	EET CF	05/11/25 21:17
Total/NA	Analysis	I-3765-85		1	454045	MDU9	EET CF	05/07/25 15:33

Client Sample ID: MW-D

Lab Sample ID: 310-305613-10

Date Collected: 05/01/25 12:32

Matrix: Water

Date Received: 05/02/25 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	453821	WSE8	EET CF	05/07/25 16:43
Total/NA	Prep	3005A			453980	QTZ5	EET CF	05/08/25 09:30
Total/NA	Analysis	6020B		1	454358	ZRI4	EET CF	05/09/25 18:49
Total/NA	Prep	3005A			453980	QTZ5	EET CF	05/08/25 09:30
Total/NA	Analysis	6020B		1	454361	ZRI4	EET CF	05/10/25 18:48
Total/NA	Analysis	I-3765-85		1	454045	MDU9	EET CF	05/07/25 15:33

Client Sample ID: Trip Blank 1

Lab Sample ID: 310-305613-11

Date Collected: 05/01/25 00:00

Matrix: Water

Date Received: 05/02/25 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	453819	WSE8	EET CF	05/06/25 23:03

Client Sample ID: Trip Blank 2

Lab Sample ID: 310-305613-12

Date Collected: 05/01/25 00:00

Matrix: Water

Date Received: 05/02/25 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	453819	WSE8	EET CF	05/06/25 23:26

Laboratory References:

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

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

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

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-26
A2LA	Dept. of Energy	0001.01	11-30-26
A2LA	ISO/IEC 17025	0001.01	11-30-26
Alabama	State	43200	01-31-26
Alaska	State	PA00009	06-30-25
Alaska (UST)	State	17-027	12-30-26
Arizona	State	AZ0780	03-12-26
Arkansas DEQ	State	88-00660	08-09-25
California	State	2792	01-31-26
Colorado	State	PA00009	06-30-25
Connecticut	State	PH-0746	06-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-26
Delaware (DW)	State	N/A	01-31-26
Florida	NELAP	E87997	06-30-25
Georgia (DW)	State	C048	01-31-26
Illinois	NELAP	200027	01-31-26
Iowa	State	361	03-01-26
Kansas	NELAP	E-10151	10-31-25
Kentucky (DW)	State	KY90088	12-31-25
Kentucky (UST)	State	0001.01	11-30-26
Kentucky (WW)	State	KY90088	12-31-25
Louisiana (All)	NELAP	02055	06-30-25
Maine	State	2019012	03-12-27
Maryland	State	100	06-30-25
Massachusetts	State	M-PA009	06-30-25
Michigan	State	9930	01-31-26
Minnesota	NELAP	042-999-487	12-31-25
Mississippi	State	023	01-31-26
Missouri	State	450	01-31-28
Montana (DW)	State	0098	01-01-26
Nebraska	State	NE-OS-32-17	01-31-26
New Hampshire	NELAP	2730	01-10-26
New Jersey	NELAP	PA011	06-30-25
New York	NELAP	10670	04-01-26
North Carolina (DW)	State	42705	07-31-25
North Carolina (WW/SW)	State	521	12-31-25
North Dakota	State	R-205	01-31-24 *
Oklahoma	NELAP	9804	08-31-25
Oregon	NELAP	PA200001	09-11-25
Pennsylvania	NELAP	36-00037	01-31-26
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-29
Rhode Island	State	LAO00338	12-30-25
South Carolina	State	89002	05-11-25
Tennessee	State	02838	01-31-26

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Cedar Falls

Accreditation/Certification Summary

Client: SCS Engineers

Job ID: 310-305613-1

Project/Site: Sac County Sanitary Landfill

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704194-23-46	08-31-25
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-25
Virginia	NELAP	460182	06-14-25
Washington	State	C457	04-11-26
West Virginia (DW)	State	9906 C	03-31-26
West Virginia DEP	State	055	07-31-25
Wyoming	State	8TMS-L	01-31-26
Wyoming (UST)	A2LA	0001.01	11-30-26

Method Summary

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
8151A	Herbicides (GC)	SW846	ELLE
6020B	Metals (ICP/MS)	SW846	EET CF
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
3005A	Preparation, Total Metals	SW846	EET CF
5030B	Purge and Trap	SW846	EET CF
8151A	Extraction (Herbicides)	SW846	ELLE

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

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300



Environment Testing
America



310-305613 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>SCS</u>			
City/State:	<u>Des Moines</u>	<u>IA</u>	Project.
Receipt Information			
Date/Time Received:	<u>5/2/25</u>	<u>1640</u>	Received By: <u>XB</u>
Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other.			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		☒ Yes ☐ No	If yes: Cooler ID:
Multiple Coolers?		☒ Yes ☐ No	If yes: Cooler # <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>MW-1, MW-2, MW5R, MW6R, MW10, MW12, LTB1</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>3.4</u>		Corrected Temp (°C): <u>3.4</u>	
• Sample Container Temperature			
Container(s) used:	<u>CONTAINER 1</u>	<u>CONTAINER 2</u>	
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>SCG</u>			
City/State:	<u>Des Moines</u>	<u>IA</u>	Project:
Receipt Information			
Date/Time Received:	<u>5/2/25</u>	<u>1640</u>	Received By: <u>XB</u>
Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler? ☒ Yes ☐ No If yes: Cooler ID _____			
Multiple Coolers? ☒ Yes ☐ No If yes: Cooler # _____ of _____			
Cooler Custody Seals Present? ☐ Yes ☒ No If yes: Cooler custody seals intact? ☐ Yes ☐ No			
Sample Custody Seals Present? ☐ Yes ☒ No If yes: Sample custody seals intact? ☐ Yes ☐ No			
Trip Blank Present? ☒ Yes ☐ No If yes: Which VOA samples are in cooler? ↓			
<u>WTBZ NW-13, MW14, MW15 R, MW-D</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			

Cedar Falls, IA 50613-6907
phone 319.277.2401 fax 319.277.2425

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:		of COCs	
1690 All-State Court, Suite 100		Cell 712-661-9682						Sampler	
West Des Moines, IA 50265		☐ CALENDAR DAYS ☐ WORKING DAYS						For Lab Use Only:	
515-631-6160		Analysis Turnaround Time						Walk-in Client	
		Other: ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day						Lab Sampling	
Project Name: Sac County 1st 2025 GW Sampling Event								Job / SDG No	
Site: Sac County Sanitary Landfill									
P O #									
Sample Identification		Sample Date	Sample Time	Sample Type (C-Comp, G-Grab)	Matrix	# of Cont.	Sample Specific Notes		
MW-1	5-1-25	1402	G	W					
MW-2	5-1-25	1155	G	W					
MW-5R	5-1-25	1232	G	W					
MW-6R	5-1-25	1325	G	W					
MW-10	5-1-25	1437	G	W					
MW-12	5-1-25	1532	G	W					
MW-13	5-1-25	1256	G	W					
MW-14	5-1-25	1412	G	W					
MW-15R	5-1-25	1505	G	W					
GWD-1									
MW-D	5-1-25	1232	G	W					
Trip Blank									
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other									
Possible Hazard Identification:									
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample									
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown									
Special Instructions/QC Requirements & Comments: Metals List Arsenic, Barium, Cadmium Cobalt, Copper, Lead, Nickel Selenium, Thallium, Vanadium, Zinc									
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No		Cooler Temp (°C)		Obs'd		Therm ID No	
Relinquished by: <i>Homer Rath</i>		Company: SCS		Received by:		Company:		Date/Time	
Relinquished by:		Company:		Received by:		Company:		Date/Time	
Relinquished by:		Company:		Received in Laboratory by: <i>[Signature]</i>		Company: <i>[Signature]</i>		Date/Time: <i>5/2/25 1600</i>	

Jim

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-305613-1

Login Number: 305613

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	

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-305613-1

Login Number: 305613

List Number: 2

Creator: McCaskey, Jonathan

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Creation: 05/06/25 02:11 PM

Question	Answer	Comment
The cooler's custody seal is 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 acceptable, where thermal pres is required ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temp acceptable, where thermal pres is required ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace $> 6\text{mm}$ in diameter (none, if from WV)?	N/A	

Quantitation Limit Exceptions Summary

Client: SCS Engineers
Project/Site: Sac County Sanitary Landfill

Job ID: 310-305613-1

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Sean Marczewski
SCS Engineers
1690 All State Court
Suite 100

West Des Moines, Iowa 50265

Generated 11/5/2025 9:07:56 AM Revision 3

JOB DESCRIPTION

Sac County 2nd 2025 GW Sampling Event
Sac County Sanitary Landfill

JOB NUMBER

310-310722-1

Eurofins Cedar Falls

Job Notes

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

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

Authorization



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

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Revision 3

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Case Narrative

Client: SCS Engineers
Project: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1

Job ID: 310-310722-1

Eurofins Cedar Falls

Job Narrative 310-310722-1

REVISION

The report being provided is a revision of the original report sent on 7/18/2025. The report (revision 3) is being revised due to Updated reported analyte list for MW-14.

Report revision history

Revision 2 - 7/31/2025 - Reason - Updated job description on cover page.

Revision 1 - 7/31/2025 - Reason - Updated job description cover page.

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 7/10/2025 4:15 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 0.9°C and 0.9°C.

GC/MS VOA

Method 8260D: The method requirement for no headspace was not met. The following volatile sample was analyzed with headspace in the sample container: Trip Blank 2 (310-310722-11).

Method 8260D: The continuing calibration verification (CCV) associated with batch 310-460229 recovered outside of the control limits for trans-1,3-Dichloropropene (-21.7%D) and Chlorodibromomethane (-21.0%D). The LCS associated with this CCV passed CCV criteria for the affected analytes; therefore, the data have been reported. The associated sample is:(CCV 310-460229/3).

Method 8260D: The continuing calibration verification (CCV) associated with batch 310-460229 recovered outside of the control limits for Bromomethane (-33.5%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 310-460229/4).

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

Herbicides

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

Metals

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

General Chemistry

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

Eurofins Cedar Falls

Sample Summary

Client: SCS Engineers
Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
310-310722-1	MW-1	Water	07/07/25 16:01	07/10/25 16:15	Iowa
310-310722-2	MW-2	Water	07/07/25 16:43	07/10/25 16:15	Iowa
310-310722-3	MW-5R	Water	07/07/25 17:27	07/10/25 16:15	Iowa
310-310722-4	MW-6R	Water	07/07/25 18:51	07/10/25 16:15	Iowa
310-310722-5	MW-10	Water	07/07/25 20:49	07/10/25 16:15	Iowa
310-310722-6	MW-12	Water	07/07/25 20:10	07/10/25 16:15	Iowa
310-310722-7	MW-13	Water	07/07/25 18:11	07/10/25 16:15	Iowa
310-310722-8	MW-14	Water	07/08/25 11:43	07/10/25 16:15	Iowa
310-310722-9	MW-15R	Water	07/08/25 10:30	07/10/25 16:15	Iowa
310-310722-10	Trip Blank 1	Water	07/08/25 00:00	07/10/25 16:15	Iowa
310-310722-11	Trip Blank 2	Water	07/08/25 00:00	07/10/25 16:15	Iowa
310-310722-12	MW-D	Water	07/07/25 20:10	07/10/25 16:15	Iowa

Detection Summary

Client: SCS Engineers
Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

Client Sample ID: MW-1

Lab Sample ID: 310-310722-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.283		0.00200	0.000660	mg/L	1		6020B	Total/NA
Lead	0.000474	J	0.000500	0.000330	mg/L	1		6020B	Total/NA
Selenium	0.00540		0.00500	0.00140	mg/L	1		6020B	Total/NA
Total Suspended Solids	2.13		1.88	1.31	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-2

Lab Sample ID: 310-310722-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.153		0.00200	0.000660	mg/L	1		6020B	Total/NA
Lead	0.000341	J	0.000500	0.000330	mg/L	1		6020B	Total/NA
Selenium	0.00141	J	0.00500	0.00140	mg/L	1		6020B	Total/NA
Total Suspended Solids	1.50	J	1.88	1.31	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-5R

Lab Sample ID: 310-310722-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.000585	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.255		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000927		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.00854		0.00500	0.00230	mg/L	1		6020B	Total/NA
Total Suspended Solids	2.75		1.88	1.31	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-6R

Lab Sample ID: 310-310722-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00500		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0570		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00423		0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.000427	J	0.000500	0.000330	mg/L	1		6020B	Total/NA
Nickel	0.0189		0.00500	0.00230	mg/L	1		6020B	Total/NA
Total Suspended Solids	10.8		3.75	2.63	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-10

Lab Sample ID: 310-310722-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.227		0.00200	0.000660	mg/L	1		6020B	Total/NA
Nickel	0.00658		0.00500	0.00230	mg/L	1		6020B	Total/NA

Client Sample ID: MW-12

Lab Sample ID: 310-310722-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.383		0.00200	0.000660	mg/L	1		6020B	Total/NA
Lead	0.00104		0.000500	0.000330	mg/L	1		6020B	Total/NA
Total Suspended Solids	1.38	J	1.88	1.31	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-13

Lab Sample ID: 310-310722-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00190	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.144		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00312		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0144		0.00500	0.00230	mg/L	1		6020B	Total/NA
Total Suspended Solids	3.87		1.88	1.31	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: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

Client Sample ID: MW-14

Lab Sample ID: 310-310722-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.758	J	1.00	0.210	ug/L	1		8260D	Total/NA
Barium	0.236		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000202		0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.000521		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0192		0.00500	0.00230	mg/L	1		6020B	Total/NA

Client Sample ID: MW-15R

Lab Sample ID: 310-310722-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4.95		1.00	0.210	ug/L	1		8260D	Total/NA
Vinyl chloride	0.680	J	1.00	0.180	ug/L	1		8260D	Total/NA
Arsenic	0.00213		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.315		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00124		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0140		0.00500	0.00230	mg/L	1		6020B	Total/NA
Total Suspended Solids	2.25		1.88	1.31	mg/L	1		I-3765-85	Total/NA

Client Sample ID: Trip Blank 1

Lab Sample ID: 310-310722-10

No Detections.

Client Sample ID: Trip Blank 2

Lab Sample ID: 310-310722-11

No Detections.

Client Sample ID: MW-D

Lab Sample ID: 310-310722-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.413		0.00200	0.000660	mg/L	1		6020B	Total/NA
Lead	0.000478	J	0.000500	0.000330	mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

Client Sample ID: MW-1

Lab Sample ID: 310-310722-1

Date Collected: 07/07/25 16:01

Matrix: Water

Date Received: 07/10/25 16:15

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			07/12/25 06:21	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			07/12/25 06:21	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			07/12/25 06:21	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			07/12/25 06:21	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			07/12/25 06:21	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			07/12/25 06:21	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			07/12/25 06:21	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			07/12/25 06:21	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			07/12/25 06:21	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			07/12/25 06:21	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			07/12/25 06:21	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			07/12/25 06:21	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			07/12/25 06:21	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			07/12/25 06:21	1
2-Hexanone	<10.0		10.0	2.00	ug/L			07/12/25 06:21	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			07/12/25 06:21	1
Acetone	<10.0		10.0	3.10	ug/L			07/12/25 06:21	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			07/12/25 06:21	1
Benzene	<0.500		0.500	0.220	ug/L			07/12/25 06:21	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			07/12/25 06:21	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			07/12/25 06:21	1
Bromoform	<5.00		5.00	0.780	ug/L			07/12/25 06:21	1
Bromomethane	<4.00		4.00	1.10	ug/L			07/12/25 06:21	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			07/12/25 06:21	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			07/12/25 06:21	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			07/12/25 06:21	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			07/12/25 06:21	1
Chloroethane	<4.00		4.00	0.790	ug/L			07/12/25 06:21	1
Chloroform	<3.00		3.00	1.30	ug/L			07/12/25 06:21	1
Chloromethane	<3.00		3.00	0.610	ug/L			07/12/25 06:21	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			07/12/25 06:21	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			07/12/25 06:21	1
Dibromomethane	<1.00		1.00	0.330	ug/L			07/12/25 06:21	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			07/12/25 06:21	1
Iodomethane	<10.0		10.0	7.00	ug/L			07/12/25 06:21	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			07/12/25 06:21	1
Styrene	<1.00		1.00	0.370	ug/L			07/12/25 06:21	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			07/12/25 06:21	1
Toluene	<1.00		1.00	0.430	ug/L			07/12/25 06:21	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			07/12/25 06:21	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			07/12/25 06:21	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			07/12/25 06:21	1
Trichloroethene	<1.00		1.00	0.430	ug/L			07/12/25 06:21	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			07/12/25 06:21	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			07/12/25 06:21	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			07/12/25 06:21	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			07/12/25 06:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	109		76 - 130		07/12/25 06:21	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

Client Sample ID: MW-1

Lab Sample ID: 310-310722-1

Date Collected: 07/07/25 16:01

Matrix: Water

Date Received: 07/10/25 16:15

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		07/12/25 06:21	1
4-Bromofluorobenzene (Surr)	103		80 - 120		07/12/25 06:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		07/15/25 09:15	07/16/25 15:16	1
Barium	0.283		0.00200	0.000660	mg/L		07/15/25 09:15	07/16/25 15:16	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		07/15/25 09:15	07/16/25 15:16	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		07/15/25 09:15	07/16/25 15:16	1
Copper	<0.00500		0.00500	0.00320	mg/L		07/15/25 09:15	07/16/25 15:16	1
Lead	0.000474	J	0.000500	0.000330	mg/L		07/15/25 09:15	07/16/25 15:16	1
Nickel	<0.00500		0.00500	0.00230	mg/L		07/15/25 09:15	07/16/25 15:16	1
Selenium	0.00540		0.00500	0.00140	mg/L		07/15/25 09:15	07/16/25 15:16	1
Thallium	<0.00100		0.00100	0.000570	mg/L		07/15/25 09:15	07/16/25 15:16	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		07/15/25 09:15	07/16/25 15:16	1
Zinc	<0.0200		0.0200	0.0130	mg/L		07/15/25 09:15	07/16/25 15:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	2.13		1.88	1.31	mg/L			07/11/25 14:15	1

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

Client Sample ID: MW-2

Lab Sample ID: 310-310722-2

Date Collected: 07/07/25 16:43

Matrix: Water

Date Received: 07/10/25 16:15

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			07/12/25 06:44	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			07/12/25 06:44	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			07/12/25 06:44	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			07/12/25 06:44	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			07/12/25 06:44	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			07/12/25 06:44	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			07/12/25 06:44	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			07/12/25 06:44	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			07/12/25 06:44	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			07/12/25 06:44	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			07/12/25 06:44	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			07/12/25 06:44	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			07/12/25 06:44	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			07/12/25 06:44	1
2-Hexanone	<10.0		10.0	2.00	ug/L			07/12/25 06:44	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			07/12/25 06:44	1
Acetone	<10.0		10.0	3.10	ug/L			07/12/25 06:44	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			07/12/25 06:44	1
Benzene	<0.500		0.500	0.220	ug/L			07/12/25 06:44	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			07/12/25 06:44	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			07/12/25 06:44	1
Bromoform	<5.00		5.00	0.780	ug/L			07/12/25 06:44	1
Bromomethane	<4.00		4.00	1.10	ug/L			07/12/25 06:44	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			07/12/25 06:44	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			07/12/25 06:44	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			07/12/25 06:44	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			07/12/25 06:44	1
Chloroethane	<4.00		4.00	0.790	ug/L			07/12/25 06:44	1
Chloroform	<3.00		3.00	1.30	ug/L			07/12/25 06:44	1
Chloromethane	<3.00		3.00	0.610	ug/L			07/12/25 06:44	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			07/12/25 06:44	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			07/12/25 06:44	1
Dibromomethane	<1.00		1.00	0.330	ug/L			07/12/25 06:44	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			07/12/25 06:44	1
Iodomethane	<10.0		10.0	7.00	ug/L			07/12/25 06:44	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			07/12/25 06:44	1
Styrene	<1.00		1.00	0.370	ug/L			07/12/25 06:44	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			07/12/25 06:44	1
Toluene	<1.00		1.00	0.430	ug/L			07/12/25 06:44	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			07/12/25 06:44	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			07/12/25 06:44	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			07/12/25 06:44	1
Trichloroethene	<1.00		1.00	0.430	ug/L			07/12/25 06:44	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			07/12/25 06:44	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			07/12/25 06:44	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			07/12/25 06:44	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			07/12/25 06:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	108		76 - 130		07/12/25 06:44	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

Client Sample ID: MW-2

Date Collected: 07/07/25 16:43

Date Received: 07/10/25 16:15

Lab Sample ID: 310-310722-2

Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		80 - 120		07/12/25 06:44	1
4-Bromofluorobenzene (Surr)	104		80 - 120		07/12/25 06:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		07/15/25 09:15	07/16/25 15:18	1
Barium	0.153		0.00200	0.000660	mg/L		07/15/25 09:15	07/16/25 15:18	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		07/15/25 09:15	07/16/25 15:18	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		07/15/25 09:15	07/16/25 15:18	1
Copper	<0.00500		0.00500	0.00320	mg/L		07/15/25 09:15	07/16/25 15:18	1
Lead	0.000341	J	0.000500	0.000330	mg/L		07/15/25 09:15	07/16/25 15:18	1
Nickel	<0.00500		0.00500	0.00230	mg/L		07/15/25 09:15	07/16/25 15:18	1
Selenium	0.00141	J	0.00500	0.00140	mg/L		07/15/25 09:15	07/16/25 15:18	1
Thallium	<0.00100		0.00100	0.000570	mg/L		07/15/25 09:15	07/16/25 15:18	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		07/15/25 09:15	07/16/25 15:18	1
Zinc	<0.0200		0.0200	0.0130	mg/L		07/15/25 09:15	07/16/25 15:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	1.50	J	1.88	1.31	mg/L			07/11/25 14:15	1

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

Client Sample ID: MW-5R

Lab Sample ID: 310-310722-3

Date Collected: 07/07/25 17:27

Matrix: Water

Date Received: 07/10/25 16:15

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			07/12/25 07:07	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			07/12/25 07:07	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			07/12/25 07:07	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			07/12/25 07:07	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			07/12/25 07:07	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			07/12/25 07:07	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			07/12/25 07:07	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			07/12/25 07:07	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			07/12/25 07:07	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			07/12/25 07:07	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			07/12/25 07:07	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			07/12/25 07:07	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			07/12/25 07:07	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			07/12/25 07:07	1
2-Hexanone	<10.0		10.0	2.00	ug/L			07/12/25 07:07	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			07/12/25 07:07	1
Acetone	<10.0		10.0	3.10	ug/L			07/12/25 07:07	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			07/12/25 07:07	1
Benzene	<0.500		0.500	0.220	ug/L			07/12/25 07:07	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			07/12/25 07:07	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			07/12/25 07:07	1
Bromoform	<5.00		5.00	0.780	ug/L			07/12/25 07:07	1
Bromomethane	<4.00		4.00	1.10	ug/L			07/12/25 07:07	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			07/12/25 07:07	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			07/12/25 07:07	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			07/12/25 07:07	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			07/12/25 07:07	1
Chloroethane	<4.00		4.00	0.790	ug/L			07/12/25 07:07	1
Chloroform	<3.00		3.00	1.30	ug/L			07/12/25 07:07	1
Chloromethane	<3.00		3.00	0.610	ug/L			07/12/25 07:07	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			07/12/25 07:07	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			07/12/25 07:07	1
Dibromomethane	<1.00		1.00	0.330	ug/L			07/12/25 07:07	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			07/12/25 07:07	1
Iodomethane	<10.0		10.0	7.00	ug/L			07/12/25 07:07	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			07/12/25 07:07	1
Styrene	<1.00		1.00	0.370	ug/L			07/12/25 07:07	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			07/12/25 07:07	1
Toluene	<1.00		1.00	0.430	ug/L			07/12/25 07:07	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			07/12/25 07:07	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			07/12/25 07:07	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			07/12/25 07:07	1
Trichloroethene	<1.00		1.00	0.430	ug/L			07/12/25 07:07	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			07/12/25 07:07	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			07/12/25 07:07	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			07/12/25 07:07	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			07/12/25 07:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	108		76 - 130		07/12/25 07:07	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

Client Sample ID: MW-5R

Date Collected: 07/07/25 17:27

Date Received: 07/10/25 16:15

Lab Sample ID: 310-310722-3

Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		80 - 120		07/12/25 07:07	1
4-Bromofluorobenzene (Surr)	100		80 - 120		07/12/25 07:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000585	J	0.00200	0.000530	mg/L		07/15/25 09:15	07/16/25 15:21	1
Barium	0.255		0.00200	0.000660	mg/L		07/15/25 09:15	07/16/25 15:21	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		07/15/25 09:15	07/16/25 15:21	1
Cobalt	0.000927		0.000500	0.000170	mg/L		07/15/25 09:15	07/16/25 15:21	1
Copper	<0.00500		0.00500	0.00320	mg/L		07/15/25 09:15	07/16/25 15:21	1
Lead	<0.000500		0.000500	0.000330	mg/L		07/15/25 09:15	07/16/25 15:21	1
Nickel	0.00854		0.00500	0.00230	mg/L		07/15/25 09:15	07/16/25 15:21	1
Selenium	<0.00500		0.00500	0.00140	mg/L		07/15/25 09:15	07/16/25 15:21	1
Thallium	<0.00100		0.00100	0.000570	mg/L		07/15/25 09:15	07/16/25 15:21	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		07/15/25 09:15	07/16/25 15:21	1
Zinc	<0.0200		0.0200	0.0130	mg/L		07/15/25 09:15	07/16/25 15:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	2.75		1.88	1.31	mg/L			07/11/25 14:15	1

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

Client Sample ID: MW-6R

Lab Sample ID: 310-310722-4

Date Collected: 07/07/25 18:51

Matrix: Water

Date Received: 07/10/25 16:15

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			07/12/25 07:29	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			07/12/25 07:29	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			07/12/25 07:29	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			07/12/25 07:29	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			07/12/25 07:29	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			07/12/25 07:29	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			07/12/25 07:29	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			07/12/25 07:29	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			07/12/25 07:29	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			07/12/25 07:29	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			07/12/25 07:29	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			07/12/25 07:29	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			07/12/25 07:29	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			07/12/25 07:29	1
2-Hexanone	<10.0		10.0	2.00	ug/L			07/12/25 07:29	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			07/12/25 07:29	1
Acetone	<10.0		10.0	3.10	ug/L			07/12/25 07:29	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			07/12/25 07:29	1
Benzene	<0.500		0.500	0.220	ug/L			07/12/25 07:29	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			07/12/25 07:29	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			07/12/25 07:29	1
Bromoform	<5.00		5.00	0.780	ug/L			07/12/25 07:29	1
Bromomethane	<4.00		4.00	1.10	ug/L			07/12/25 07:29	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			07/12/25 07:29	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			07/12/25 07:29	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			07/12/25 07:29	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			07/12/25 07:29	1
Chloroethane	<4.00		4.00	0.790	ug/L			07/12/25 07:29	1
Chloroform	<3.00		3.00	1.30	ug/L			07/12/25 07:29	1
Chloromethane	<3.00		3.00	0.610	ug/L			07/12/25 07:29	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			07/12/25 07:29	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			07/12/25 07:29	1
Dibromomethane	<1.00		1.00	0.330	ug/L			07/12/25 07:29	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			07/12/25 07:29	1
Iodomethane	<10.0		10.0	7.00	ug/L			07/12/25 07:29	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			07/12/25 07:29	1
Styrene	<1.00		1.00	0.370	ug/L			07/12/25 07:29	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			07/12/25 07:29	1
Toluene	<1.00		1.00	0.430	ug/L			07/12/25 07:29	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			07/12/25 07:29	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			07/12/25 07:29	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			07/12/25 07:29	1
Trichloroethene	<1.00		1.00	0.430	ug/L			07/12/25 07:29	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			07/12/25 07:29	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			07/12/25 07:29	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			07/12/25 07:29	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			07/12/25 07:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	111		76 - 130		07/12/25 07:29	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

Client Sample ID: MW-6R

Date Collected: 07/07/25 18:51

Date Received: 07/10/25 16:15

Lab Sample ID: 310-310722-4

Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		80 - 120		07/12/25 07:29	1
4-Bromofluorobenzene (Surr)	101		80 - 120		07/12/25 07:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00500		0.00200	0.000530	mg/L		07/15/25 09:15	07/16/25 15:23	1
Barium	0.0570		0.00200	0.000660	mg/L		07/15/25 09:15	07/16/25 15:23	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		07/15/25 09:15	07/16/25 15:23	1
Cobalt	0.00423		0.000500	0.000170	mg/L		07/15/25 09:15	07/16/25 15:23	1
Copper	<0.00500		0.00500	0.00320	mg/L		07/15/25 09:15	07/16/25 15:23	1
Lead	0.000427	J	0.000500	0.000330	mg/L		07/15/25 09:15	07/16/25 15:23	1
Nickel	0.0189		0.00500	0.00230	mg/L		07/15/25 09:15	07/16/25 15:23	1
Selenium	<0.00500		0.00500	0.00140	mg/L		07/15/25 09:15	07/16/25 15:23	1
Thallium	<0.00100		0.00100	0.000570	mg/L		07/15/25 09:15	07/16/25 15:23	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		07/15/25 09:15	07/16/25 15:23	1
Zinc	<0.0200		0.0200	0.0130	mg/L		07/15/25 09:15	07/16/25 15:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	10.8		3.75	2.63	mg/L			07/11/25 14:15	1

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

Client Sample ID: MW-10

Lab Sample ID: 310-310722-5

Date Collected: 07/07/25 20:49

Matrix: Water

Date Received: 07/10/25 16:15

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			07/12/25 07:52	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			07/12/25 07:52	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			07/12/25 07:52	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			07/12/25 07:52	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			07/12/25 07:52	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			07/12/25 07:52	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			07/12/25 07:52	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			07/12/25 07:52	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			07/12/25 07:52	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			07/12/25 07:52	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			07/12/25 07:52	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			07/12/25 07:52	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			07/12/25 07:52	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			07/12/25 07:52	1
2-Hexanone	<10.0		10.0	2.00	ug/L			07/12/25 07:52	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			07/12/25 07:52	1
Acetone	<10.0		10.0	3.10	ug/L			07/12/25 07:52	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			07/12/25 07:52	1
Benzene	<0.500		0.500	0.220	ug/L			07/12/25 07:52	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			07/12/25 07:52	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			07/12/25 07:52	1
Bromoform	<5.00		5.00	0.780	ug/L			07/12/25 07:52	1
Bromomethane	<4.00		4.00	1.10	ug/L			07/12/25 07:52	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			07/12/25 07:52	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			07/12/25 07:52	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			07/12/25 07:52	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			07/12/25 07:52	1
Chloroethane	<4.00		4.00	0.790	ug/L			07/12/25 07:52	1
Chloroform	<3.00		3.00	1.30	ug/L			07/12/25 07:52	1
Chloromethane	<3.00		3.00	0.610	ug/L			07/12/25 07:52	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			07/12/25 07:52	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			07/12/25 07:52	1
Dibromomethane	<1.00		1.00	0.330	ug/L			07/12/25 07:52	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			07/12/25 07:52	1
Iodomethane	<10.0		10.0	7.00	ug/L			07/12/25 07:52	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			07/12/25 07:52	1
Styrene	<1.00		1.00	0.370	ug/L			07/12/25 07:52	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			07/12/25 07:52	1
Toluene	<1.00		1.00	0.430	ug/L			07/12/25 07:52	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			07/12/25 07:52	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			07/12/25 07:52	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			07/12/25 07:52	1
Trichloroethene	<1.00		1.00	0.430	ug/L			07/12/25 07:52	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			07/12/25 07:52	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			07/12/25 07:52	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			07/12/25 07:52	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			07/12/25 07:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	107		76 - 130		07/12/25 07:52	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

Client Sample ID: MW-10

Date Collected: 07/07/25 20:49

Date Received: 07/10/25 16:15

Lab Sample ID: 310-310722-5

Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120		07/12/25 07:52	1
4-Bromofluorobenzene (Surr)	102		80 - 120		07/12/25 07:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		07/15/25 09:15	07/16/25 15:26	1
Barium	0.227		0.00200	0.000660	mg/L		07/15/25 09:15	07/16/25 15:26	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		07/15/25 09:15	07/16/25 15:26	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		07/15/25 09:15	07/16/25 15:26	1
Copper	<0.00500		0.00500	0.00320	mg/L		07/15/25 09:15	07/16/25 15:26	1
Lead	<0.000500		0.000500	0.000330	mg/L		07/15/25 09:15	07/16/25 15:26	1
Nickel	0.00658		0.00500	0.00230	mg/L		07/15/25 09:15	07/16/25 15:26	1
Selenium	<0.00500		0.00500	0.00140	mg/L		07/15/25 09:15	07/16/25 15:26	1
Thallium	<0.00100		0.00100	0.000570	mg/L		07/15/25 09:15	07/16/25 15:26	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		07/15/25 09:15	07/16/25 15:26	1
Zinc	<0.0200		0.0200	0.0130	mg/L		07/15/25 09:15	07/16/25 15:26	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			07/11/25 14:15	1

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

Client Sample ID: MW-12

Lab Sample ID: 310-310722-6

Date Collected: 07/07/25 20:10

Matrix: Water

Date Received: 07/10/25 16:15

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			07/12/25 08:14	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			07/12/25 08:14	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			07/12/25 08:14	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			07/12/25 08:14	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			07/12/25 08:14	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			07/12/25 08:14	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			07/12/25 08:14	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			07/12/25 08:14	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			07/12/25 08:14	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			07/12/25 08:14	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			07/12/25 08:14	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			07/12/25 08:14	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			07/12/25 08:14	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			07/12/25 08:14	1
2-Hexanone	<10.0		10.0	2.00	ug/L			07/12/25 08:14	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			07/12/25 08:14	1
Acetone	<10.0		10.0	3.10	ug/L			07/12/25 08:14	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			07/12/25 08:14	1
Benzene	<0.500		0.500	0.220	ug/L			07/12/25 08:14	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			07/12/25 08:14	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			07/12/25 08:14	1
Bromoform	<5.00		5.00	0.780	ug/L			07/12/25 08:14	1
Bromomethane	<4.00		4.00	1.10	ug/L			07/12/25 08:14	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			07/12/25 08:14	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			07/12/25 08:14	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			07/12/25 08:14	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			07/12/25 08:14	1
Chloroethane	<4.00		4.00	0.790	ug/L			07/12/25 08:14	1
Chloroform	<3.00		3.00	1.30	ug/L			07/12/25 08:14	1
Chloromethane	<3.00		3.00	0.610	ug/L			07/12/25 08:14	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			07/12/25 08:14	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			07/12/25 08:14	1
Dibromomethane	<1.00		1.00	0.330	ug/L			07/12/25 08:14	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			07/12/25 08:14	1
Iodomethane	<10.0		10.0	7.00	ug/L			07/12/25 08:14	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			07/12/25 08:14	1
Styrene	<1.00		1.00	0.370	ug/L			07/12/25 08:14	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			07/12/25 08:14	1
Toluene	<1.00		1.00	0.430	ug/L			07/12/25 08:14	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			07/12/25 08:14	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			07/12/25 08:14	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			07/12/25 08:14	1
Trichloroethene	<1.00		1.00	0.430	ug/L			07/12/25 08:14	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			07/12/25 08:14	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			07/12/25 08:14	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			07/12/25 08:14	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			07/12/25 08:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	107		76 - 130		07/12/25 08:14	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

Client Sample ID: MW-12

Date Collected: 07/07/25 20:10

Date Received: 07/10/25 16:15

Lab Sample ID: 310-310722-6

Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		07/12/25 08:14	1
4-Bromofluorobenzene (Surr)	103		80 - 120		07/12/25 08:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		07/15/25 09:15	07/16/25 15:29	1
Barium	0.383		0.00200	0.000660	mg/L		07/15/25 09:15	07/16/25 15:29	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		07/15/25 09:15	07/16/25 15:29	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		07/15/25 09:15	07/16/25 15:29	1
Copper	<0.00500		0.00500	0.00320	mg/L		07/15/25 09:15	07/16/25 15:29	1
Lead	0.00104		0.000500	0.000330	mg/L		07/15/25 09:15	07/16/25 15:29	1
Nickel	<0.00500		0.00500	0.00230	mg/L		07/15/25 09:15	07/16/25 15:29	1
Selenium	<0.00500		0.00500	0.00140	mg/L		07/15/25 09:15	07/16/25 15:29	1
Thallium	<0.00100		0.00100	0.000570	mg/L		07/15/25 09:15	07/16/25 15:29	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		07/15/25 09:15	07/16/25 15:29	1
Zinc	<0.0200		0.0200	0.0130	mg/L		07/15/25 09:15	07/16/25 15:29	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			07/11/25 14:15	1

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

Client Sample ID: MW-13

Lab Sample ID: 310-310722-7

Date Collected: 07/07/25 18:11

Matrix: Water

Date Received: 07/10/25 16:15

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			07/12/25 08:37	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			07/12/25 08:37	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			07/12/25 08:37	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			07/12/25 08:37	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			07/12/25 08:37	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			07/12/25 08:37	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			07/12/25 08:37	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			07/12/25 08:37	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			07/12/25 08:37	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			07/12/25 08:37	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			07/12/25 08:37	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			07/12/25 08:37	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			07/12/25 08:37	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			07/12/25 08:37	1
2-Hexanone	<10.0		10.0	2.00	ug/L			07/12/25 08:37	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			07/12/25 08:37	1
Acetone	<10.0		10.0	3.10	ug/L			07/12/25 08:37	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			07/12/25 08:37	1
Benzene	<0.500		0.500	0.220	ug/L			07/12/25 08:37	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			07/12/25 08:37	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			07/12/25 08:37	1
Bromoform	<5.00		5.00	0.780	ug/L			07/12/25 08:37	1
Bromomethane	<4.00		4.00	1.10	ug/L			07/12/25 08:37	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			07/12/25 08:37	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			07/12/25 08:37	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			07/12/25 08:37	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			07/12/25 08:37	1
Chloroethane	<4.00		4.00	0.790	ug/L			07/12/25 08:37	1
Chloroform	<3.00		3.00	1.30	ug/L			07/12/25 08:37	1
Chloromethane	<3.00		3.00	0.610	ug/L			07/12/25 08:37	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			07/12/25 08:37	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			07/12/25 08:37	1
Dibromomethane	<1.00		1.00	0.330	ug/L			07/12/25 08:37	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			07/12/25 08:37	1
Iodomethane	<10.0		10.0	7.00	ug/L			07/12/25 08:37	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			07/12/25 08:37	1
Styrene	<1.00		1.00	0.370	ug/L			07/12/25 08:37	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			07/12/25 08:37	1
Toluene	<1.00		1.00	0.430	ug/L			07/12/25 08:37	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			07/12/25 08:37	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			07/12/25 08:37	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			07/12/25 08:37	1
Trichloroethene	<1.00		1.00	0.430	ug/L			07/12/25 08:37	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			07/12/25 08:37	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			07/12/25 08:37	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			07/12/25 08:37	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			07/12/25 08:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	109		76 - 130		07/12/25 08:37	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

Client Sample ID: MW-13

Date Collected: 07/07/25 18:11

Date Received: 07/10/25 16:15

Lab Sample ID: 310-310722-7

Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120		07/12/25 08:37	1
4-Bromofluorobenzene (Surr)	103		80 - 120		07/12/25 08:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00190	J	0.00200	0.000530	mg/L		07/15/25 09:15	07/16/25 15:31	1
Barium	0.144		0.00200	0.000660	mg/L		07/15/25 09:15	07/16/25 15:31	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		07/15/25 09:15	07/16/25 15:31	1
Cobalt	0.00312		0.000500	0.000170	mg/L		07/15/25 09:15	07/16/25 15:31	1
Copper	<0.00500		0.00500	0.00320	mg/L		07/15/25 09:15	07/16/25 15:31	1
Lead	<0.000500		0.000500	0.000330	mg/L		07/15/25 09:15	07/16/25 15:31	1
Nickel	0.0144		0.00500	0.00230	mg/L		07/15/25 09:15	07/16/25 15:31	1
Selenium	<0.00500		0.00500	0.00140	mg/L		07/15/25 09:15	07/16/25 15:31	1
Thallium	<0.00100		0.00100	0.000570	mg/L		07/15/25 09:15	07/16/25 15:31	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		07/15/25 09:15	07/16/25 15:31	1
Zinc	<0.0200		0.0200	0.0130	mg/L		07/15/25 09:15	07/16/25 15:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	3.87		1.88	1.31	mg/L			07/11/25 14:15	1

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

Client Sample ID: MW-14

Lab Sample ID: 310-310722-8

Date Collected: 07/08/25 11:43

Matrix: Water

Date Received: 07/10/25 16:15

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			07/12/25 09:00	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			07/12/25 09:00	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			07/12/25 09:00	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			07/12/25 09:00	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			07/12/25 09:00	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			07/12/25 09:00	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			07/12/25 09:00	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			07/12/25 09:00	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			07/12/25 09:00	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			07/12/25 09:00	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			07/12/25 09:00	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			07/12/25 09:00	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			07/12/25 09:00	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			07/12/25 09:00	1
2-Hexanone	<10.0		10.0	2.00	ug/L			07/12/25 09:00	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			07/12/25 09:00	1
Acetone	<10.0		10.0	3.10	ug/L			07/12/25 09:00	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			07/12/25 09:00	1
Benzene	<0.500		0.500	0.220	ug/L			07/12/25 09:00	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			07/12/25 09:00	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			07/12/25 09:00	1
Bromoform	<5.00		5.00	0.780	ug/L			07/12/25 09:00	1
Bromomethane	<4.00		4.00	1.10	ug/L			07/12/25 09:00	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			07/12/25 09:00	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			07/12/25 09:00	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			07/12/25 09:00	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			07/12/25 09:00	1
Chloroethane	<4.00		4.00	0.790	ug/L			07/12/25 09:00	1
Chloroform	<3.00		3.00	1.30	ug/L			07/12/25 09:00	1
Chloromethane	<3.00		3.00	0.610	ug/L			07/12/25 09:00	1
cis-1,2-Dichloroethene	0.758 J		1.00	0.210	ug/L			07/12/25 09:00	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			07/12/25 09:00	1
Dibromomethane	<1.00		1.00	0.330	ug/L			07/12/25 09:00	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			07/12/25 09:00	1
Iodomethane	<10.0		10.0	7.00	ug/L			07/12/25 09:00	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			07/12/25 09:00	1
Styrene	<1.00		1.00	0.370	ug/L			07/12/25 09:00	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			07/12/25 09:00	1
Toluene	<1.00		1.00	0.430	ug/L			07/12/25 09:00	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			07/12/25 09:00	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			07/12/25 09:00	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			07/12/25 09:00	1
Trichloroethene	<1.00		1.00	0.430	ug/L			07/12/25 09:00	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			07/12/25 09:00	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			07/12/25 09:00	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			07/12/25 09:00	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			07/12/25 09:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	110		76 - 130		07/12/25 09:00	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

Client Sample ID: MW-14

Date Collected: 07/08/25 11:43

Date Received: 07/10/25 16:15

Lab Sample ID: 310-310722-8

Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		80 - 120		07/12/25 09:00	1
4-Bromofluorobenzene (Surr)	104		80 - 120		07/12/25 09:00	1

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	<0.0497		0.0497	0.0219	ug/L		07/14/25 15:27	07/15/25 10:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCAA	47		34 - 142	07/14/25 15:27	07/15/25 10:44	1
DCAA	46		34 - 142	07/14/25 15:27	07/15/25 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		07/15/25 09:15	07/16/25 15:34	1
Barium	0.236		0.00200	0.000660	mg/L		07/15/25 09:15	07/16/25 15:34	1
Cadmium	0.000202		0.000200	0.000100	mg/L		07/15/25 09:15	07/16/25 15:34	1
Cobalt	0.000521		0.000500	0.000170	mg/L		07/15/25 09:15	07/16/25 15:34	1
Copper	<0.00500		0.00500	0.00320	mg/L		07/15/25 09:15	07/16/25 15:34	1
Lead	<0.000500		0.000500	0.000330	mg/L		07/15/25 09:15	07/16/25 15:34	1
Nickel	0.0192		0.00500	0.00230	mg/L		07/15/25 09:15	07/16/25 15:34	1
Selenium	<0.00500		0.00500	0.00140	mg/L		07/15/25 09:15	07/16/25 15:34	1
Thallium	<0.00100		0.00100	0.000570	mg/L		07/15/25 09:15	07/16/25 15:34	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		07/15/25 09:15	07/16/25 15:34	1
Zinc	<0.0200		0.0200	0.0130	mg/L		07/15/25 09:15	07/16/25 15:34	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			07/14/25 15:49	1

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

Client Sample ID: MW-15R

Lab Sample ID: 310-310722-9

Date Collected: 07/08/25 10:30

Matrix: Water

Date Received: 07/10/25 16:15

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			07/12/25 09:22	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			07/12/25 09:22	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			07/12/25 09:22	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			07/12/25 09:22	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			07/12/25 09:22	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			07/12/25 09:22	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			07/12/25 09:22	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			07/12/25 09:22	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			07/12/25 09:22	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			07/12/25 09:22	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			07/12/25 09:22	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			07/12/25 09:22	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			07/12/25 09:22	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			07/12/25 09:22	1
2-Hexanone	<10.0		10.0	2.00	ug/L			07/12/25 09:22	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			07/12/25 09:22	1
Acetone	<10.0		10.0	3.10	ug/L			07/12/25 09:22	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			07/12/25 09:22	1
Benzene	<0.500		0.500	0.220	ug/L			07/12/25 09:22	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			07/12/25 09:22	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			07/12/25 09:22	1
Bromoform	<5.00		5.00	0.780	ug/L			07/12/25 09:22	1
Bromomethane	<4.00		4.00	1.10	ug/L			07/12/25 09:22	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			07/12/25 09:22	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			07/12/25 09:22	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			07/12/25 09:22	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			07/12/25 09:22	1
Chloroethane	<4.00		4.00	0.790	ug/L			07/12/25 09:22	1
Chloroform	<3.00		3.00	1.30	ug/L			07/12/25 09:22	1
Chloromethane	<3.00		3.00	0.610	ug/L			07/12/25 09:22	1
cis-1,2-Dichloroethene	4.95		1.00	0.210	ug/L			07/12/25 09:22	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			07/12/25 09:22	1
Dibromomethane	<1.00		1.00	0.330	ug/L			07/12/25 09:22	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			07/12/25 09:22	1
Iodomethane	<10.0		10.0	7.00	ug/L			07/12/25 09:22	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			07/12/25 09:22	1
Styrene	<1.00		1.00	0.370	ug/L			07/12/25 09:22	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			07/12/25 09:22	1
Toluene	<1.00		1.00	0.430	ug/L			07/12/25 09:22	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			07/12/25 09:22	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			07/12/25 09:22	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			07/12/25 09:22	1
Trichloroethene	<1.00		1.00	0.430	ug/L			07/12/25 09:22	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			07/12/25 09:22	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			07/12/25 09:22	1
Vinyl chloride	0.680 J		1.00	0.180	ug/L			07/12/25 09:22	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			07/12/25 09:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	107		76 - 130		07/12/25 09:22	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

Client Sample ID: MW-15R

Lab Sample ID: 310-310722-9

Date Collected: 07/08/25 10:30

Matrix: Water

Date Received: 07/10/25 16:15

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		07/12/25 09:22	1
4-Bromofluorobenzene (Surr)	103		80 - 120		07/12/25 09:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00213		0.00200	0.000530	mg/L		07/16/25 07:40	07/17/25 21:27	1
Barium	0.315		0.00200	0.000660	mg/L		07/16/25 07:40	07/17/25 21:27	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		07/16/25 07:40	07/17/25 21:27	1
Cobalt	0.00124		0.000500	0.000170	mg/L		07/16/25 07:40	07/17/25 21:27	1
Copper	<0.00500		0.00500	0.00320	mg/L		07/16/25 07:40	07/17/25 21:27	1
Lead	<0.000500		0.000500	0.000330	mg/L		07/16/25 07:40	07/17/25 21:27	1
Nickel	0.0140		0.00500	0.00230	mg/L		07/16/25 07:40	07/17/25 21:27	1
Selenium	<0.00500		0.00500	0.00140	mg/L		07/16/25 07:40	07/17/25 21:27	1
Thallium	<0.00100		0.00100	0.000570	mg/L		07/16/25 07:40	07/17/25 21:27	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		07/16/25 07:40	07/17/25 21:27	1
Zinc	<0.0200		0.0200	0.0130	mg/L		07/16/25 07:40	07/17/25 21:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	2.25		1.88	1.31	mg/L			07/14/25 15:09	1

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

Client Sample ID: Trip Blank 1

Lab Sample ID: 310-310722-10

Date Collected: 07/08/25 00:00

Matrix: Water

Date Received: 07/10/25 16:15

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			07/12/25 04:06	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			07/12/25 04:06	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			07/12/25 04:06	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			07/12/25 04:06	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			07/12/25 04:06	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			07/12/25 04:06	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			07/12/25 04:06	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			07/12/25 04:06	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			07/12/25 04:06	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			07/12/25 04:06	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			07/12/25 04:06	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			07/12/25 04:06	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			07/12/25 04:06	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			07/12/25 04:06	1
2-Hexanone	<10.0		10.0	2.00	ug/L			07/12/25 04:06	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			07/12/25 04:06	1
Acetone	<10.0		10.0	3.10	ug/L			07/12/25 04:06	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			07/12/25 04:06	1
Benzene	<0.500		0.500	0.220	ug/L			07/12/25 04:06	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			07/12/25 04:06	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			07/12/25 04:06	1
Bromoform	<5.00		5.00	0.780	ug/L			07/12/25 04:06	1
Bromomethane	<4.00		4.00	1.10	ug/L			07/12/25 04:06	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			07/12/25 04:06	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			07/12/25 04:06	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			07/12/25 04:06	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			07/12/25 04:06	1
Chloroethane	<4.00		4.00	0.790	ug/L			07/12/25 04:06	1
Chloroform	<3.00		3.00	1.30	ug/L			07/12/25 04:06	1
Chloromethane	<3.00		3.00	0.610	ug/L			07/12/25 04:06	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			07/12/25 04:06	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			07/12/25 04:06	1
Dibromomethane	<1.00		1.00	0.330	ug/L			07/12/25 04:06	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			07/12/25 04:06	1
Iodomethane	<10.0		10.0	7.00	ug/L			07/12/25 04:06	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			07/12/25 04:06	1
Styrene	<1.00		1.00	0.370	ug/L			07/12/25 04:06	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			07/12/25 04:06	1
Toluene	<1.00		1.00	0.430	ug/L			07/12/25 04:06	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			07/12/25 04:06	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			07/12/25 04:06	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			07/12/25 04:06	1
Trichloroethene	<1.00		1.00	0.430	ug/L			07/12/25 04:06	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			07/12/25 04:06	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			07/12/25 04:06	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			07/12/25 04:06	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			07/12/25 04:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	110		76 - 130		07/12/25 04:06	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

Client Sample ID: Trip Blank 1
Date Collected: 07/08/25 00:00
Date Received: 07/10/25 16:15

Lab Sample ID: 310-310722-10
Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		80 - 120		07/12/25 04:06	1
4-Bromofluorobenzene (Surr)	103		80 - 120		07/12/25 04:06	1

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

Client Sample ID: Trip Blank 2

Lab Sample ID: 310-310722-11

Date Collected: 07/08/25 00:00

Matrix: Water

Date Received: 07/10/25 16:15

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			07/12/25 04:29	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			07/12/25 04:29	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			07/12/25 04:29	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			07/12/25 04:29	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			07/12/25 04:29	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			07/12/25 04:29	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			07/12/25 04:29	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			07/12/25 04:29	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			07/12/25 04:29	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			07/12/25 04:29	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			07/12/25 04:29	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			07/12/25 04:29	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			07/12/25 04:29	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			07/12/25 04:29	1
2-Hexanone	<10.0		10.0	2.00	ug/L			07/12/25 04:29	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			07/12/25 04:29	1
Acetone	<10.0		10.0	3.10	ug/L			07/12/25 04:29	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			07/12/25 04:29	1
Benzene	<0.500		0.500	0.220	ug/L			07/12/25 04:29	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			07/12/25 04:29	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			07/12/25 04:29	1
Bromoform	<5.00		5.00	0.780	ug/L			07/12/25 04:29	1
Bromomethane	<4.00		4.00	1.10	ug/L			07/12/25 04:29	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			07/12/25 04:29	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			07/12/25 04:29	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			07/12/25 04:29	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			07/12/25 04:29	1
Chloroethane	<4.00		4.00	0.790	ug/L			07/12/25 04:29	1
Chloroform	<3.00		3.00	1.30	ug/L			07/12/25 04:29	1
Chloromethane	<3.00		3.00	0.610	ug/L			07/12/25 04:29	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			07/12/25 04:29	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			07/12/25 04:29	1
Dibromomethane	<1.00		1.00	0.330	ug/L			07/12/25 04:29	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			07/12/25 04:29	1
Iodomethane	<10.0		10.0	7.00	ug/L			07/12/25 04:29	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			07/12/25 04:29	1
Styrene	<1.00		1.00	0.370	ug/L			07/12/25 04:29	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			07/12/25 04:29	1
Toluene	<1.00		1.00	0.430	ug/L			07/12/25 04:29	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			07/12/25 04:29	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			07/12/25 04:29	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			07/12/25 04:29	1
Trichloroethene	<1.00		1.00	0.430	ug/L			07/12/25 04:29	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			07/12/25 04:29	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			07/12/25 04:29	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			07/12/25 04:29	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			07/12/25 04:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	110		76 - 130		07/12/25 04:29	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

Client Sample ID: Trip Blank 2
Date Collected: 07/08/25 00:00
Date Received: 07/10/25 16:15

Lab Sample ID: 310-310722-11
Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		07/12/25 04:29	1
4-Bromofluorobenzene (Surr)	104		80 - 120		07/12/25 04:29	1

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

Client Sample ID: MW-D

Lab Sample ID: 310-310722-12

Date Collected: 07/07/25 20:10

Matrix: Water

Date Received: 07/10/25 16:15

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			07/12/25 09:45	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			07/12/25 09:45	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			07/12/25 09:45	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			07/12/25 09:45	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			07/12/25 09:45	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			07/12/25 09:45	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			07/12/25 09:45	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			07/12/25 09:45	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			07/12/25 09:45	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			07/12/25 09:45	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			07/12/25 09:45	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			07/12/25 09:45	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			07/12/25 09:45	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			07/12/25 09:45	1
2-Hexanone	<10.0		10.0	2.00	ug/L			07/12/25 09:45	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			07/12/25 09:45	1
Acetone	<10.0		10.0	3.10	ug/L			07/12/25 09:45	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			07/12/25 09:45	1
Benzene	<0.500		0.500	0.220	ug/L			07/12/25 09:45	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			07/12/25 09:45	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			07/12/25 09:45	1
Bromoform	<5.00		5.00	0.780	ug/L			07/12/25 09:45	1
Bromomethane	<4.00		4.00	1.10	ug/L			07/12/25 09:45	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			07/12/25 09:45	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			07/12/25 09:45	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			07/12/25 09:45	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			07/12/25 09:45	1
Chloroethane	<4.00		4.00	0.790	ug/L			07/12/25 09:45	1
Chloroform	<3.00		3.00	1.30	ug/L			07/12/25 09:45	1
Chloromethane	<3.00		3.00	0.610	ug/L			07/12/25 09:45	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			07/12/25 09:45	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			07/12/25 09:45	1
Dibromomethane	<1.00		1.00	0.330	ug/L			07/12/25 09:45	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			07/12/25 09:45	1
Iodomethane	<10.0		10.0	7.00	ug/L			07/12/25 09:45	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			07/12/25 09:45	1
Styrene	<1.00		1.00	0.370	ug/L			07/12/25 09:45	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			07/12/25 09:45	1
Toluene	<1.00		1.00	0.430	ug/L			07/12/25 09:45	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			07/12/25 09:45	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			07/12/25 09:45	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			07/12/25 09:45	1
Trichloroethene	<1.00		1.00	0.430	ug/L			07/12/25 09:45	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			07/12/25 09:45	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			07/12/25 09:45	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			07/12/25 09:45	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			07/12/25 09:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	108		76 - 130		07/12/25 09:45	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

Client Sample ID: MW-D

Date Collected: 07/07/25 20:10

Date Received: 07/10/25 16:15

Lab Sample ID: 310-310722-12

Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		07/12/25 09:45	1
4-Bromofluorobenzene (Surr)	100		80 - 120		07/12/25 09:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		07/16/25 07:40	07/17/25 21:30	1
Barium	0.413		0.00200	0.000660	mg/L		07/16/25 07:40	07/17/25 21:30	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		07/16/25 07:40	07/17/25 21:30	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		07/16/25 07:40	07/17/25 21:30	1
Copper	<0.00500		0.00500	0.00320	mg/L		07/16/25 07:40	07/17/25 21:30	1
Lead	0.000478	J	0.000500	0.000330	mg/L		07/16/25 07:40	07/17/25 21:30	1
Nickel	<0.00500		0.00500	0.00230	mg/L		07/16/25 07:40	07/17/25 21:30	1
Selenium	<0.00500		0.00500	0.00140	mg/L		07/16/25 07:40	07/17/25 21:30	1
Thallium	<0.00100		0.00100	0.000570	mg/L		07/16/25 07:40	07/17/25 21:30	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		07/16/25 07:40	07/17/25 21:30	1
Zinc	<0.0200		0.0200	0.0130	mg/L		07/16/25 07:40	07/17/25 21:30	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			07/14/25 15:09	1

Definitions/Glossary

Client: SCS Engineers
Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

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
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: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

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)
310-310722-1	MW-1	109	98	103
310-310722-2	MW-2	108	97	104
310-310722-3	MW-5R	108	97	100
310-310722-4	MW-6R	111	95	101
310-310722-5	MW-10	107	96	102
310-310722-6	MW-12	107	98	103
310-310722-7	MW-13	109	96	103
310-310722-8	MW-14	110	97	104
310-310722-9	MW-15R	107	98	103
310-310722-10	Trip Blank 1	110	97	103
310-310722-11	Trip Blank 2	110	98	104
310-310722-12	MW-D	108	99	100
LCS 310-460229/7	Lab Control Sample	100	102	101
LCS 310-460229/8	Lab Control Sample	109	96	103
MB 310-460229/6	Method Blank	107	97	105

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

Method: 8151A - Herbicides (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCPAA1 (34-142)	DCPAA2 (34-142)
310-310722-8	MW-14	47	46
LCS 410-671010/2-A	Lab Control Sample	84	75
LCS 410-671010/2-A - DL	Lab Control Sample	116	110
MB 410-671010/1-A	Method Blank	72	64

Surrogate Legend

DCPAA = DCAA

QC Sample Results

Client: SCS Engineers
Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

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

Lab Sample ID: MB 310-460229/6

Matrix: Water

Analysis Batch: 460229

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			07/12/25 02:36	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			07/12/25 02:36	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			07/12/25 02:36	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			07/12/25 02:36	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			07/12/25 02:36	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			07/12/25 02:36	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			07/12/25 02:36	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			07/12/25 02:36	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			07/12/25 02:36	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			07/12/25 02:36	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			07/12/25 02:36	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			07/12/25 02:36	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			07/12/25 02:36	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			07/12/25 02:36	1
2-Hexanone	<10.0		10.0	2.00	ug/L			07/12/25 02:36	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			07/12/25 02:36	1
Acetone	<10.0		10.0	3.10	ug/L			07/12/25 02:36	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			07/12/25 02:36	1
Benzene	<0.500		0.500	0.220	ug/L			07/12/25 02:36	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			07/12/25 02:36	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			07/12/25 02:36	1
Bromoform	<5.00		5.00	0.780	ug/L			07/12/25 02:36	1
Bromomethane	<4.00		4.00	1.10	ug/L			07/12/25 02:36	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			07/12/25 02:36	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			07/12/25 02:36	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			07/12/25 02:36	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			07/12/25 02:36	1
Chloroethane	<4.00		4.00	0.790	ug/L			07/12/25 02:36	1
Chloroform	<3.00		3.00	1.30	ug/L			07/12/25 02:36	1
Chloromethane	<3.00		3.00	0.610	ug/L			07/12/25 02:36	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			07/12/25 02:36	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			07/12/25 02:36	1
Dibromomethane	<1.00		1.00	0.330	ug/L			07/12/25 02:36	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			07/12/25 02:36	1
Iodomethane	<10.0		10.0	7.00	ug/L			07/12/25 02:36	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			07/12/25 02:36	1
Styrene	<1.00		1.00	0.370	ug/L			07/12/25 02:36	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			07/12/25 02:36	1
Toluene	<1.00		1.00	0.430	ug/L			07/12/25 02:36	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			07/12/25 02:36	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			07/12/25 02:36	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			07/12/25 02:36	1
Trichloroethene	<1.00		1.00	0.430	ug/L			07/12/25 02:36	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			07/12/25 02:36	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			07/12/25 02:36	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			07/12/25 02:36	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			07/12/25 02:36	1

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QC Sample Results

Client: SCS Engineers
Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

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

Lab Sample ID: MB 310-460229/6
Matrix: Water
Analysis Batch: 460229

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	107		76 - 130		07/12/25 02:36	1
Toluene-d8 (Surr)	97		80 - 120		07/12/25 02:36	1
4-Bromofluorobenzene (Surr)	105		80 - 120		07/12/25 02:36	1

Lab Sample ID: LCS 310-460229/7
Matrix: Water
Analysis Batch: 460229

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	18.84		ug/L		94	70 - 121
1,1,1-Trichloroethane	20.0	20.86		ug/L		104	69 - 130
1,1,2,2-Tetrachloroethane	20.0	18.20		ug/L		91	70 - 122
1,1,2-Trichloroethane	20.0	16.72		ug/L		84	75 - 121
1,1-Dichloroethane	20.0	21.44		ug/L		107	69 - 127
1,1-Dichloroethene	20.0	21.93		ug/L		110	64 - 134
1,2,3-Trichloropropane	20.0	18.47		ug/L		92	70 - 122
1,2-Dibromo-3-Chloropropane	20.0	21.01		ug/L		105	62 - 132
1,2-Dibromoethane (EDB)	20.0	17.78		ug/L		89	74 - 122
1,2-Dichlorobenzene	20.0	19.74		ug/L		99	74 - 120
1,2-Dichloroethane	20.0	19.98		ug/L		100	68 - 125
1,2-Dichloropropane	20.0	19.60		ug/L		98	72 - 128
1,4-Dichlorobenzene	20.0	19.47		ug/L		97	72 - 120
2-Butanone (MEK)	40.0	36.81		ug/L		92	60 - 134
2-Hexanone	40.0	38.22		ug/L		96	62 - 139
4-Methyl-2-pentanone (MIBK)	40.0	34.75		ug/L		87	62 - 136
Acetone	40.0	41.99		ug/L		105	59 - 136
Acrylonitrile	200	194.3		ug/L		97	50 - 150
Benzene	20.0	19.50		ug/L		97	71 - 125
Bromochloromethane	20.0	21.36		ug/L		107	69 - 131
Bromodichloromethane	20.0	18.15		ug/L		91	70 - 122
Bromoform	20.0	16.99		ug/L		85	62 - 122
Carbon disulfide	20.0	22.01		ug/L		110	58 - 137
Carbon tetrachloride	20.0	21.81		ug/L		109	63 - 136
Chlorobenzene	20.0	18.47		ug/L		92	74 - 120
Chlorodibromomethane	20.0	17.16		ug/L		86	69 - 121
Chloroform	20.0	20.30		ug/L		102	72 - 122
cis-1,2-Dichloroethene	20.0	19.95		ug/L		100	72 - 123
cis-1,3-Dichloropropene	20.0	17.07		ug/L		85	72 - 123
Dibromomethane	20.0	20.26		ug/L		101	72 - 122
Ethylbenzene	20.0	19.45		ug/L		97	75 - 120
Iodomethane	20.0	12.47		ug/L		62	18 - 150
Methylene Chloride	20.0	20.73		ug/L		104	72 - 128
Styrene	20.0	19.53		ug/L		98	74 - 122
Tetrachloroethene	20.0	19.36		ug/L		97	70 - 128
Toluene	20.0	18.71		ug/L		94	74 - 120
trans-1,2-Dichloroethene	20.0	20.96		ug/L		105	67 - 127
trans-1,3-Dichloropropene	20.0	16.75		ug/L		84	67 - 123
trans-1,4-Dichloro-2-butene	20.0	15.61		ug/L		78	50 - 150

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QC Sample Results

Client: SCS Engineers
Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

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

Lab Sample ID: LCS 310-460229/7

Matrix: Water

Analysis Batch: 460229

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	18.59		ug/L		93	70 - 128
Vinyl acetate	40.0	36.82		ug/L		92	50 - 150
Xylenes, Total	40.0	38.74		ug/L		97	74 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	100		76 - 130
Toluene-d8 (Surr)	102		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120

Lab Sample ID: LCS 310-460229/8

Matrix: Water

Analysis Batch: 460229

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	13.31		ug/L		67	33 - 138
Chloroethane	20.0	18.26		ug/L		91	59 - 139
Chloromethane	20.0	17.42		ug/L		87	52 - 146
Trichlorofluoromethane	20.0	19.84		ug/L		99	55 - 150
Vinyl chloride	20.0	17.88		ug/L		89	60 - 142

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	109		76 - 130
Toluene-d8 (Surr)	96		80 - 120
4-Bromofluorobenzene (Surr)	103		80 - 120

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 410-671010/1-A

Matrix: Water

Analysis Batch: 671204

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 671010

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	<0.0500		0.0500	0.0220	ug/L		07/14/25 15:27	07/15/25 07:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCAA	72		34 - 142	07/14/25 15:27	07/15/25 07:54	1
DCAA	64		34 - 142	07/14/25 15:27	07/15/25 07:54	1

Lab Sample ID: LCS 410-671010/2-A

Matrix: Water

Analysis Batch: 671204

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 671010

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-T	0.400	0.3454		ug/L		86	57 - 171

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCAA	84		34 - 142
DCAA	75		34 - 142

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QC Sample Results

Client: SCS Engineers
Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

Method: 8151A - Herbicides (GC) - DL

Lab Sample ID: LCS 410-671010/2-A
Matrix: Water
Analysis Batch: 671204

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671010

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silvex (2,4,5-TP) - DL	4.01	3.649		ug/L		91	62 - 170
Surrogate	%Recovery	LCS Qualifier	Limits				
DCAA - DL	116		34 - 142				
DCAA - DL	110		34 - 142				

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-460425/1-A
Matrix: Water
Analysis Batch: 460764

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 460425

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		07/15/25 09:15	07/16/25 14:22	1
Barium	<0.00200		0.00200	0.000660	mg/L		07/15/25 09:15	07/16/25 14:22	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		07/15/25 09:15	07/16/25 14:22	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		07/15/25 09:15	07/16/25 14:22	1
Copper	<0.00500		0.00500	0.00320	mg/L		07/15/25 09:15	07/16/25 14:22	1
Lead	<0.000500		0.000500	0.000330	mg/L		07/15/25 09:15	07/16/25 14:22	1
Nickel	<0.00500		0.00500	0.00230	mg/L		07/15/25 09:15	07/16/25 14:22	1
Selenium	<0.00500		0.00500	0.00140	mg/L		07/15/25 09:15	07/16/25 14:22	1
Thallium	<0.00100		0.00100	0.000570	mg/L		07/15/25 09:15	07/16/25 14:22	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		07/15/25 09:15	07/16/25 14:22	1
Zinc	<0.0200		0.0200	0.0130	mg/L		07/15/25 09:15	07/16/25 14:22	1

Lab Sample ID: LCS 310-460425/2-A
Matrix: Water
Analysis Batch: 460764

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 460425

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.2038		mg/L		102	80 - 120
Barium	0.100	0.1014		mg/L		101	80 - 120
Cadmium	0.100	0.1003		mg/L		100	80 - 120
Cobalt	0.100	0.1004		mg/L		100	80 - 120
Copper	0.200	0.2042		mg/L		102	80 - 120
Lead	0.200	0.2032		mg/L		102	80 - 120
Nickel	0.200	0.2019		mg/L		101	80 - 120
Selenium	0.400	0.3912		mg/L		98	80 - 120
Thallium	0.100	0.09142		mg/L		91	80 - 120
Vanadium	0.100	0.1009		mg/L		101	80 - 120
Zinc	0.200	0.1889		mg/L		94	80 - 120

Lab Sample ID: MB 310-460582/1-A
Matrix: Water
Analysis Batch: 460920

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 460582

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		07/16/25 07:40	07/17/25 20:21	1
Barium	<0.00200		0.00200	0.000660	mg/L		07/16/25 07:40	07/17/25 20:21	1

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QC Sample Results

Client: SCS Engineers
Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

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

Lab Sample ID: MB 310-460582/1-A
Matrix: Water
Analysis Batch: 460920

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 460582

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.000200		0.000200	0.000100	mg/L		07/16/25 07:40	07/17/25 20:21	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		07/16/25 07:40	07/17/25 20:21	1
Copper	<0.00500		0.00500	0.00320	mg/L		07/16/25 07:40	07/17/25 20:21	1
Lead	<0.000500		0.000500	0.000330	mg/L		07/16/25 07:40	07/17/25 20:21	1
Nickel	<0.00500		0.00500	0.00230	mg/L		07/16/25 07:40	07/17/25 20:21	1
Selenium	<0.00500		0.00500	0.00140	mg/L		07/16/25 07:40	07/17/25 20:21	1
Thallium	<0.00100		0.00100	0.000570	mg/L		07/16/25 07:40	07/17/25 20:21	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		07/16/25 07:40	07/17/25 20:21	1
Zinc	<0.0200		0.0200	0.0130	mg/L		07/16/25 07:40	07/17/25 20:21	1

Lab Sample ID: LCS 310-460582/2-A
Matrix: Water
Analysis Batch: 460920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 460582

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.1897		mg/L		95	80 - 120
Barium	0.100	0.09808		mg/L		98	80 - 120
Cadmium	0.100	0.09537		mg/L		95	80 - 120
Cobalt	0.100	0.09475		mg/L		95	80 - 120
Copper	0.200	0.1991		mg/L		100	80 - 120
Lead	0.200	0.1925		mg/L		96	80 - 120
Nickel	0.200	0.1954		mg/L		98	80 - 120
Selenium	0.400	0.3462		mg/L		87	80 - 120
Thallium	0.100	0.08781		mg/L		88	80 - 120
Vanadium	0.100	0.09445		mg/L		94	80 - 120
Zinc	0.200	0.1937		mg/L		97	80 - 120

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

Lab Sample ID: MB 310-460271/1
Matrix: Water
Analysis Batch: 460271

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			07/11/25 14:15	1

Lab Sample ID: LCS 310-460271/2
Matrix: Water
Analysis Batch: 460271

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	101.0		mg/L		101	82 - 117

Lab Sample ID: MB 310-460417/1
Matrix: Water
Analysis Batch: 460417

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			07/14/25 15:09	1

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

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

Lab Sample ID: LCS 310-460417/2
Matrix: Water
Analysis Batch: 460417

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	101.0		mg/L		101	82 - 117

Lab Sample ID: MB 310-460421/1
Matrix: Water
Analysis Batch: 460421

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			07/14/25 15:49	1

Lab Sample ID: LCS 310-460421/2
Matrix: Water
Analysis Batch: 460421

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	103.0		mg/L		103	82 - 117

QC Association Summary

Client: SCS Engineers
Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

GC/MS VOA

Analysis Batch: 460229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-310722-1	MW-1	Total/NA	Water	8260D	
310-310722-2	MW-2	Total/NA	Water	8260D	
310-310722-3	MW-5R	Total/NA	Water	8260D	
310-310722-4	MW-6R	Total/NA	Water	8260D	
310-310722-5	MW-10	Total/NA	Water	8260D	
310-310722-6	MW-12	Total/NA	Water	8260D	
310-310722-7	MW-13	Total/NA	Water	8260D	
310-310722-8	MW-14	Total/NA	Water	8260D	
310-310722-9	MW-15R	Total/NA	Water	8260D	
310-310722-10	Trip Blank 1	Total/NA	Water	8260D	
310-310722-11	Trip Blank 2	Total/NA	Water	8260D	
310-310722-12	MW-D	Total/NA	Water	8260D	
MB 310-460229/6	Method Blank	Total/NA	Water	8260D	
LCS 310-460229/7	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-460229/8	Lab Control Sample	Total/NA	Water	8260D	

GC Semi VOA

Prep Batch: 671010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-310722-8	MW-14	Total/NA	Water	8151A	
MB 410-671010/1-A	Method Blank	Total/NA	Water	8151A	
LCS 410-671010/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCS 410-671010/2-A - DL	Lab Control Sample	Total/NA	Water	8151A	

Analysis Batch: 671204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-310722-8	MW-14	Total/NA	Water	8151A	671010
MB 410-671010/1-A	Method Blank	Total/NA	Water	8151A	671010
LCS 410-671010/2-A	Lab Control Sample	Total/NA	Water	8151A	671010
LCS 410-671010/2-A - DL	Lab Control Sample	Total/NA	Water	8151A	671010

Metals

Prep Batch: 460425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-310722-1	MW-1	Total/NA	Water	3005A	
310-310722-2	MW-2	Total/NA	Water	3005A	
310-310722-3	MW-5R	Total/NA	Water	3005A	
310-310722-4	MW-6R	Total/NA	Water	3005A	
310-310722-5	MW-10	Total/NA	Water	3005A	
310-310722-6	MW-12	Total/NA	Water	3005A	
310-310722-7	MW-13	Total/NA	Water	3005A	
310-310722-8	MW-14	Total/NA	Water	3005A	
MB 310-460425/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-460425/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 460582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-310722-9	MW-15R	Total/NA	Water	3005A	
310-310722-12	MW-D	Total/NA	Water	3005A	
MB 310-460582/1-A	Method Blank	Total/NA	Water	3005A	

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

Metals (Continued)

Prep Batch: 460582 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 310-460582/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 460764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-310722-1	MW-1	Total/NA	Water	6020B	460425
310-310722-2	MW-2	Total/NA	Water	6020B	460425
310-310722-3	MW-5R	Total/NA	Water	6020B	460425
310-310722-4	MW-6R	Total/NA	Water	6020B	460425
310-310722-5	MW-10	Total/NA	Water	6020B	460425
310-310722-6	MW-12	Total/NA	Water	6020B	460425
310-310722-7	MW-13	Total/NA	Water	6020B	460425
310-310722-8	MW-14	Total/NA	Water	6020B	460425
MB 310-460425/1-A	Method Blank	Total/NA	Water	6020B	460425
LCS 310-460425/2-A	Lab Control Sample	Total/NA	Water	6020B	460425

Analysis Batch: 460920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-310722-9	MW-15R	Total/NA	Water	6020B	460582
310-310722-12	MW-D	Total/NA	Water	6020B	460582
MB 310-460582/1-A	Method Blank	Total/NA	Water	6020B	460582
LCS 310-460582/2-A	Lab Control Sample	Total/NA	Water	6020B	460582

General Chemistry

Analysis Batch: 460271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-310722-1	MW-1	Total/NA	Water	I-3765-85	
310-310722-2	MW-2	Total/NA	Water	I-3765-85	
310-310722-3	MW-5R	Total/NA	Water	I-3765-85	
310-310722-4	MW-6R	Total/NA	Water	I-3765-85	
310-310722-5	MW-10	Total/NA	Water	I-3765-85	
310-310722-6	MW-12	Total/NA	Water	I-3765-85	
310-310722-7	MW-13	Total/NA	Water	I-3765-85	
MB 310-460271/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-460271/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 460417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-310722-9	MW-15R	Total/NA	Water	I-3765-85	
310-310722-12	MW-D	Total/NA	Water	I-3765-85	
MB 310-460417/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-460417/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 460421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-310722-8	MW-14	Total/NA	Water	I-3765-85	
MB 310-460421/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-460421/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Eurofins Cedar Falls

Lab Chronicle

Client: SCS Engineers
Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

Client Sample ID: MW-1

Date Collected: 07/07/25 16:01

Date Received: 07/10/25 16:15

Lab Sample ID: 310-310722-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	460229	WSE8	EET CF	07/12/25 06:21
Total/NA	Prep	3005A			460425	QTZ5	EET CF	07/15/25 09:15
Total/NA	Analysis	6020B		1	460764	NFT2	EET CF	07/16/25 15:16
Total/NA	Analysis	I-3765-85		1	460271	E6KR	EET CF	07/11/25 14:15

Client Sample ID: MW-2

Date Collected: 07/07/25 16:43

Date Received: 07/10/25 16:15

Lab Sample ID: 310-310722-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	460229	WSE8	EET CF	07/12/25 06:44
Total/NA	Prep	3005A			460425	QTZ5	EET CF	07/15/25 09:15
Total/NA	Analysis	6020B		1	460764	NFT2	EET CF	07/16/25 15:18
Total/NA	Analysis	I-3765-85		1	460271	E6KR	EET CF	07/11/25 14:15

Client Sample ID: MW-5R

Date Collected: 07/07/25 17:27

Date Received: 07/10/25 16:15

Lab Sample ID: 310-310722-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	460229	WSE8	EET CF	07/12/25 07:07
Total/NA	Prep	3005A			460425	QTZ5	EET CF	07/15/25 09:15
Total/NA	Analysis	6020B		1	460764	NFT2	EET CF	07/16/25 15:21
Total/NA	Analysis	I-3765-85		1	460271	E6KR	EET CF	07/11/25 14:15

Client Sample ID: MW-6R

Date Collected: 07/07/25 18:51

Date Received: 07/10/25 16:15

Lab Sample ID: 310-310722-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	460229	WSE8	EET CF	07/12/25 07:29
Total/NA	Prep	3005A			460425	QTZ5	EET CF	07/15/25 09:15
Total/NA	Analysis	6020B		1	460764	NFT2	EET CF	07/16/25 15:23
Total/NA	Analysis	I-3765-85		1	460271	E6KR	EET CF	07/11/25 14:15

Client Sample ID: MW-10

Date Collected: 07/07/25 20:49

Date Received: 07/10/25 16:15

Lab Sample ID: 310-310722-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	460229	WSE8	EET CF	07/12/25 07:52
Total/NA	Prep	3005A			460425	QTZ5	EET CF	07/15/25 09:15
Total/NA	Analysis	6020B		1	460764	NFT2	EET CF	07/16/25 15:26
Total/NA	Analysis	I-3765-85		1	460271	E6KR	EET CF	07/11/25 14:15

Eurofins Cedar Falls

Lab Chronicle

Client: SCS Engineers
Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

Client Sample ID: MW-12

Date Collected: 07/07/25 20:10

Date Received: 07/10/25 16:15

Lab Sample ID: 310-310722-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	460229	WSE8	EET CF	07/12/25 08:14
Total/NA	Prep	3005A			460425	QTZ5	EET CF	07/15/25 09:15
Total/NA	Analysis	6020B		1	460764	NFT2	EET CF	07/16/25 15:29
Total/NA	Analysis	I-3765-85		1	460271	E6KR	EET CF	07/11/25 14:15

Client Sample ID: MW-13

Date Collected: 07/07/25 18:11

Date Received: 07/10/25 16:15

Lab Sample ID: 310-310722-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	460229	WSE8	EET CF	07/12/25 08:37
Total/NA	Prep	3005A			460425	QTZ5	EET CF	07/15/25 09:15
Total/NA	Analysis	6020B		1	460764	NFT2	EET CF	07/16/25 15:31
Total/NA	Analysis	I-3765-85		1	460271	E6KR	EET CF	07/11/25 14:15

Client Sample ID: MW-14

Date Collected: 07/08/25 11:43

Date Received: 07/10/25 16:15

Lab Sample ID: 310-310722-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	460229	WSE8	EET CF	07/12/25 09:00
Total/NA	Prep	8151A			671010	QJZ6	ELLE	07/14/25 15:27
Total/NA	Analysis	8151A		1	671204	UAMZ	ELLE	07/15/25 10:44
Total/NA	Prep	3005A			460425	QTZ5	EET CF	07/15/25 09:15
Total/NA	Analysis	6020B		1	460764	NFT2	EET CF	07/16/25 15:34
Total/NA	Analysis	I-3765-85		1	460421	E6KR	EET CF	07/14/25 15:49

Client Sample ID: MW-15R

Date Collected: 07/08/25 10:30

Date Received: 07/10/25 16:15

Lab Sample ID: 310-310722-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	460229	WSE8	EET CF	07/12/25 09:22
Total/NA	Prep	3005A			460582	QTZ5	EET CF	07/16/25 07:40
Total/NA	Analysis	6020B		1	460920	NFT2	EET CF	07/17/25 21:27
Total/NA	Analysis	I-3765-85		1	460417	E6KR	EET CF	07/14/25 15:09

Client Sample ID: Trip Blank 1

Date Collected: 07/08/25 00:00

Date Received: 07/10/25 16:15

Lab Sample ID: 310-310722-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	460229	WSE8	EET CF	07/12/25 04:06

Eurofins Cedar Falls

Lab Chronicle

Client: SCS Engineers
Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

Client Sample ID: Trip Blank 2

Date Collected: 07/08/25 00:00

Date Received: 07/10/25 16:15

Lab Sample ID: 310-310722-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	460229	WSE8	EET CF	07/12/25 04:29

Client Sample ID: MW-D

Date Collected: 07/07/25 20:10

Date Received: 07/10/25 16:15

Lab Sample ID: 310-310722-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	460229	WSE8	EET CF	07/12/25 09:45
Total/NA	Prep	3005A			460582	QTZ5	EET CF	07/16/25 07:40
Total/NA	Analysis	6020B		1	460920	NFT2	EET CF	07/17/25 21:30
Total/NA	Analysis	I-3765-85		1	460417	E6KR	EET CF	07/14/25 15:09

Laboratory References:

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

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

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

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	07-28-25
A2LA	Dept. of Energy	0001.01	08-27-25
A2LA	ISO/IEC 17025	0001.01	08-27-25
Alabama	State	43200	01-31-26
Alaska	State	PA00009	06-30-26
Alaska (UST)	State	17-027	12-30-26
Arizona	State	AZ0780	03-12-26
Arkansas DEQ	State	88-00660	08-07-25
California	State	2792	01-31-26
Colorado	State	PA00009	06-30-26
Connecticut	State	PH-0746	06-30-27
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-26
Delaware (DW)	State	N/A	01-31-26
Florida	NELAP	E87997	07-01-26
Georgia (DW)	State	C048	01-31-26
Illinois	NELAP	200027	10-28-25
Iowa	State	361	03-01-26
Kansas	NELAP	E-10151	10-31-25
Kentucky (DW)	State	KY90088	12-31-25
Kentucky (UST)	State	0001.01	08-27-25
Kentucky (WW)	State	KY90088	12-31-25
Louisiana (All)	NELAP	02055	06-30-26
Maine	State	2019012	08-10-25
Maryland	State	100	06-30-26
Massachusetts	State	M-PA009	06-30-26
Michigan	State	9930	01-31-26
Minnesota	NELAP	042-999-487	12-31-25
Mississippi	State	023	01-31-26
Missouri	State	450	01-31-28
Montana (DW)	State	0098	01-01-26
Nebraska	State	NE-OS-32-17	01-31-26
New Hampshire	NELAP	2730	09-15-25
New Jersey	NELAP	PA011	08-11-25
New York	NELAP	10670	07-15-25
North Carolina (DW)	State	42705	07-31-26
North Carolina (WW/SW)	State	521	09-01-25
North Dakota	State	R-205	01-31-24 *
Oklahoma	NELAP	9804	08-31-25
Oregon	NELAP	PA200001	09-11-25
Pennsylvania	NELAP	36-00037	07-23-25
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-29
Rhode Island	State	LAO00338	12-30-25
South Carolina	State	89002	01-31-26
Tennessee	State	02838	01-31-26

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Cedar Falls

Accreditation/Certification Summary

Client: SCS Engineers

Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1

SDG: Sac County Sanitary Landfill

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704194-23-46	08-31-25
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-27-25
Virginia	NELAP	460182	07-20-25
Washington	State	C457	10-23-25
West Virginia (DW)	State	9906 C	03-31-26
West Virginia DEP	State	055	07-24-25
Wyoming	State	8TMS-L	01-31-26
Wyoming (UST)	A2LA	0001.01	08-27-25

Method Summary

Client: SCS Engineers
Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1
SDG: Sac County Sanitary Landfill

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
8151A	Herbicides (GC)	SW846	ELLE
6020B	Metals (ICP/MS)	SW846	EET CF
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
3005A	Preparation, Total Metals	SW846	EET CF
5030B	Purge and Trap	SW846	EET CF
8151A	Extraction (Herbicides)	SW846	ELLE

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

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300



310-310722 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>SCS</u>			
City/State:	CITY <u>W. Des Moines</u>	STATE <u>IA</u>	Project
Receipt Information			
Date/Time Received:	DATE <u>7-10-25</u>	TIME <u>1615</u>	Received By: <u>PH</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>MW-1, 2, 5R, 6R, 10, 12</u>			
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>AF</u>		Correction Factor (°C): <u>α</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>0.9</u>		Corrected Temp (°C):	
• Sample Container Temperature			
Container(s) used:	<u>CONTAINER 1</u>		<u>CONTAINER 2</u>
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>W. Des Moines</u>	STATE <u>IA</u>	Project
Receipt Information			
Date/Time Received.	DATE <u>7-10-25</u>	TIME <u>1615</u>	Received By: <u>PH</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>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>MW-13, 14, 15R, D</u>			
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other ☐ NONE			
Thermometer ID: <u>AF</u>		Correction Factor (°C). <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C). <u>0.9</u>		Corrected Temp (°C). <u>0.9</u>	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1		CONTAINER 2
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			
<u>Received MW-D</u>			

Chain of Custody Record

Eurofins TestAmerica, Cedar Falls
3019 Venture Way

Cedar Falls IA 50613-6907 phone 319 277 2401 fax 319 277 2425
Eurofins TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

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

Client Contact		Site Contact: Sean Marczewski		Date: _____		COC No: _____ of _____ COCs	
SCS Engineers		Lab Contact: Sam Miller		Carrier: _____		Sampler: _____	
1690 All-State Court, Suite 100		Analysis Turnaround Time		For Lab Use Only		Walk-in Client: _____	
West Des Moines, IA 50265		☐ CALENDAR DAYS ☐ WORKING DAYS		Lab Sampling		Job / SDG No: _____	
515-631-6160		Other: ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Trip Blank		Sample Specific Notes: _____	
Project Name: Sac County 2nd 2025 GW Sampling Event		Sample Date		Sample Type (C-Comp, G-Grab)		Matrix	
Site: Sac County Sanitary Landfill		Sample Time		# of Cont.			
P O # 27225365 26							

Sample Identification	Sample Date	Sample Time	Sample Type (C-Comp, G-Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Metals List	Appendix I VOCs	Silvex [2,4,5-TP][2C]	Total Suspended Solids	Therm ID No
MW-1	7-7	16:01	GW	GW				X	X			
MW-2	7-7	16:43	GW	GW				X	X			
MW-5R	7-7	17:27	GW	GW				X	X			
MW-6R	7-7	18:51	GW	GW				X	X			
MW-10	7-7	20:49	GW	GW				X	X			
MW-12	7-7	20:10	GW	GW				X	X			
MW-13	7-7	19:11	GW	GW				X	X			
MW-14	7-8	11:45	GW	GW				X	X			
MW-15R	7-8	10:50	GW	GW				X	X			
GWD-1	7-7	—	—	—				X	X			
MW-D								X	X			
Trip Blank								X	X			

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

Possible Hazard Identification

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

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

Special Instructions/QC Requirements & Comments: Metals List: Arsenic, Barium, Cadmium, Cobalt, Copper, Lead, Nickel, Selenium, Thallium, Vanadium, Zinc

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No. _____	Cooler Temp (°C) Obs'd _____	Corr'd _____	Therm ID No _____
Relinquished by: <u>Garrett Horvath</u>	Company: <u>SCS</u>	Date/Time: <u>7-10 10:05</u>	Received by: _____	Date/Time: _____
Relinquished by: _____	Company: _____	Date/Time: _____	Received by: _____	Date/Time: _____
Relinquished by: _____	Company: _____	Date/Time: _____	Received in Laboratory by: <u>114</u>	Date/Time: <u>7-10-25 13:30</u>

Form No. CA-C-WI-002, Rev 4.23, dated 4/16/2019

1615

3019 Venture Way
Cedar Falls, IA 50613
Phone: 319-277-2401 Fax: 319-277-2425

eurolins Environment Testing

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Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-310722-1
SDG Number: Sac County Sanitary Landfill

Login Number: 310722

List Number: 1

Creator: Homolar, Dana J

List Source: Eurofins Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
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	

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-310722-1

SDG Number: Sac County Sanitary Landfill

Login Number: 310722

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 2

List Creation: 07/12/25 02:56 PM

Creator: Foreman, Kai

Question	Answer	Comment
The cooler's custody seal is 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 acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

Quantitation Limit Exceptions Summary

Client: SCS Engineers

Project/Site: Sac County 2nd 2025 GW Sampling Event

Job ID: 310-310722-1

SDG: Sac County Sanitary Landfill

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



Appendix B-2

Data Validation Documentation

QA/QC Completed by: Semir Omerovic

Sample Date: 5/1/2025

Site Name: Sac County Sanitary Landfill

Project Type: Sac County Sanitary Landfill - 1st 2025 Semi-Annual Groundwater Sampling Event

Laboratory: Eurofins TestAmerica, Cedar Falls

Lab Job ID: 310-305613-1

Lab Report Date: 5/13/2025

	OK	NO	N/A	NOTES
Sample Collection and Sample Holding				
Chain of Custody	X			
Temperature	X			
Preservation	X			
Condition		X		Method 8151A: The following sample was diluted due to the nature of the sample matrix: MW-14 (310-305613-8). Elevated reporting limits (RLs) are provided.
Correct Constituents Analyzed	X			
Case Narrative	X			
Holding Times	X			
Analytical Sensitivity and Blanks				
Method Blank Detections	X			No detections.
Trip Blank Detections	X			No detections.
Accuracy				
ICV/CCV		X		Method 8260D: The continuing calibration verification (CCV) associated with batch 310-453819 recovered outside of the controllimits for Bromomethane (-23.3%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 310-453819/4). Method 8260D: The continuing calibration verification (CCV) associated with batch 310-453821 recovered outside of the control limits for Bromomethane (-20.7%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 310-453821/4).
LCS/LCSD	X			
MS/MSD	X			
Surrogates (organics only)	X			
Precision				
QA/QC Sample RPDs	X			
Field Duplicates	X			Sample MW-5R and duplicate MW-D had less than 50% RPD for analyzed parameters.

QA/QC Completed by: Semir Omerovic

Sample Date: 7/7/2025

Site Name: Sac County Sanitary Landfill

Project Type: Sac County Sanitary Landfill - 2nd 2025 Semi-Annual Groundwater Sampling Event

Laboratory: Eurofins TestAmerica, Cedar Falls

Lab Job ID: 310-310722-1

Lab Report Date: 11/5/2025

	OK	NO	N/A	NOTES
Sample Collection and Sample Holding				
Chain of Custody	X			
Temperature	X			
Preservation	X			
Condition		X		Method 8260D: The method requirement for no headspace was not met. The following volatile sample was analyzed with headspace in the sample container: Trip Blank 2 (310-310722-11).
Correct Constituents Analyzed	X			
Case Narrative	X			
Holding Times	X			
Analytical Sensitivity and Blanks				
Method Blank Detections	X			No detections.
Trip Blank Detections	X			No detections.
Accuracy				
ICV/CCV		X		Method 8260D: The continuing calibration verification (CCV) associated with batch 310-460229 recovered outside of the control limits for trans-1,3-Dichloropropene (-21.7%D) and Chlorodibromomethane (-21.0%D). The LCS associated with this CCV passed CCV criteria for the affected analytes; therefore, the data have been reported. The associated sample is:(CCV 310-460229/3). Method 8260D: The continuing calibration verification (CCV) associated with batch 310-460229 recovered outside of the control limits for Bromomethane (-33.5%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 310-460229/4).
LCS/LCSD	X			
MS/MSD	X			
Surrogates (organics only)	X			
Precision				
QA/QC Sample RPDs	X			
Field Duplicates	X			Sample MW-12 and duplicate MW-D had less than 50% RPD for analyzed parameters.



Appendix C

Summary of Groundwater Chemistry

SCS ENGINEERS

Summary of Groundwater Chemistry
Sac County Solid Waste Agency - 81-SDP-01-75P

	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG
Total Metals Constituents										
Arsenic, mg/L (CAS NO - 7440-38-2)	5/1/2025	< 0.002	< 0.002	< 0.002	0.00944	< 0.002	< 0.002	0.00243	0.000604*	0.00146*
	5/1/2025	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 0.002	< 0.002	0.000585*	0.005	< 0.002	< 0.002	0.0019*	< 0.002	0.00213
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A
Barium, mg/L (CAS NO - 7440-39-3)	5/1/2025	0.232	0.112	0.217	0.0585	0.128	0.282	0.145	0.189	0.325
	5/1/2025	N/A	N/A	0.225	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	0.283	0.153	0.255	0.057	0.227	0.383	0.144	0.236	0.315
	7/7/2025	N/A	N/A	N/A	N/A	N/A	0.413	N/A	N/A	N/A
Cadmium, mg/L (CAS NO - 7440-43-9)	5/1/2025	< 0.0002	< 0.0002	0.000149*	0.000179*	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.000121*
	5/1/2025	N/A	N/A	0.000167*	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.000202	< 0.0002
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A
Cobalt, mg/L (CAS NO - 7440-48-4)	5/1/2025	< 0.0005	< 0.0005	< 0.0005	0.019	< 0.0005	0.000186*	0.00303	0.000544	0.00109
	5/1/2025	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 0.0005	< 0.0005	0.000927	0.00423	< 0.0005	< 0.0005	0.00312	0.000521	0.00124
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A
Copper, mg/L (CAS NO - 7440-50-8)	5/1/2025	< 0.005	0.00623	< 0.005	0.0116	0.00362*	< 0.005	< 0.005	< 0.005	< 0.005
	5/1/2025	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A
Lead, mg/L (CAS NO - 7439-92-1)	5/1/2025	< 0.0005	0.000429*	< 0.0005	0.00303	0.000358*	0.000899	< 0.0005	< 0.0005	0.000443*
	5/1/2025	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	0.000474*	0.000341*	< 0.0005	0.000427*	< 0.0005	0.00104	< 0.0005	< 0.0005	< 0.0005
	7/7/2025	N/A	N/A	N/A	N/A	N/A	0.000478*	N/A	N/A	N/A
Nickel, mg/L (CAS NO - 7440-02-0)	5/1/2025	< 0.005	< 0.005	0.00576	0.0533	0.00861	< 0.005	0.0151	0.0093	0.0113
	5/1/2025	N/A	N/A	0.00609	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 0.005	< 0.005	0.00854	0.0189	0.00658	< 0.005	0.0144	0.0192	0.014
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A
Selenium, mg/L (CAS NO - 7782-49-2)	5/1/2025	0.00524	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	5/1/2025	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	0.0054	0.00141*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A
Thallium, mg/L (CAS NO - 7440-28-0)	5/1/2025	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	5/1/2025	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A
Vanadium, mg/L (CAS NO - 7440-62-2)	5/1/2025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	5/1/2025	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A
Zinc, mg/L (CAS NO - 7440-66-6)	5/1/2025	< 0.02	< 0.02	< 0.02	0.0159*	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	5/1/2025	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A
Total Suspended Solids, mg/L (CAS NO - TSS)	5/1/2025	< 1.88	1.75*	2.5	29	< 1.88	1.38*	1.5*	2.38	< 1.88
	5/1/2025	N/A	N/A	2.25	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	2.13	1.5*	2.75	10.8	< 1.88	1.38*	3.87	< 1.88	2.25
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 1.88	N/A	N/A	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
Sac County Solid Waste Agency - 81-SDP-01-75P

	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG
Appendix I VOC Constituents										
1,1,1,2-Tetrachloroethane, ug/L (CAS NO - 630-20-6)	5/1/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/1/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
1,1,1-Trichloroethane, ug/L (CAS NO - 71-55-6)	5/1/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/1/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
1,1,2,2-Tetrachloroethane, ug/L (CAS NO - 79-34-5)	5/1/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/1/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
1,1,2-Trichloroethane, ug/L (CAS NO - 79-00-5)	5/1/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/1/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
1,1-Dichloroethane, ug/L (CAS NO - 75-34-3)	5/1/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/1/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
1,1-Dichloroethene, ug/L (CAS NO - 75-35-4)	5/1/2025	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	5/1/2025	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
1,2,3-Trichloropropane, ug/L (CAS NO - 96-18-4)	5/1/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/1/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
1,2-Dibromo-3-Chloropropane, ug/L (CAS NO - 96-12-8)	5/1/2025	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
	5/1/2025	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 1.2	N/A	N/A	N/A
1,2-Dibromoethane [EDB], ug/L (CAS NO - 106-93-4)	5/1/2025	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
	5/1/2025	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 0.34	N/A	N/A	N/A
1,2-Dichlorobenzene, ug/L (CAS NO - 95-50-1)	5/1/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/1/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
1,2-Dichloroethane, ug/L (CAS NO - 107-06-2)	5/1/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/1/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
1,2-Dichloropropane, ug/L (CAS NO - 78-87-5)	5/1/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/1/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
1,4-Dichlorobenzene, ug/L (CAS NO - 106-46-7)	5/1/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/1/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
2-Butanone, ug/L (CAS NO - 78-93-3)	5/1/2025	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	5/1/2025	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
2-Hexanone, ug/L (CAS NO - 591-78-6)	5/1/2025	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	5/1/2025	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
4-Methyl-2-Pentanone, ug/L (CAS NO - 108-10-1)	5/1/2025	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	5/1/2025	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
Acetone, ug/L (CAS NO - 67-64-1)	5/1/2025	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	5/1/2025	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
Acrylonitrile, ug/L (CAS NO - 107-13-1)	5/1/2025	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	5/1/2025	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
Benzene, ug/L (CAS NO - 71-43-2)	5/1/2025	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	5/1/2025	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A



Summary of Groundwater Chemistry
Sac County Solid Waste Agency - 81-SDP-01-75P

	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG
Appendix I VOC Constituents										
Bromochloromethane, ug/L (CAS NO - 74-97-5)	5/1/2025	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	5/1/2025	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
Bromodichloromethane, ug/L (CAS NO - 75-27-4)	5/1/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/1/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
Bromoform, ug/L (CAS NO - 75-25-2)	5/1/2025	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	5/1/2025	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
Bromomethane, ug/L (CAS NO - 74-83-9)	5/1/2025	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	5/1/2025	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A
Carbon Disulfide, ug/L (CAS NO - 75-15-0)	5/1/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/1/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
Carbon Tetrachloride, ug/L (CAS NO - 56-23-5)	5/1/2025	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	5/1/2025	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
Chlorobenzene, ug/L (CAS NO - 108-90-7)	5/1/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/1/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
Chlorodibromomethane, ug/L (CAS NO - 124-48-1)	5/1/2025	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	5/1/2025	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
Chloroethane, ug/L (CAS NO - 75-00-3)	5/1/2025	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	5/1/2025	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A
Chloroform, ug/L (CAS NO - 67-66-3)	5/1/2025	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
	5/1/2025	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A
Chloromethane, ug/L (CAS NO - 74-87-3)	5/1/2025	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
	5/1/2025	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A
cis-1,2-Dichloroethene, ug/L (CAS NO - 156-59-2)	5/1/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.406*	4.67
	5/1/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.758*	4.95
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
cis-1,3-Dichloropropene, ug/L (CAS NO - 10061-01-5)	5/1/2025	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	5/1/2025	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
Ethylbenzene, ug/L (CAS NO - 100-41-4)	5/1/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/1/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
Iodomethane, ug/L (CAS NO - 74-88-4)	5/1/2025	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	5/1/2025	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
Methylene Bromide, ug/L (CAS NO - 74-95-3)	5/1/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/1/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
Methylene Chloride, ug/L (CAS NO - 75-09-2)	5/1/2025	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	5/1/2025	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
Styrene, ug/L (CAS NO - 100-42-5)	5/1/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/1/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
Tetrachloroethene, ug/L (CAS NO - 127-18-4)	5/1/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/1/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Sac County Solid Waste Agency - 81-SDP-01-75P

	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG
Appendix I VOC Constituents										
Toluene, ug/L (CAS NO - 108-88-3)	5/1/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/1/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
trans-1,2-Dichloroethene, ug/L (CAS NO - 156-60-5)	5/1/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/1/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
trans-1,3-Dichloropropene, ug/L (CAS NO - 10061-02-6)	5/1/2025	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	5/1/2025	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
trans-1,4-Dichloro-2-Butene, ug/L (CAS NO - 110-57-6)	5/1/2025	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	5/1/2025	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
Trichloroethene, ug/L (CAS NO - 79-01-6)	5/1/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/1/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
Trichlorofluoromethane, ug/L (CAS NO - 75-69-4)	5/1/2025	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	5/1/2025	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A
Vinyl Acetate, ug/L (CAS NO - 108-05-4)	5/1/2025	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	5/1/2025	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
Vinyl Chloride, ug/L (CAS NO - 75-01-4)	5/1/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/1/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.68*
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
Xylenes, total, ug/L (CAS NO - 1330-20-7)	5/1/2025	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
	5/1/2025	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2025	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
	7/7/2025	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	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
Sac County Solid Waste Agency - 81-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG
2,4,5-TP [Silvex] [2C], ug/L (CAS NO - 93-72-1)	5/1/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.248	N/A
	7/7/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0497	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.

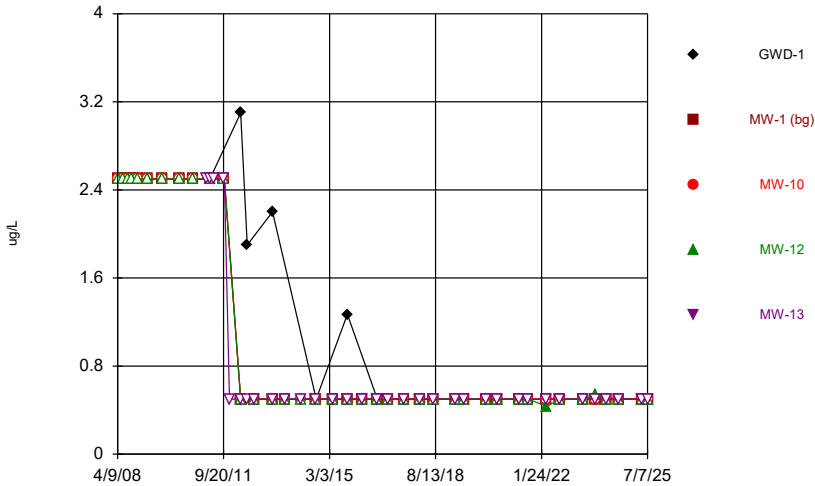
Sampling performed over multiple dates is recorded on the first date sampled. Refer to field forms for exact sample date.



Appendix D

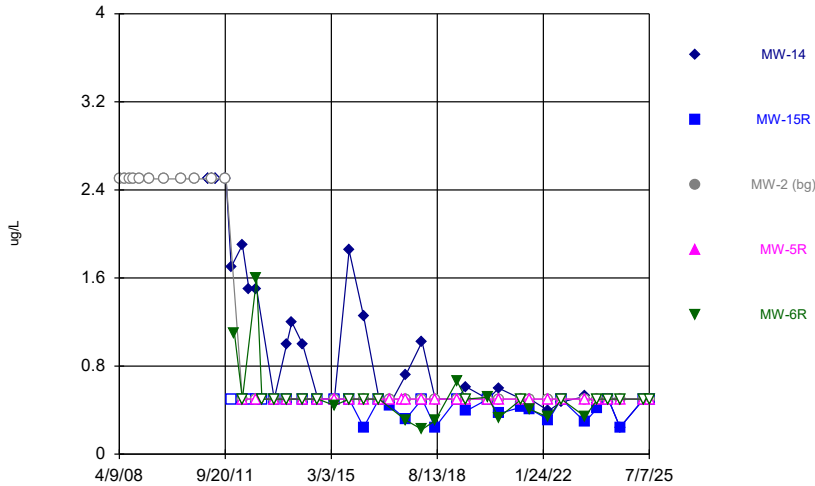
Statistical Method and Output

Time Series



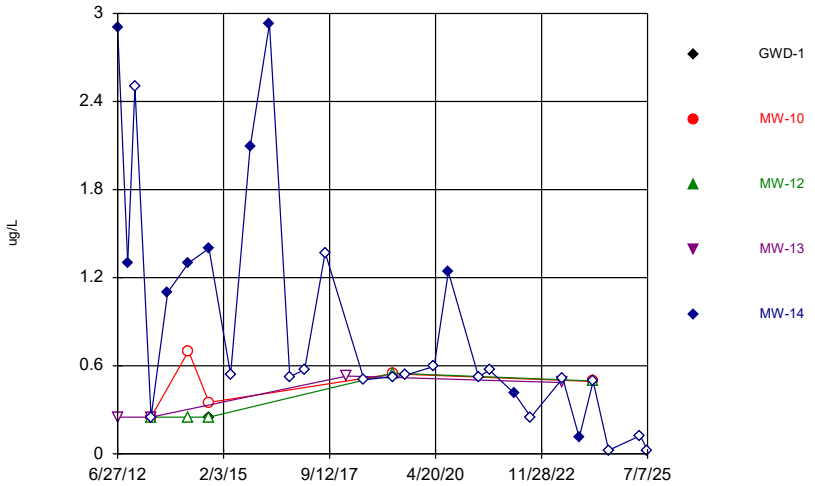
Constituent: 1,1-Dichloroethane Analysis Run 11/3/2025 1:07 PM View: 2025_AWQR-Time_Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Time Series



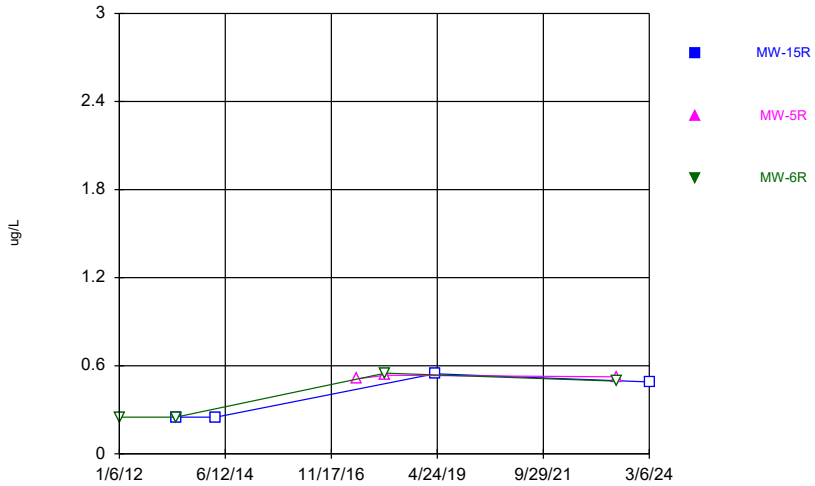
Constituent: 1,1-Dichloroethane Analysis Run 11/3/2025 1:07 PM View: 2025_AWQR-Time_Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Time Series



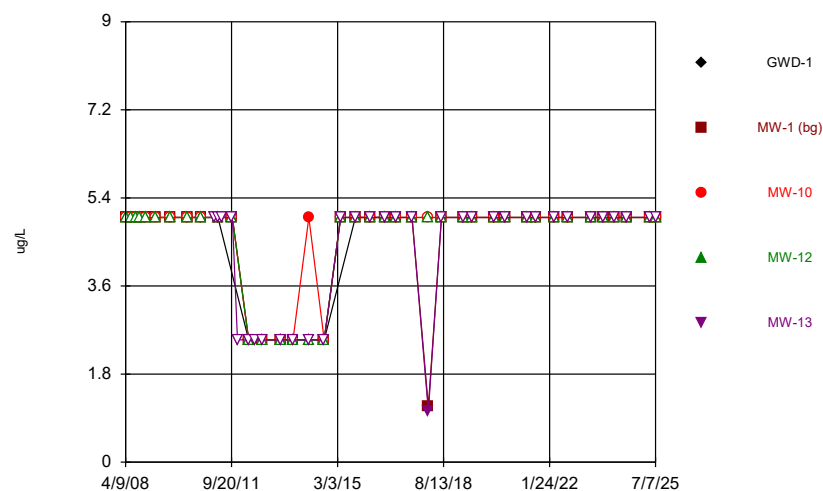
Constituent: 2,4,5-TP [Silvex] [2C] Analysis Run 11/3/2025 1:07 PM View: 2025_AWQR-Time_Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Time Series

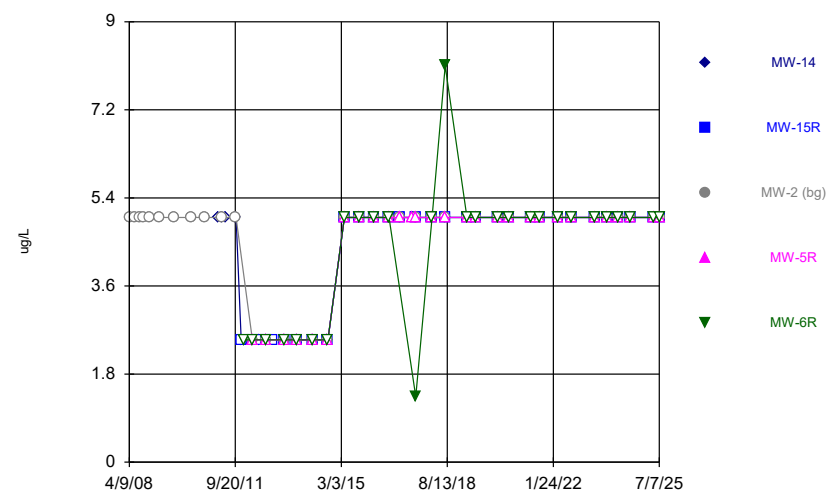


Constituent: 2,4,5-TP [Silvex] [2C] Analysis Run 11/3/2025 1:07 PM View: 2025_AWQR-Time_Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

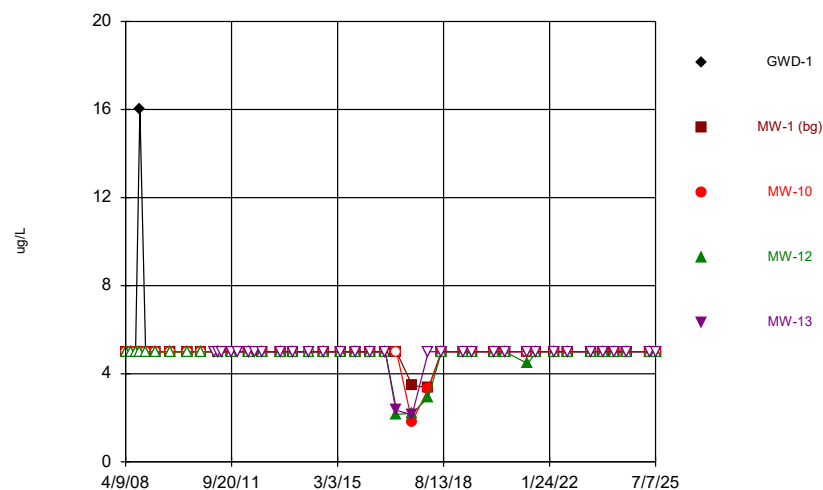
Time Series



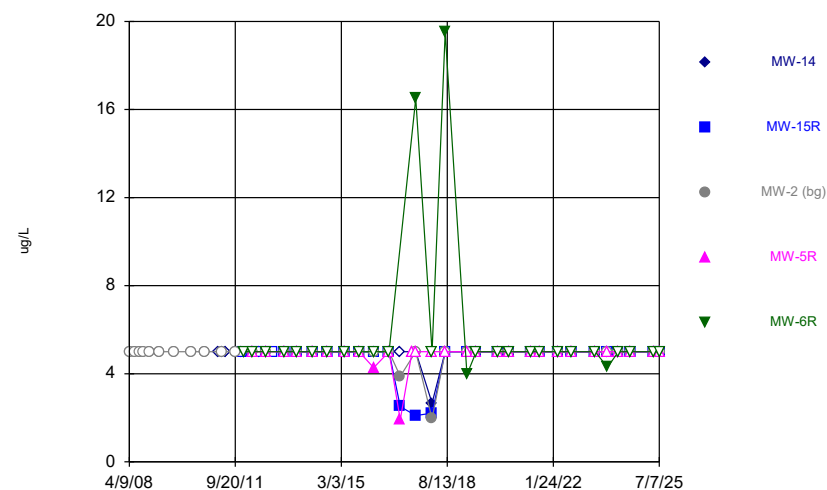
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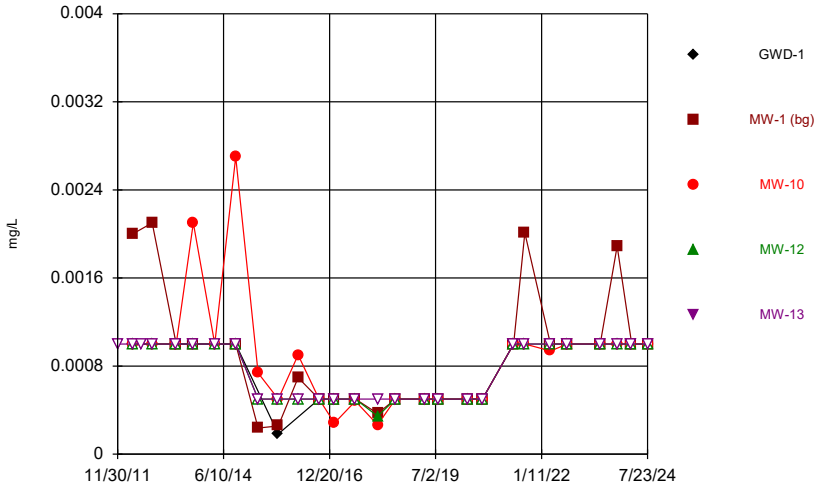
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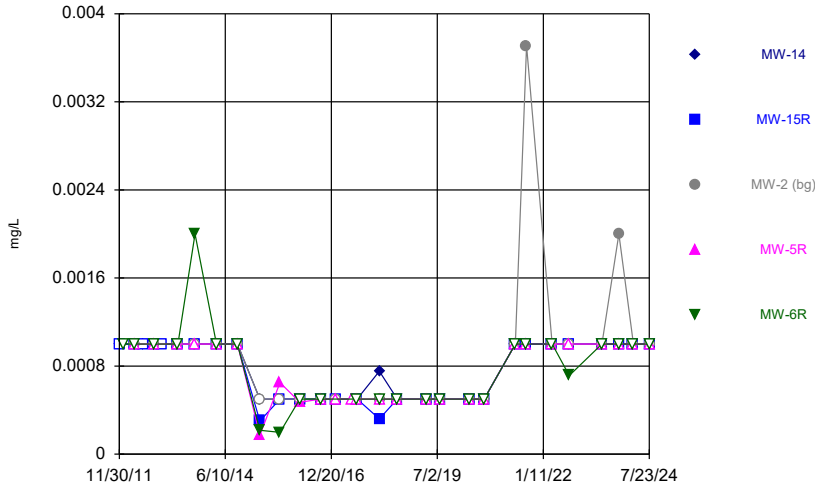
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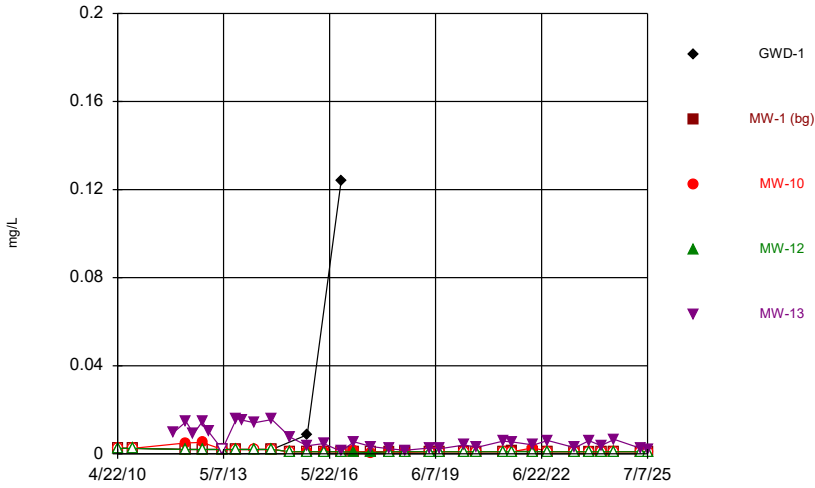
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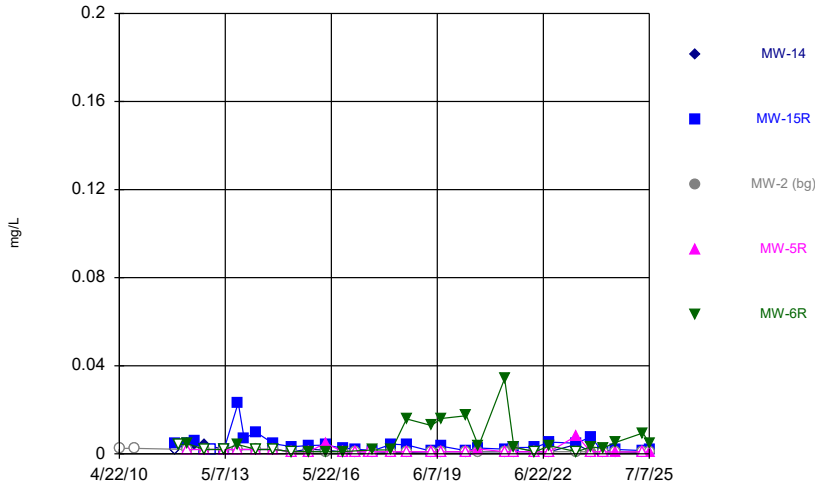
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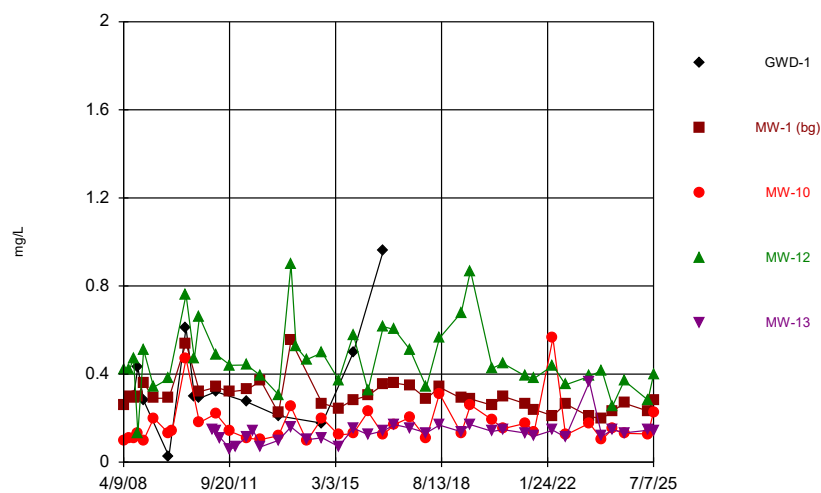
Time Series



Time Series

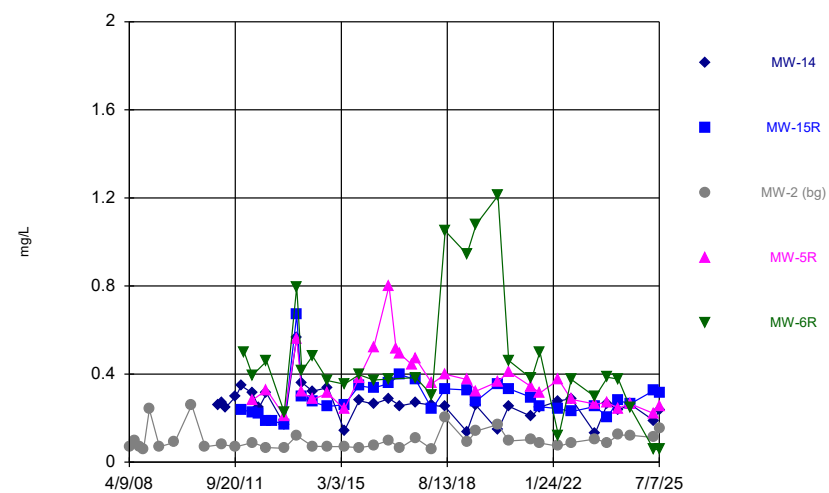


Time Series



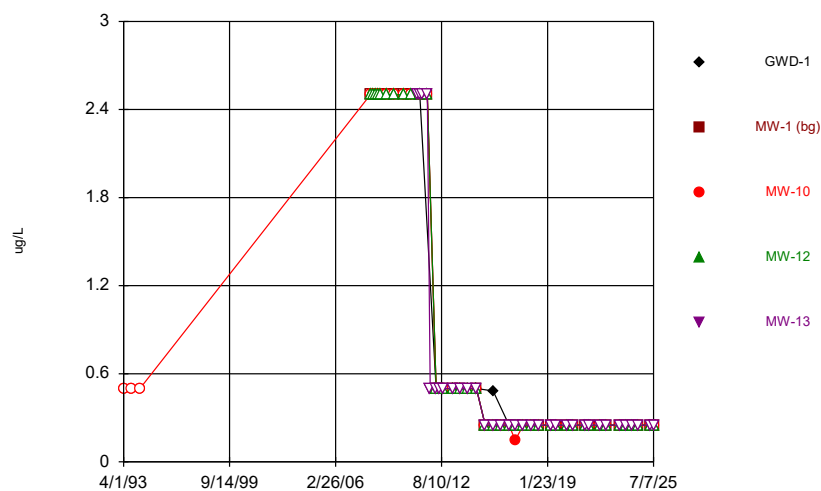
Constituent: Barium Analysis Run 11/3/2025 1:07 PM View: 2025_AWQR-Time_Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Time Series



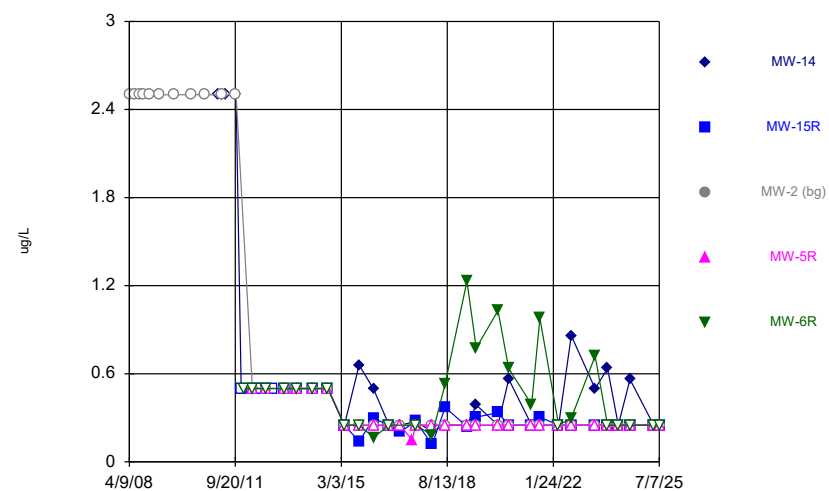
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Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Time Series



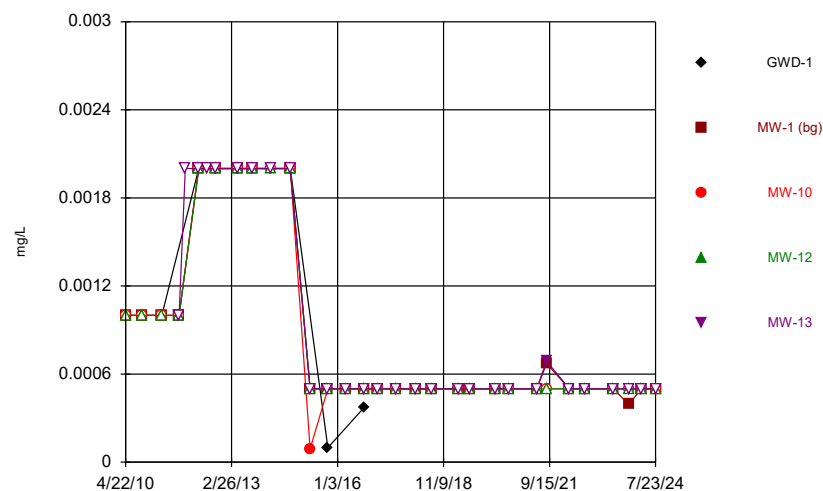
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Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Time Series

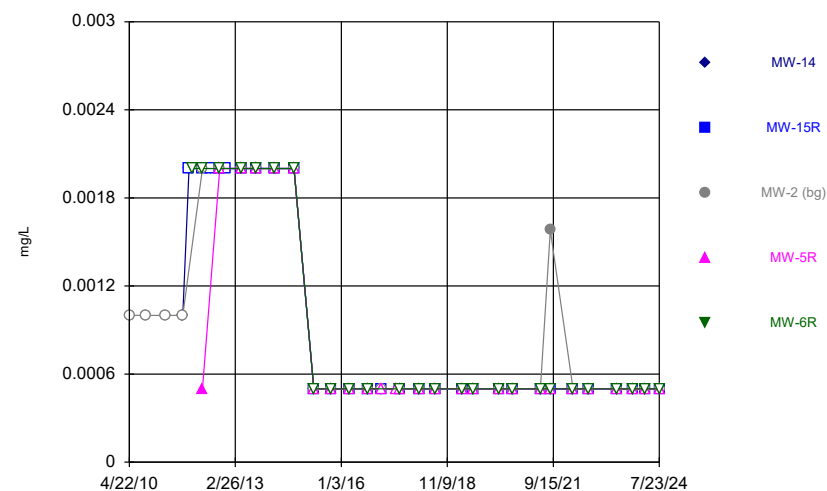


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Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

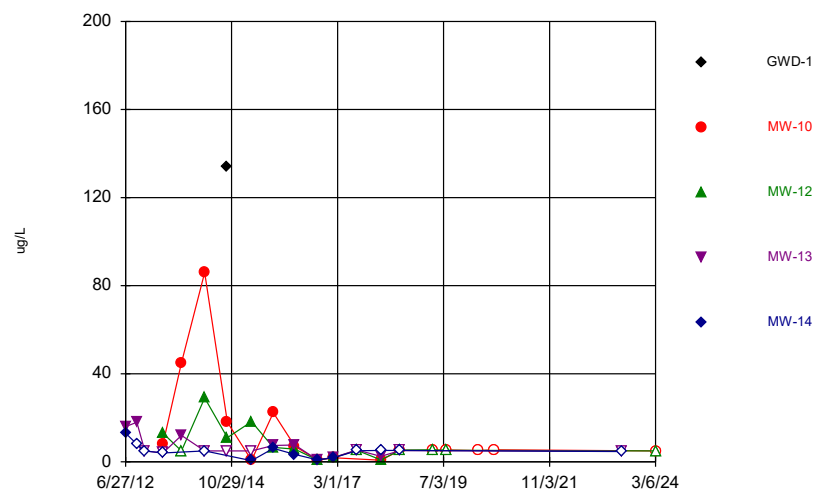
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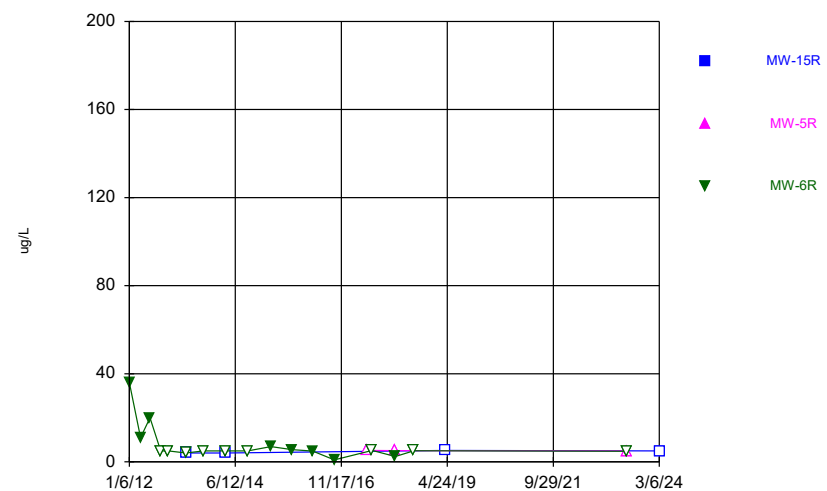
Time Series



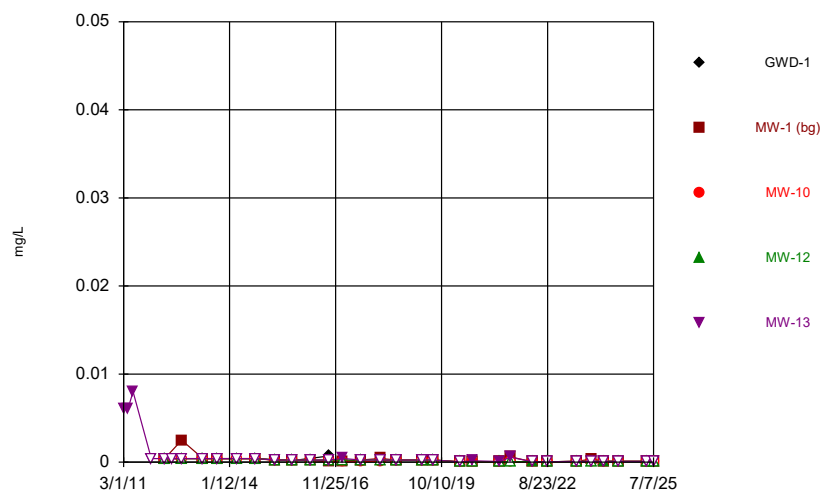
Time Series



Time Series

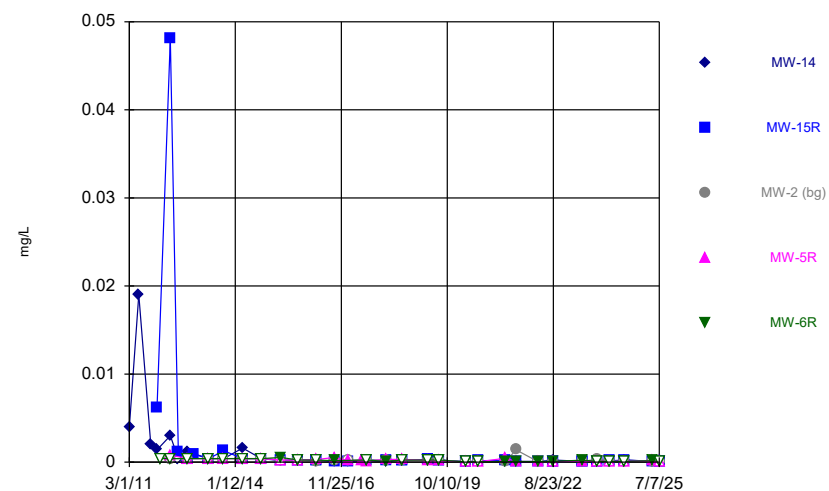


Time Series



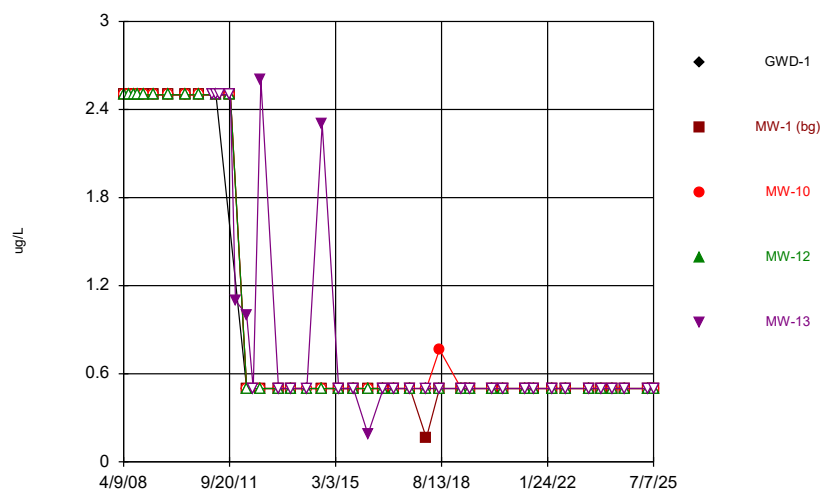
Constituent: Cadmium Analysis Run 11/3/2025 1:07 PM View: 2025_AWQR-Time_Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Time Series



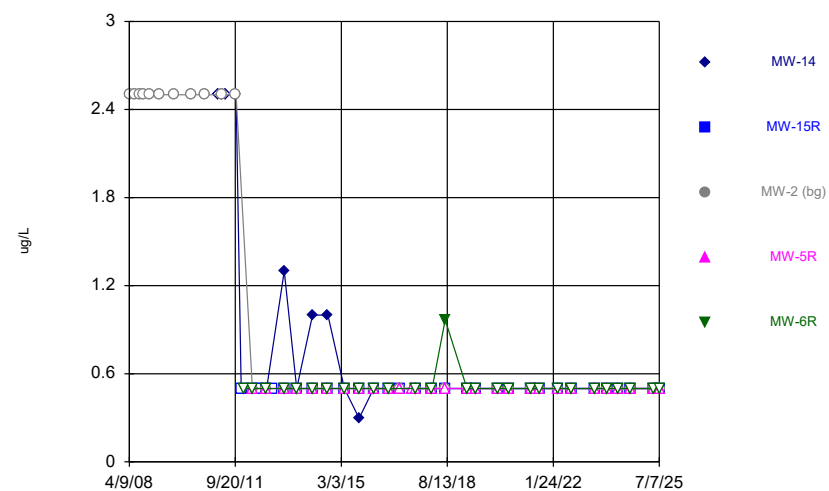
Constituent: Cadmium Analysis Run 11/3/2025 1:07 PM View: 2025_AWQR-Time_Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Time Series



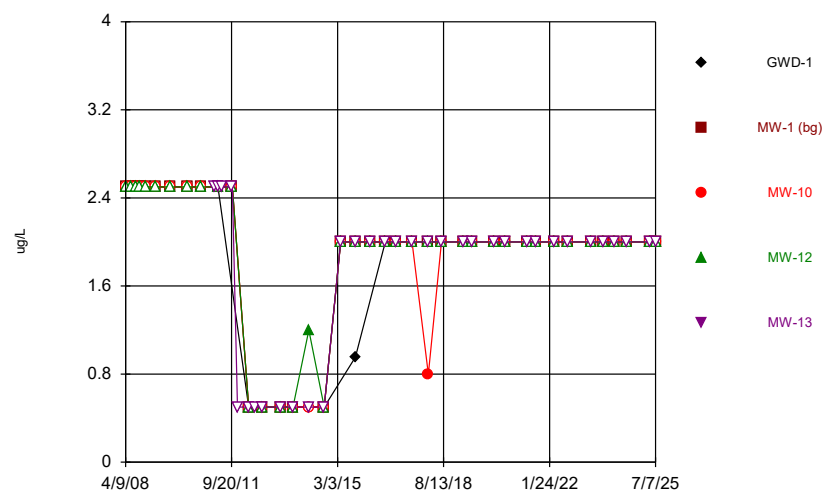
Constituent: Carbon Disulfide Analysis Run 11/3/2025 1:07 PM View: 2025_AWQR-Time_Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Time Series

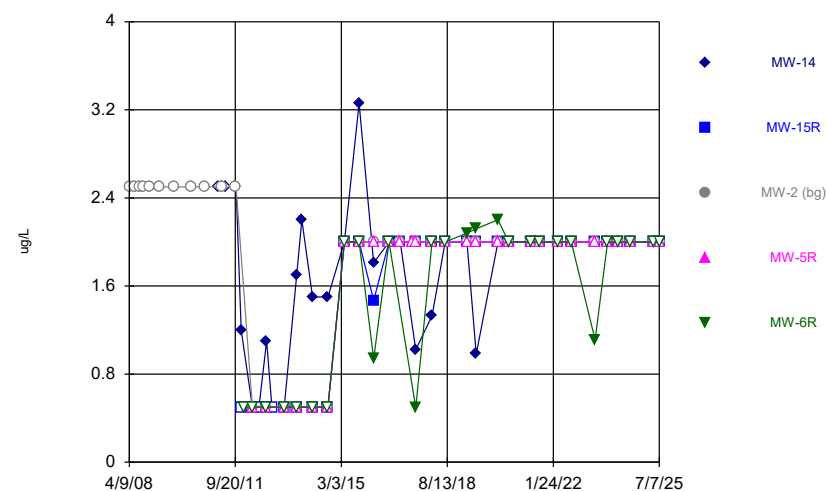


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Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

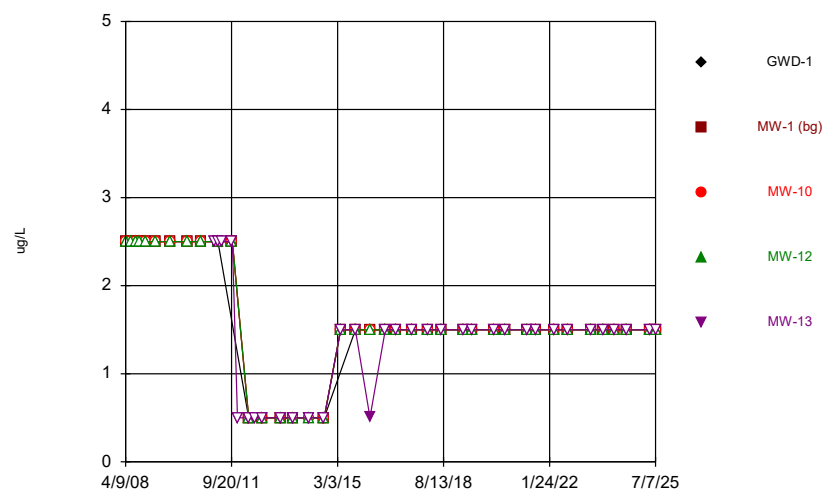
Time Series



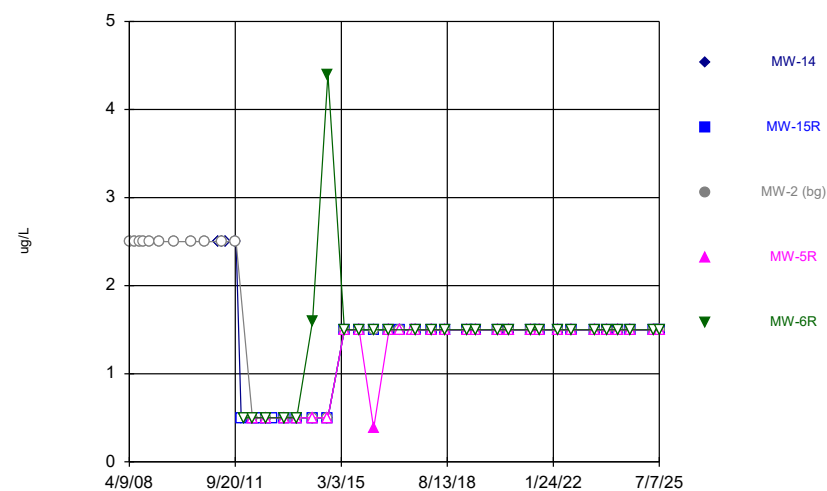
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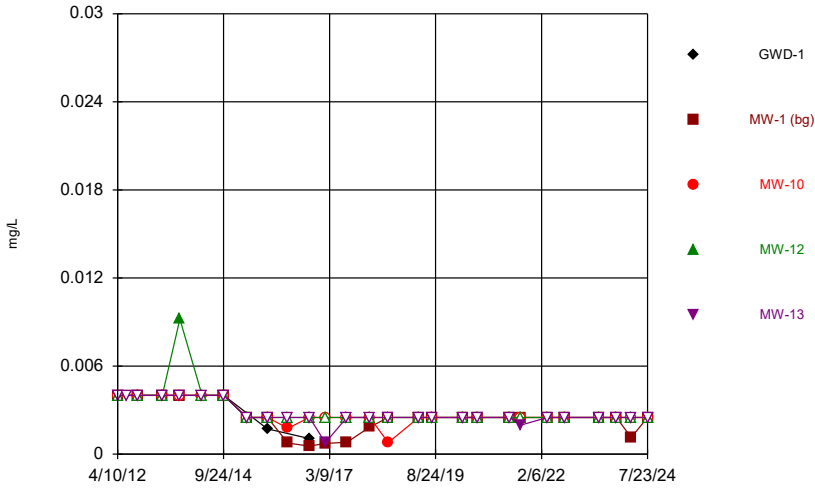
Time Series



Time Series

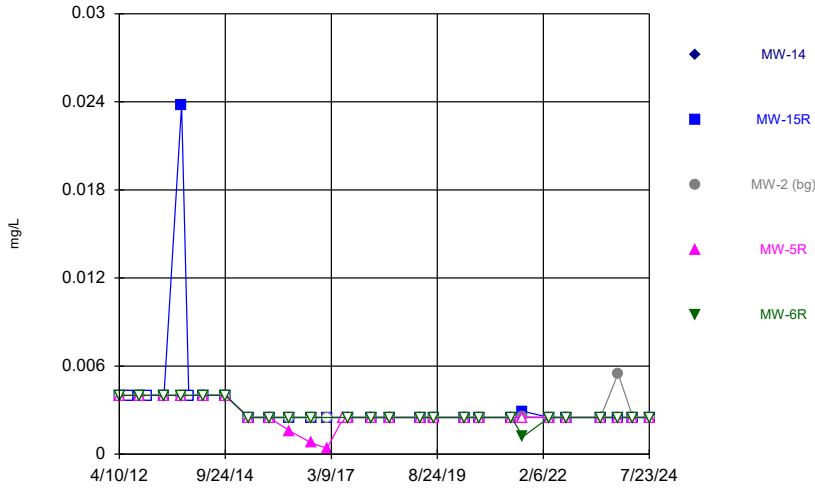


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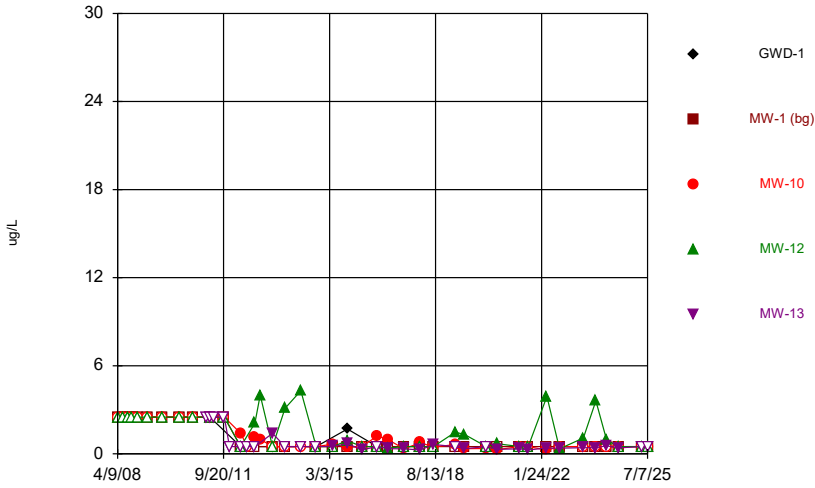
Constituent: Chromium Analysis Run 11/3/2025 1:08 PM View: 2025_AWQR-Time_Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Time Series



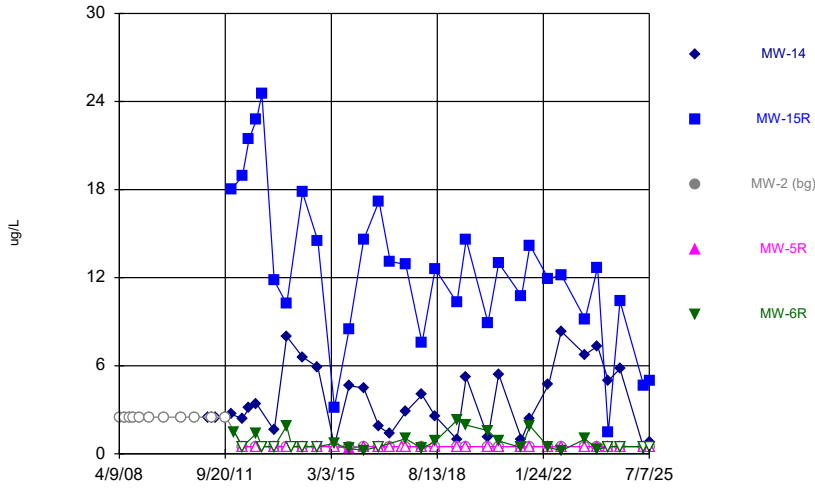
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Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Time Series



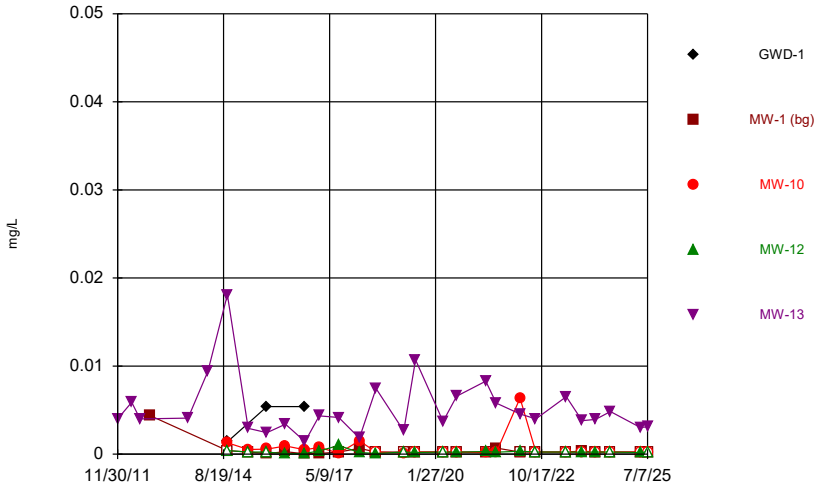
Constituent: cis-1,2-Dichloroethene Analysis Run 11/3/2025 1:08 PM View: 2025_AWQR-Time_Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Time Series

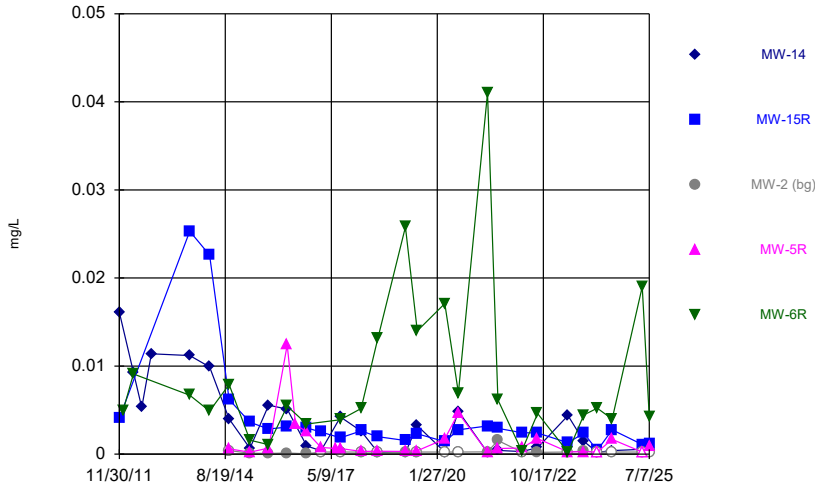


Constituent: cis-1,2-Dichloroethene Analysis Run 11/3/2025 1:08 PM View: 2025_AWQR-Time_Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

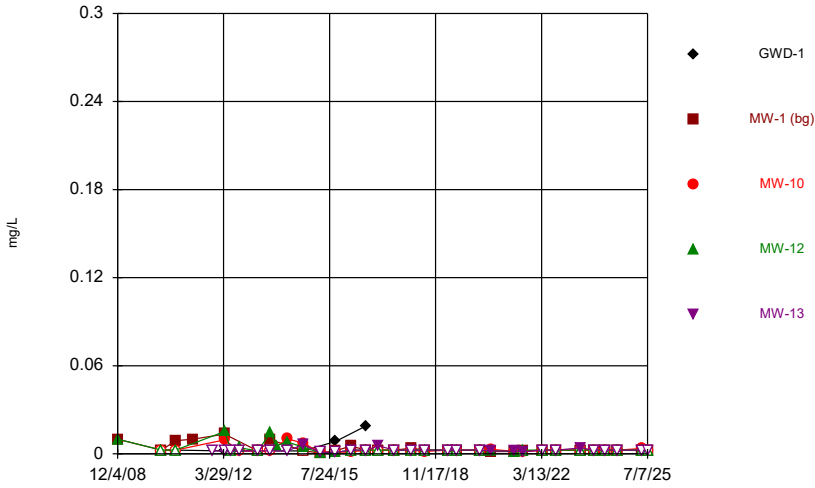
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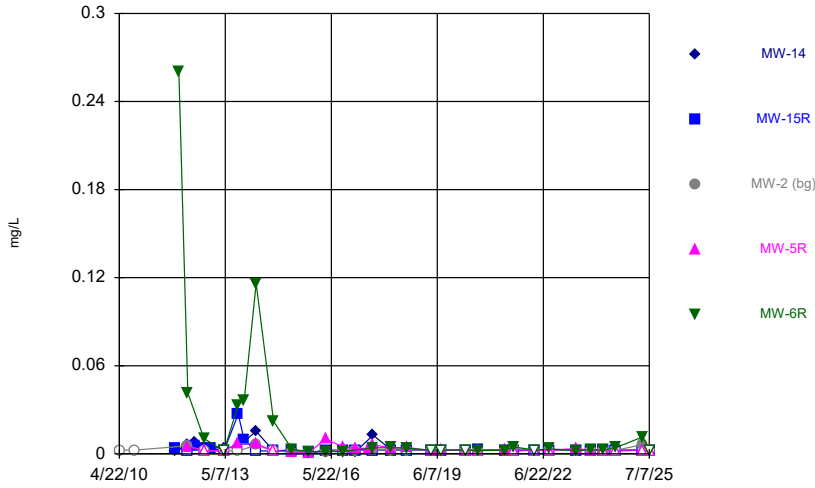
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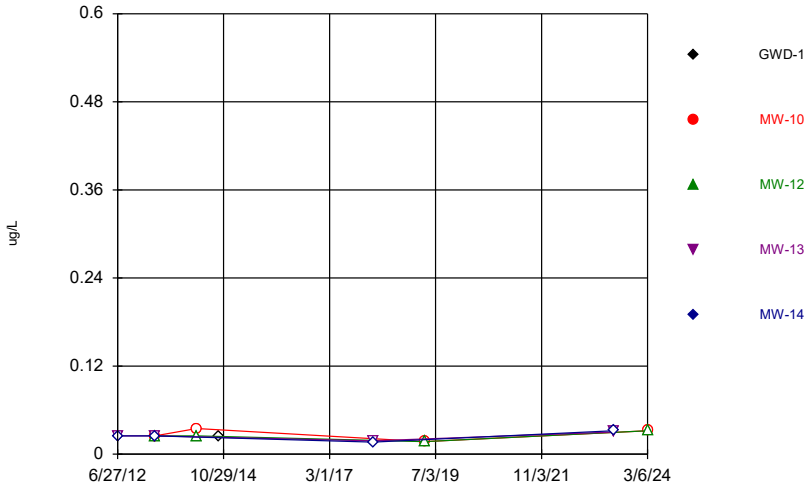
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Time Series

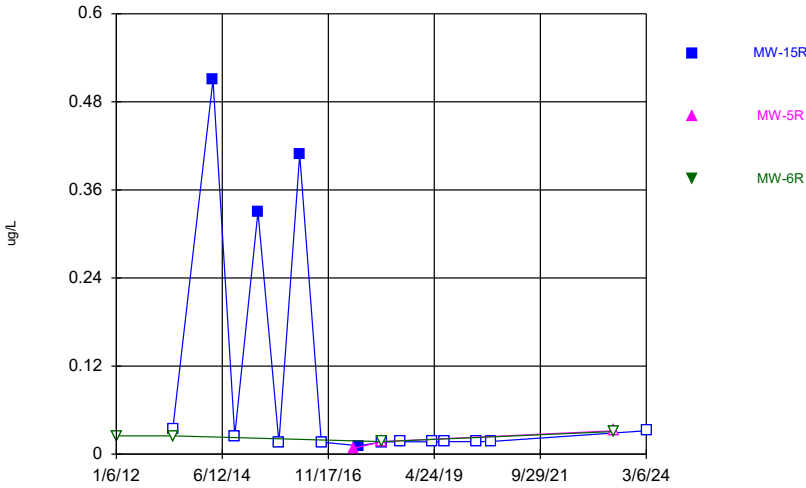


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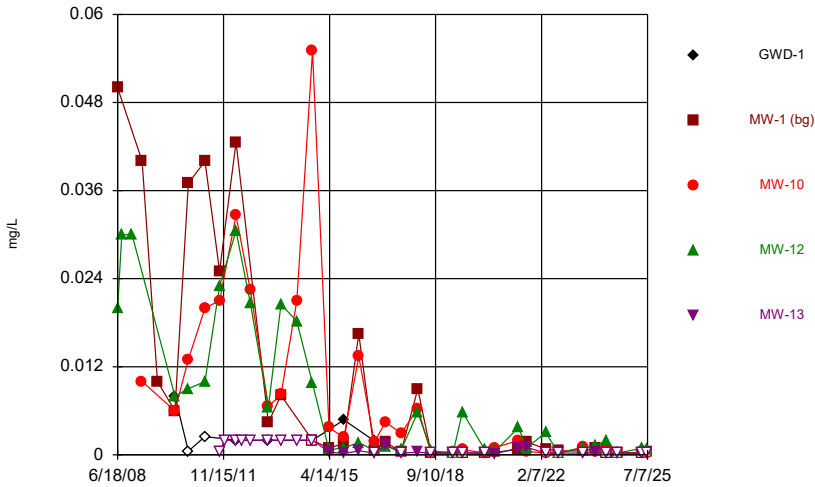
Constituent: Endrin aldehyde Analysis Run 11/3/2025 1:08 PM View: 2025_AWQR-Time_Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Time Series



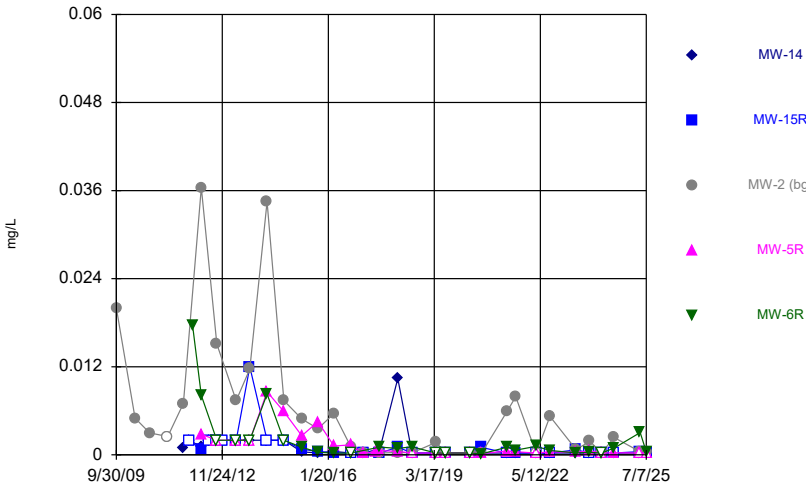
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Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Time Series



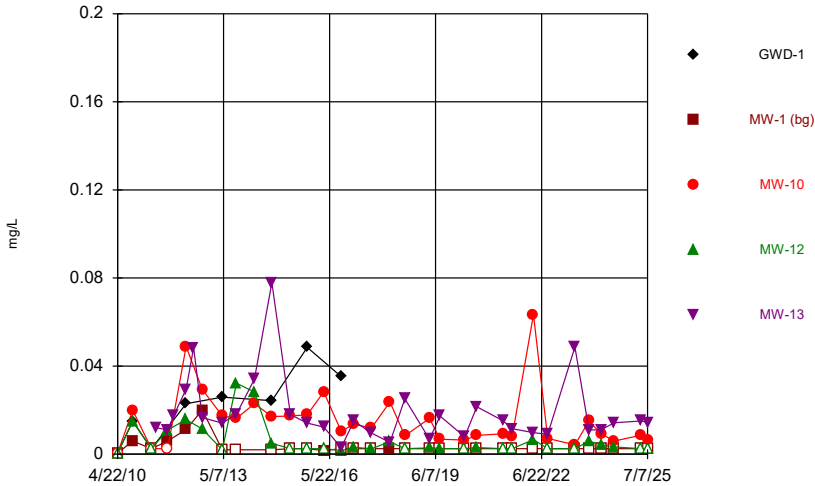
Constituent: Lead Analysis Run 11/3/2025 1:08 PM View: 2025_AWQR-Time_Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Time Series



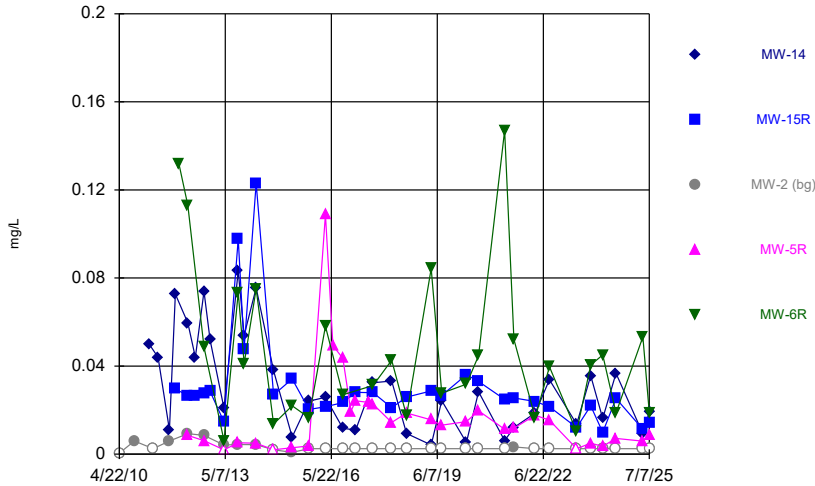
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Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Time Series



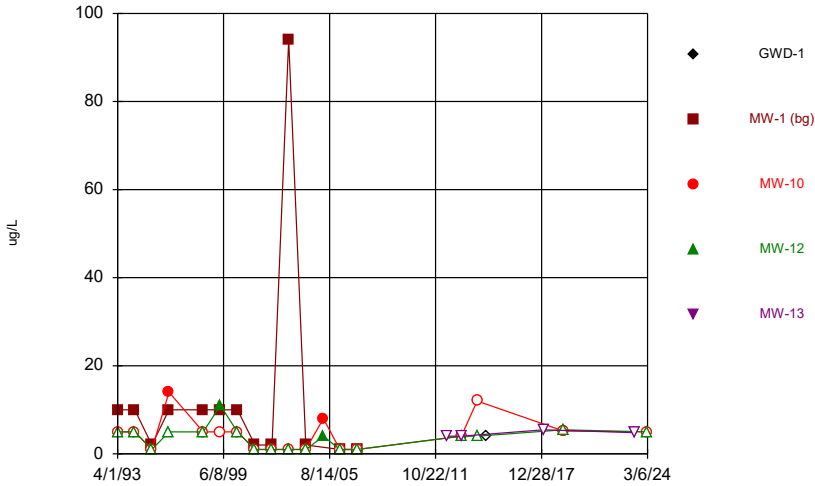
Constituent: Nickel Analysis Run 11/3/2025 1:08 PM View: 2025_AWQR-Time_Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Time Series



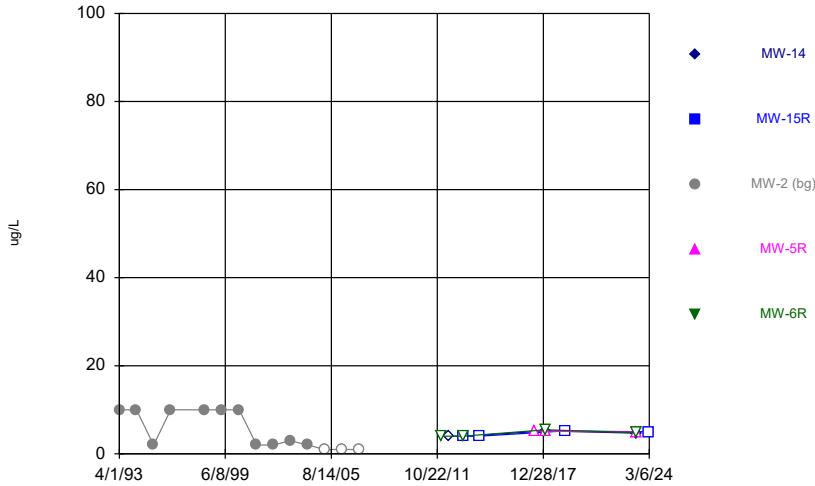
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Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Time Series



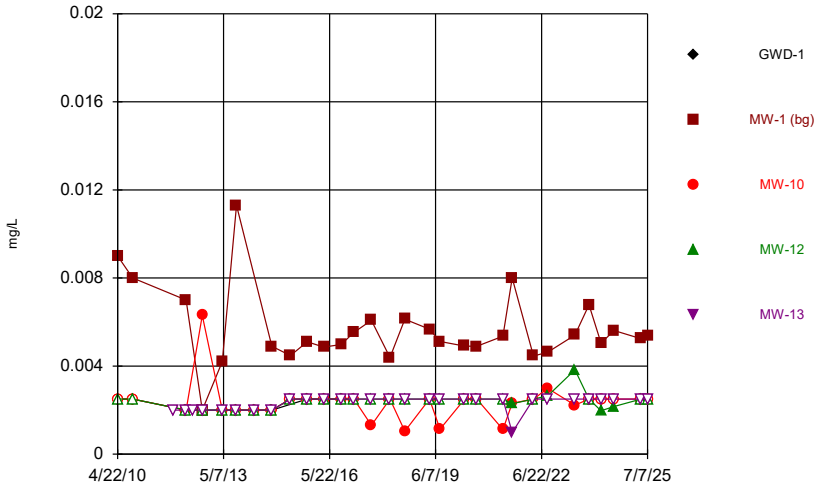
Constituent: Phenol Analysis Run 11/3/2025 1:08 PM View: 2025_AWQR-Time_Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Time Series



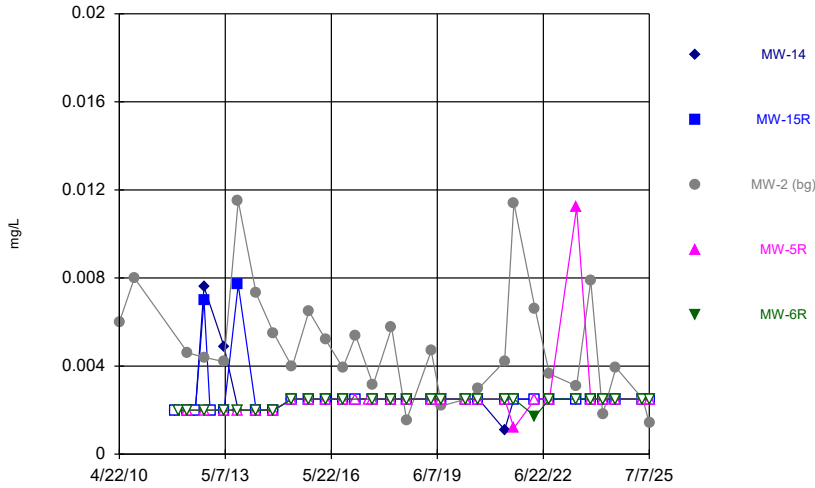
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Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Time Series



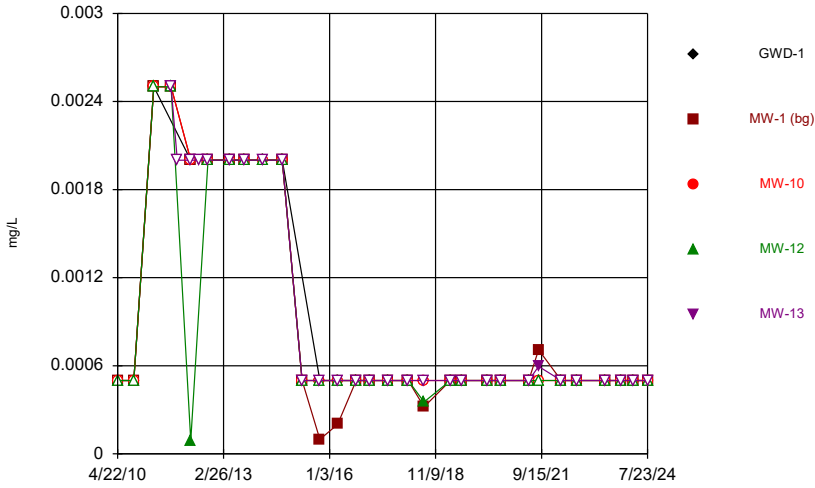
Constituent: Selenium Analysis Run 11/3/2025 1:08 PM View: 2025_AWQR-Time_Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Time Series



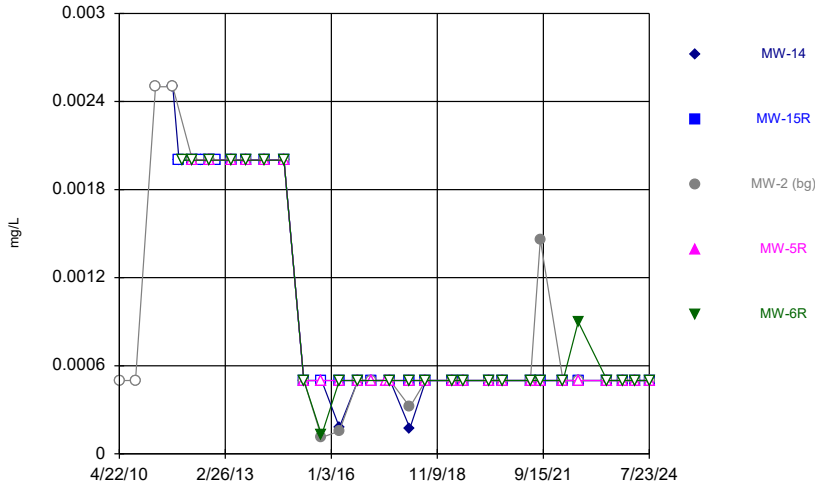
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Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Time Series



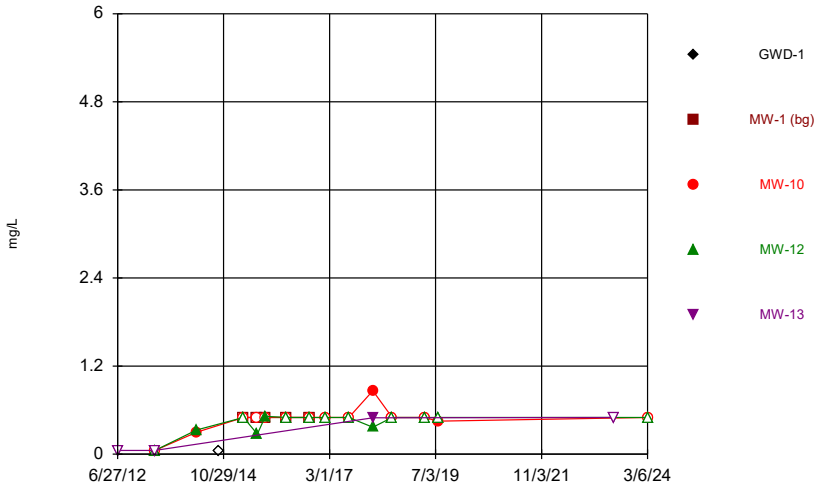
Constituent: Silver Analysis Run 11/3/2025 1:08 PM View: 2025_AWQR-Time_Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Time Series



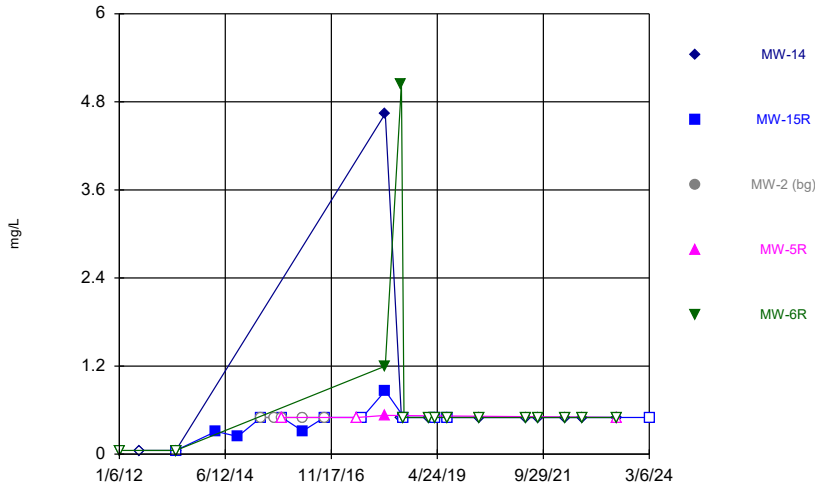
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Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Time Series



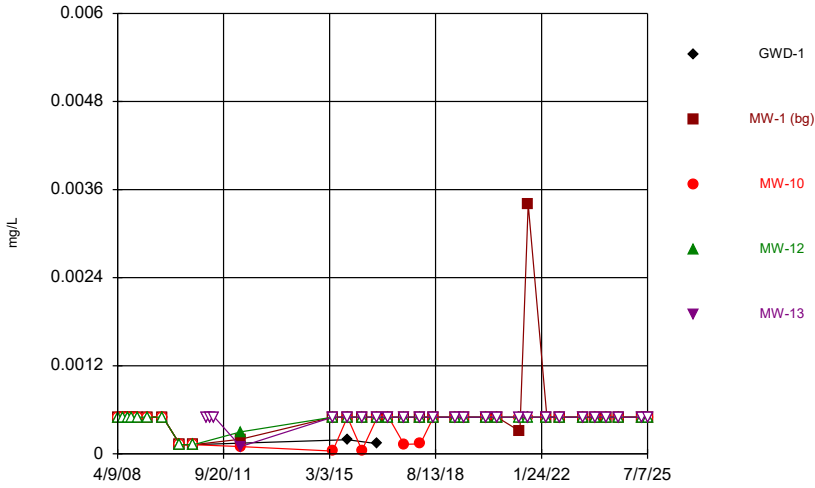
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Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Time Series



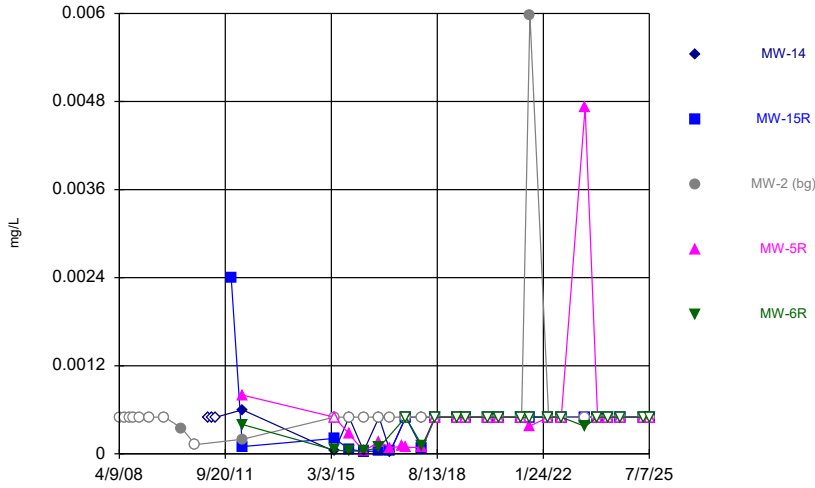
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Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Time Series



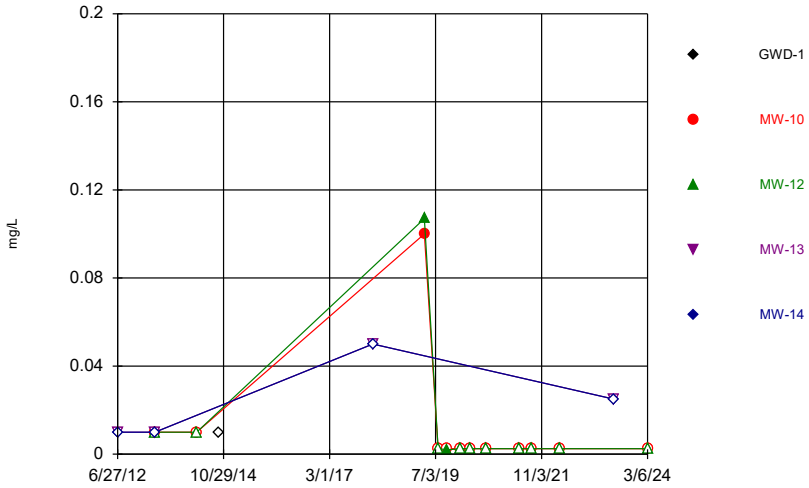
Constituent: Thallium Analysis Run 11/3/2025 1:08 PM View: 2025_AWQR-Time_Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Time Series



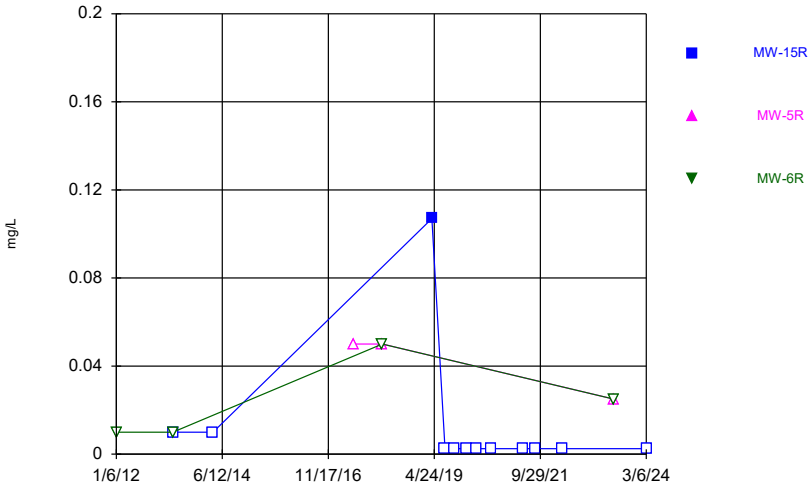
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Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Time Series



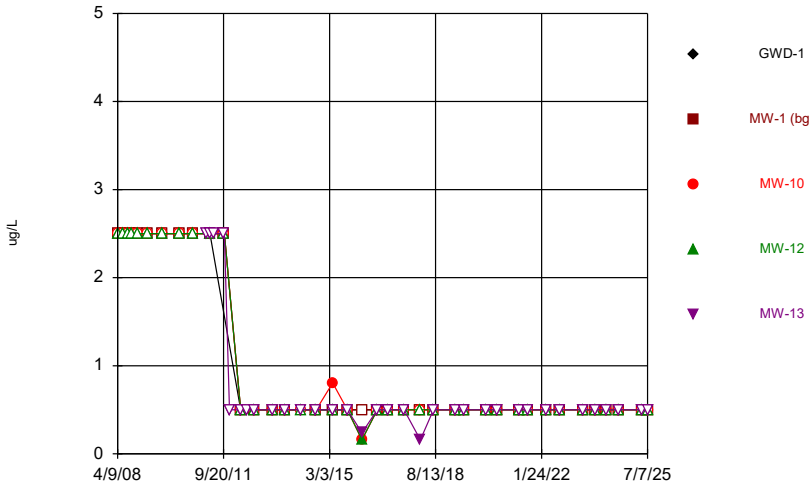
Constituent: Tin Analysis Run 11/3/2025 1:08 PM View: 2025_AWQR-Time_Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Time Series



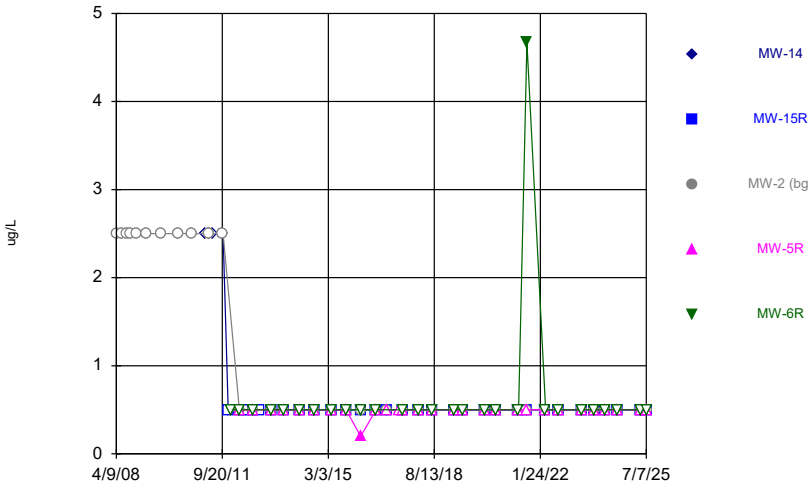
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Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Time Series



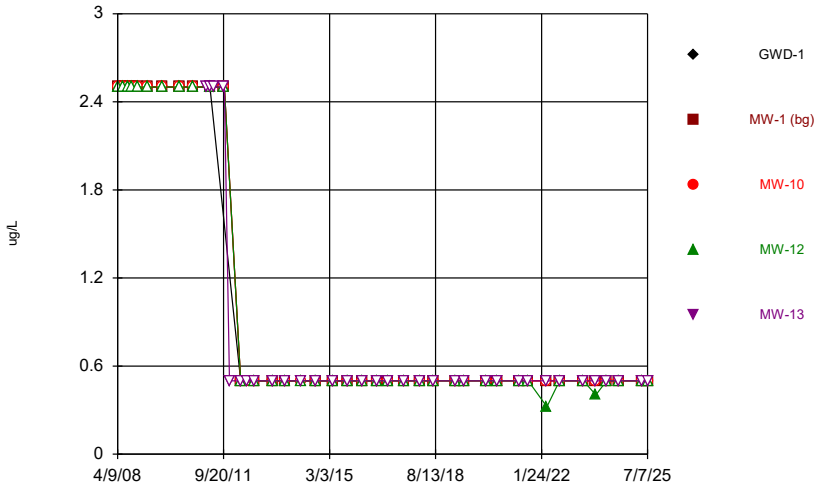
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Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Time Series



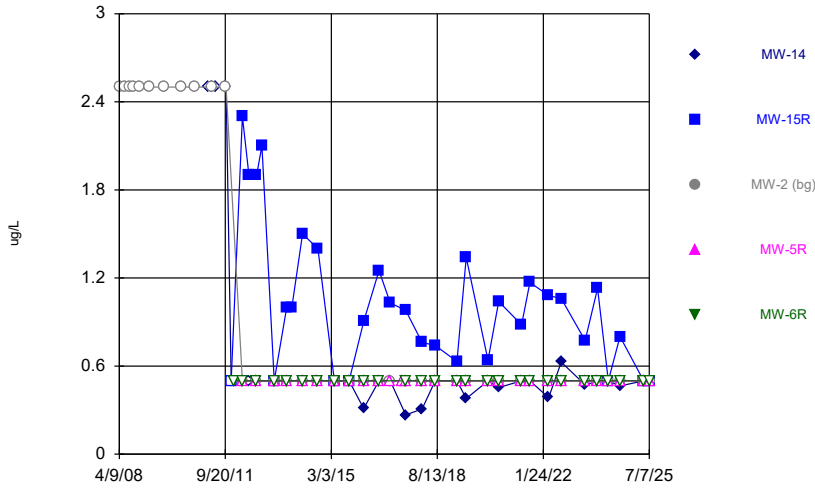
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Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Time Series



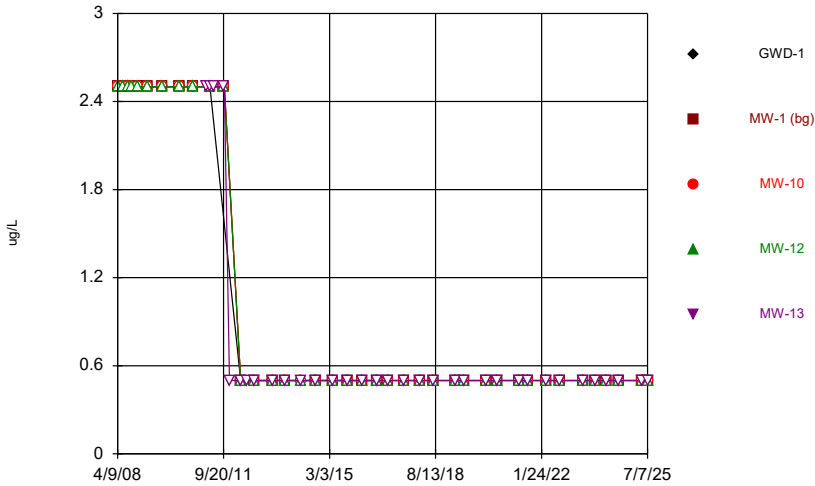
Constituent: trans-1,2-Dichloroethene Analysis Run 11/3/2025 1:08 PM View: 2025_AWQR-Time_Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Time Series



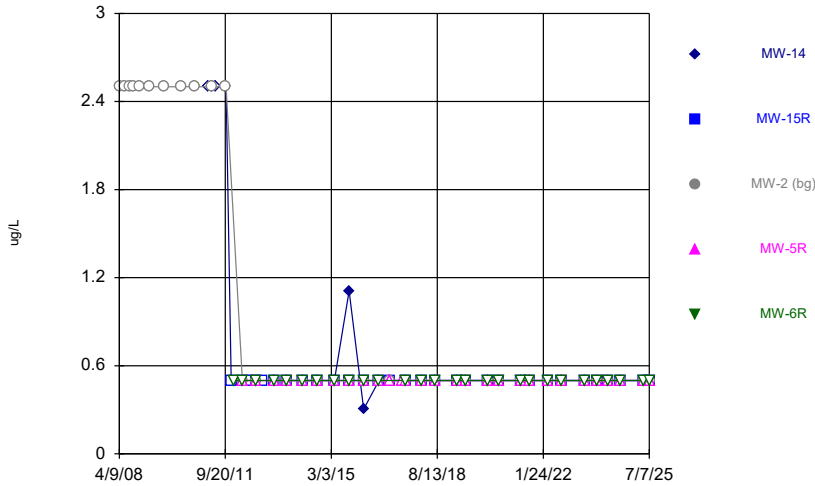
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Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Time Series



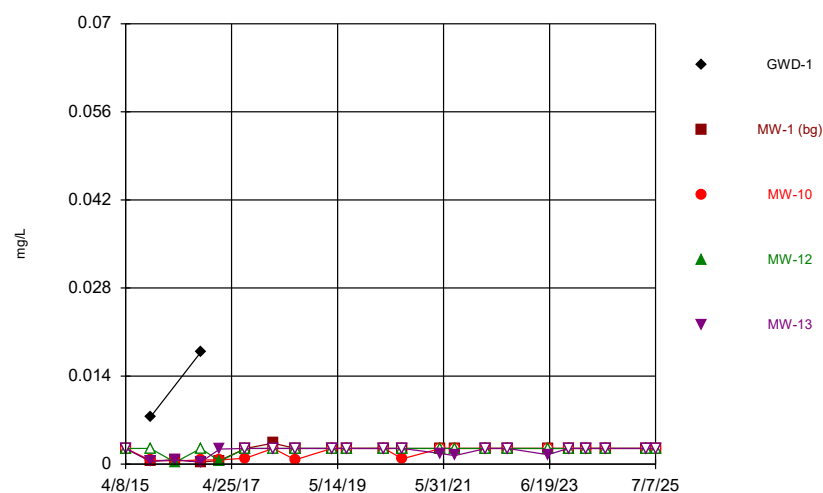
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Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Time Series

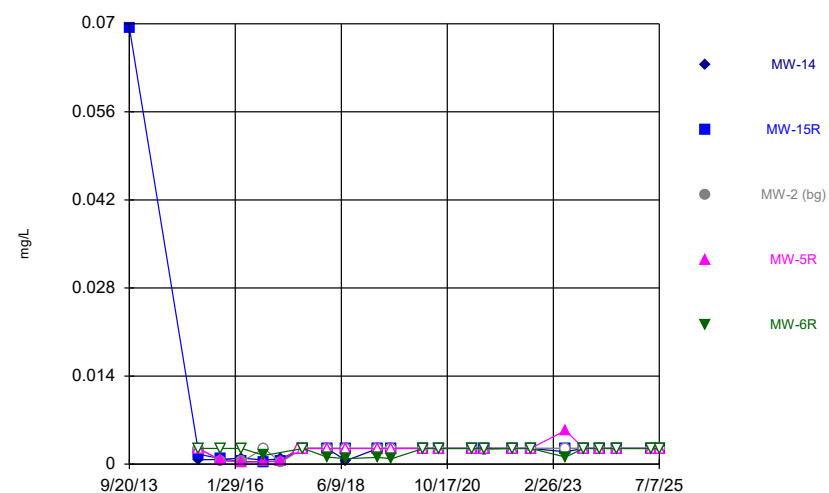


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Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

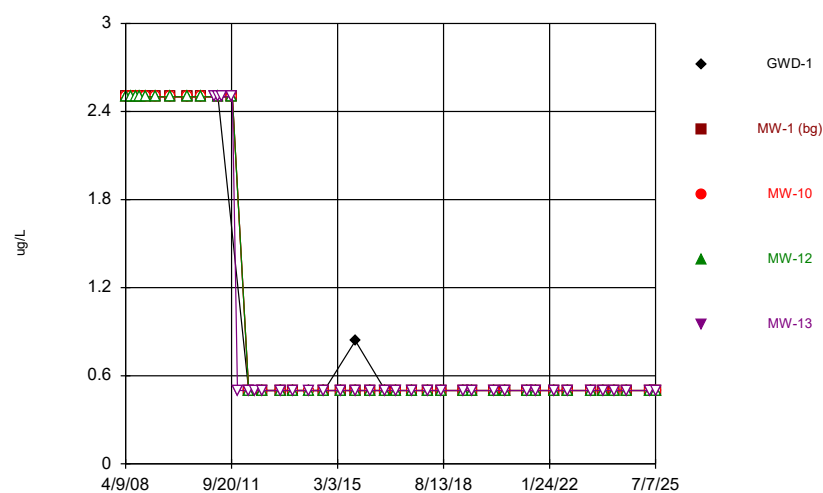
Time Series



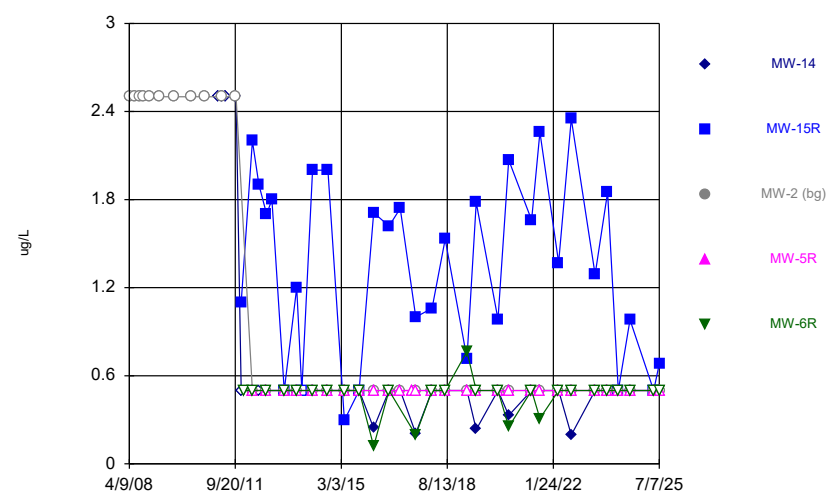
Time Series



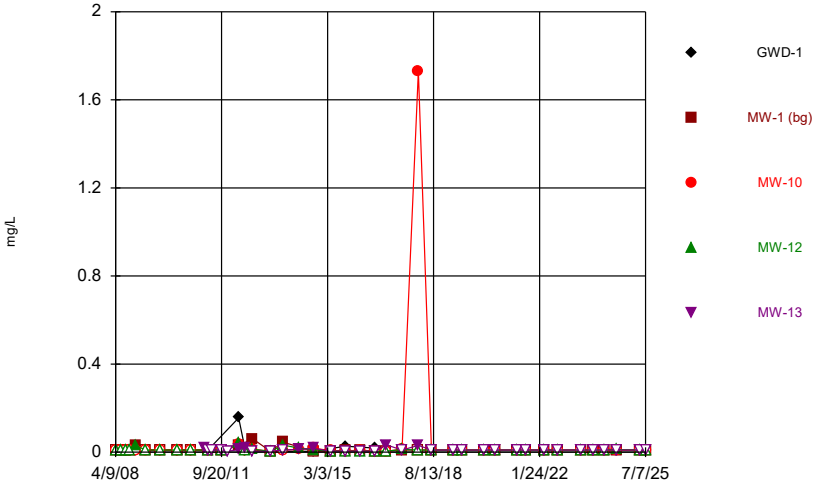
Time Series



Time Series

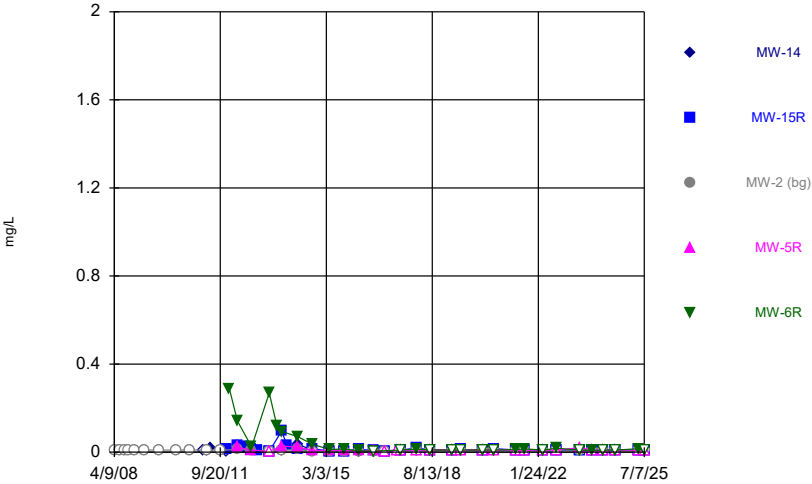


Time Series



Constituent: Zinc Analysis Run 11/3/2025 1:08 PM View: 2025_AWQR-Time_Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Time Series



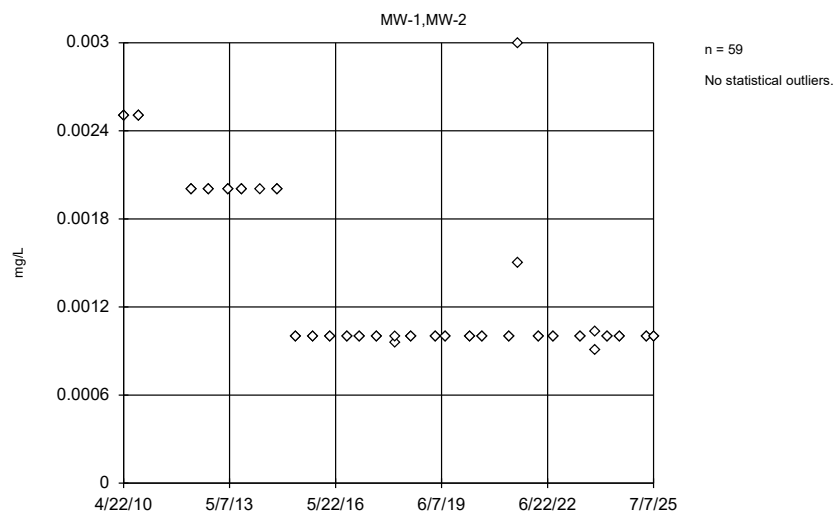
Constituent: Zinc Analysis Run 11/3/2025 1:08 PM View: 2025_AWQR-Time_Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

BG Outlier Analysis

Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master Printed 11/3/2025, 1:43 PM

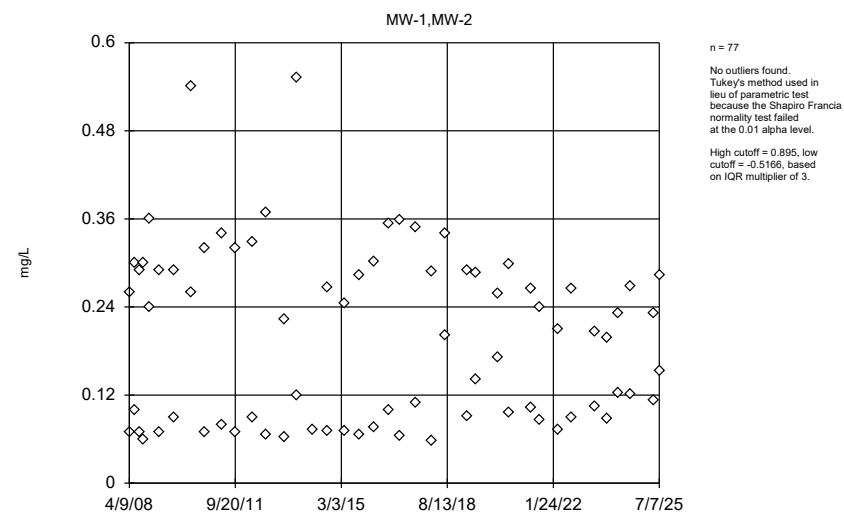
<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Arsenic (mg/L)	MW-1,MW-2	No	n/a	n/a w/combined bg	OH	NaN	59	0.001329	0.0005553	n/a	n/a
Barium (mg/L)	MW-1,MW-2	No	n/a	n/a w/combined bg	NP (nrm)/OH	NaN	77	0.1995	0.1172	unknown	ShapiroFrancia
Cadmium (mg/L)	MW-1,MW-2	Yes	0.0025,0.00141	n/a w/combined bg	OH	NaN	55	0.0002767	0.0003724	n/a	n/a
Cobalt (mg/L)	MW-1,MW-2	No	n/a	n/a w/combined bg	NP (nrm)/OH	NaN	47	0.0003682	0.0006416	unknown	ShapiroWilk
Copper (mg/L)	MW-1,MW-2	No	n/a	n/a w/combined bg	NP (nrm)/OH	NaN	60	0.003238	0.002429	unknown	ShapiroFrancia
Lead (mg/L)	MW-1,MW-2	Yes	0.05,0.04,0.04,0.037,0.0426,0.0364,0.0345	n/a w/combined bg	NP (nrm)/OH	NaN	66	0.007541	0.01242	unknown	ShapiroFrancia
Nickel (mg/L)	MW-1,MW-2	Yes	0.02,0.0112	n/a w/combined bg	OH	NaN	63	0.003304	0.002827	n/a	n/a
Selenium (mg/L)	MW-1,MW-2	No	n/a	n/a w/combined bg	NP (nrm)/OH	NaN	59	0.005258	0.002189	unknown	ShapiroFrancia
Thallium (mg/L)	MW-1,MW-2	Yes	0.00598,0.0034	n/a w/combined bg	OH	NaN	64	0.0005987	0.0007815	n/a	n/a
Vanadium (mg/L)	MW-1,MW-2	No	n/a	n/a w/combined bg	OH	NaN	44	0.002191	0.0007717	n/a	n/a
Zinc (mg/L)	MW-1,MW-2	Yes	0.0602,0.0451	n/a w/combined bg	OH	NaN	77	0.01078	0.008038	n/a	n/a

Ohio EPA 0715 Outlier Algorithm, Pooled Background



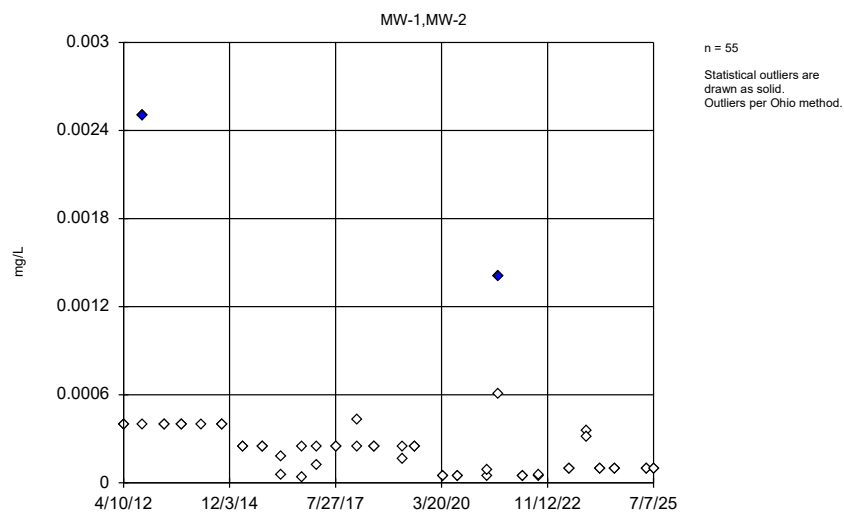
Constituent: Arsenic Analysis Run 11/3/2025 1:40 PM View: 2025_AWQR-BG_Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background



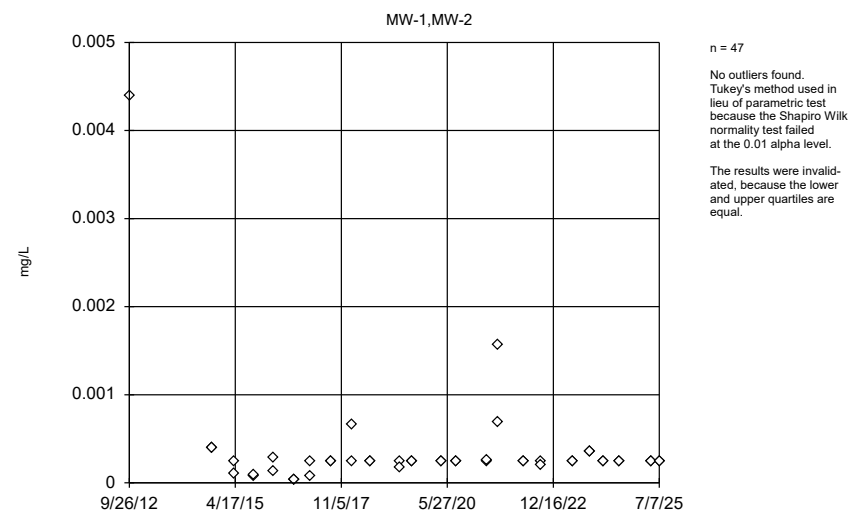
Constituent: Barium Analysis Run 11/3/2025 1:40 PM View: 2025_AWQR-BG_Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Ohio EPA 0715 Outlier Algorithm, Pooled Background



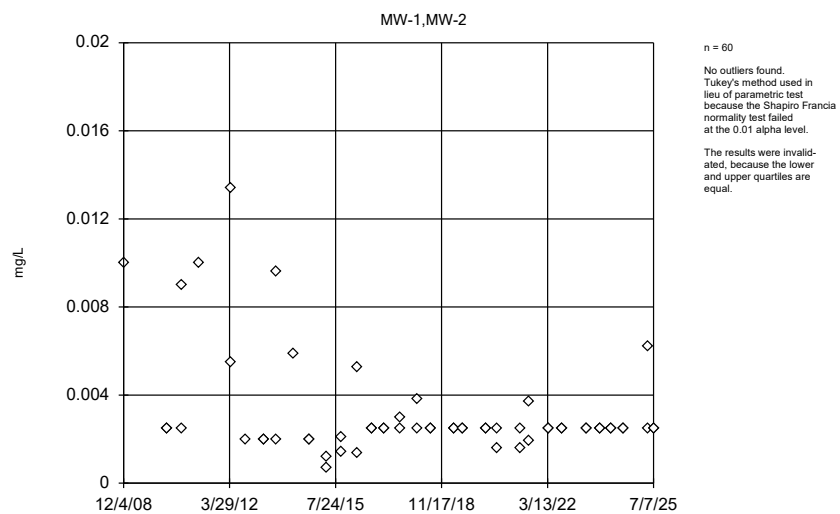
Constituent: Cadmium Analysis Run 11/3/2025 1:40 PM View: 2025_AWQR-BG_Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background



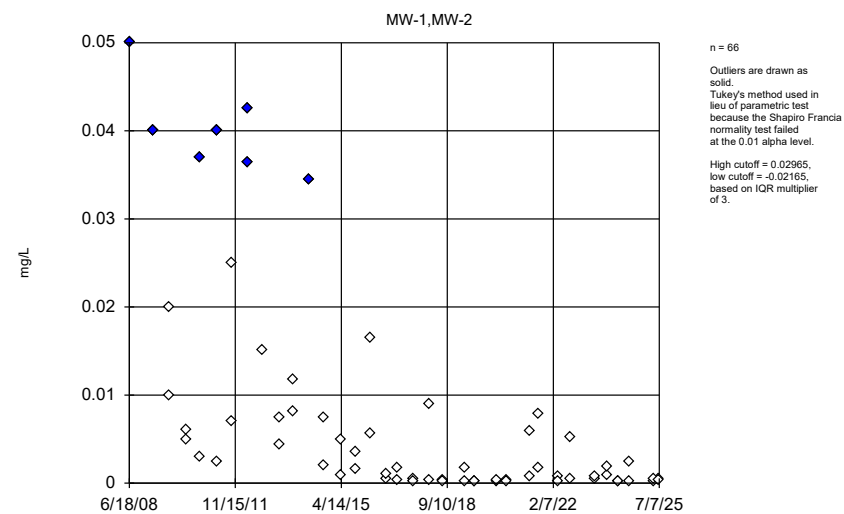
Constituent: Cobalt Analysis Run 11/3/2025 1:40 PM View: 2025_AWQR-BG_Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background



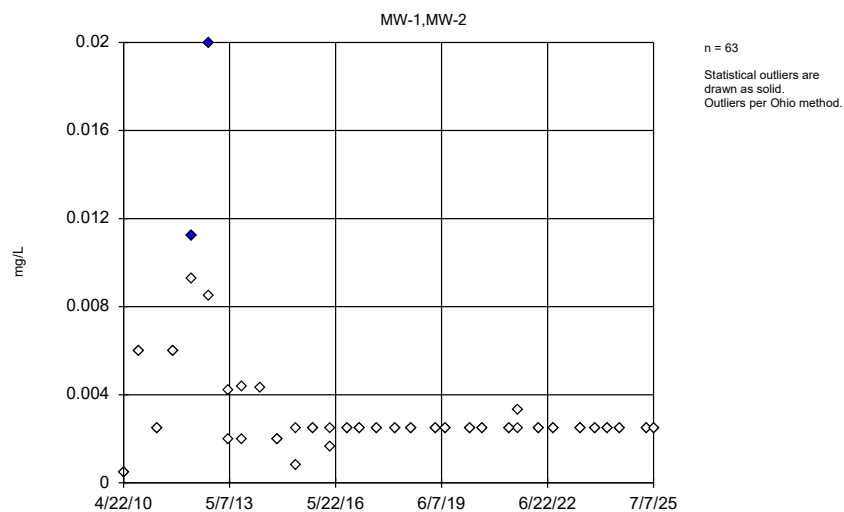
Constituent: Copper Analysis Run 11/3/2025 1:40 PM View: 2025_AWQR-BG_Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background



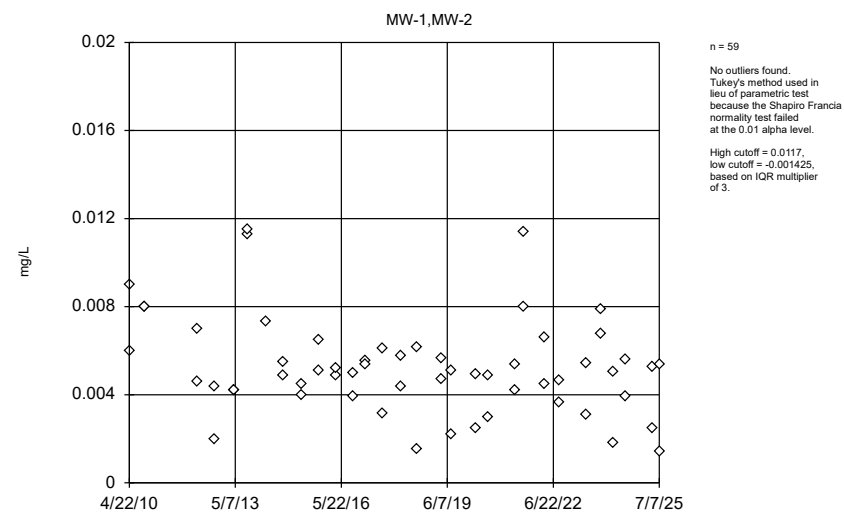
Constituent: Lead Analysis Run 11/3/2025 1:40 PM View: 2025_AWQR-BG_Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Ohio EPA 0715 Outlier Algorithm, Pooled Background



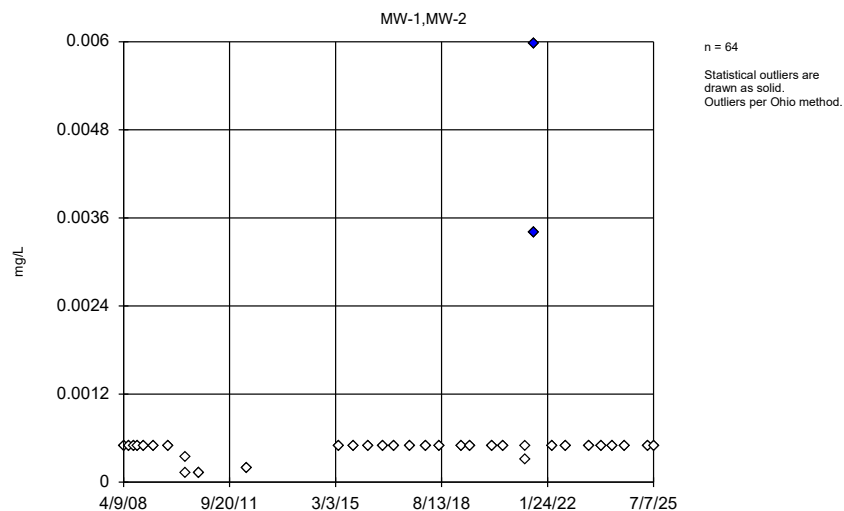
Constituent: Nickel Analysis Run 11/3/2025 1:40 PM View: 2025_AWQR-BG_Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background



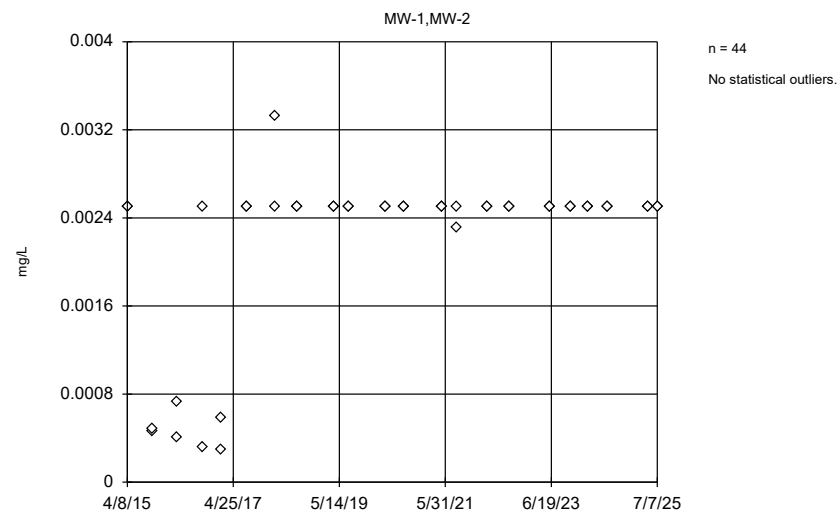
Constituent: Selenium Analysis Run 11/3/2025 1:40 PM View: 2025_AWQR-BG_Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Ohio EPA 0715 Outlier Algorithm, Pooled Background



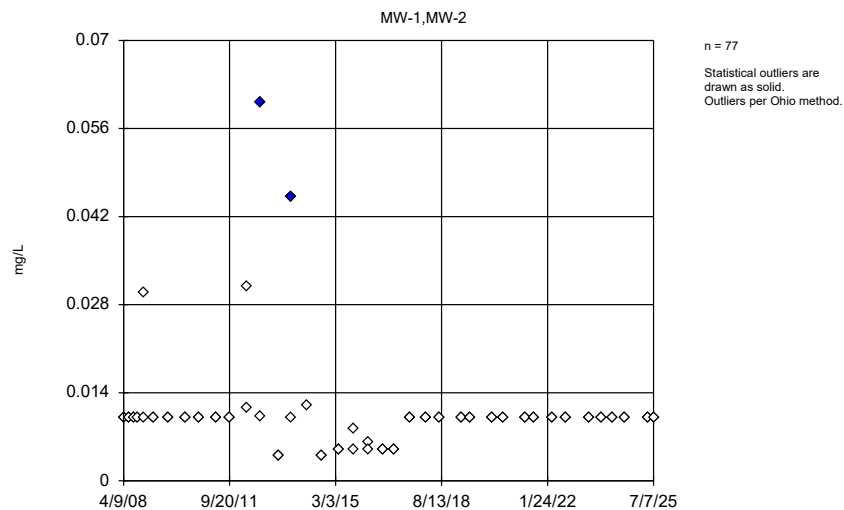
Constituent: Thallium Analysis Run 11/3/2025 1:40 PM View: 2025_AWQR-BG_Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Ohio EPA 0715 Outlier Algorithm, Pooled Background



Constituent: Vanadium Analysis Run 11/3/2025 1:41 PM View: 2025_AWQR-BG_Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Ohio EPA 0715 Outlier Algorithm, Pooled Background



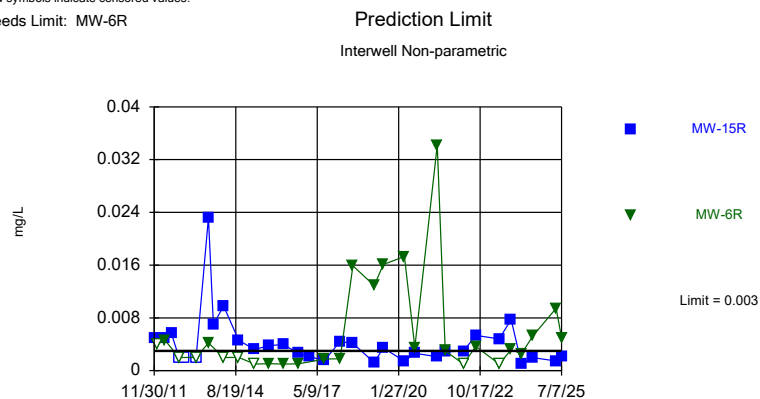
Constituent: Zinc Analysis Run 11/3/2025 1:41 PM View: 2025_AWQR-BG_Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Prediction Limit

Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master Printed 11/3/2025, 2:15 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-15R	0.003	n/a	7/7/2025	0.00213	No	59	MW-2,MW-1	91.53	n/a	0.0005422	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	MW-6R	0.003	n/a	7/7/2025	0.005	Yes	59	MW-2,MW-1	91.53	n/a	0.0005422	NP Inter (NDs) 1 of 2
Barium (mg/L)	MW-10	0.552	n/a	7/7/2025	0.227	No	77	MW-2,MW-1	0	n/a	0.0003248	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-12	0.552	n/a	7/7/2025	0.398	No	77	MW-2,MW-1	0	n/a	0.0003248	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-13	0.552	n/a	7/7/2025	0.144	No	77	MW-2,MW-1	0	n/a	0.0003248	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-14	0.552	n/a	7/7/2025	0.236	No	77	MW-2,MW-1	0	n/a	0.0003248	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-15R	0.552	n/a	7/7/2025	0.315	No	77	MW-2,MW-1	0	n/a	0.0003248	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-5R	0.552	n/a	7/7/2025	0.255	No	77	MW-2,MW-1	0	n/a	0.0003248	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-6R	0.552	n/a	7/7/2025	0.057	No	77	MW-2,MW-1	0	n/a	0.0003248	NP Inter (normality) 1 of 2
Cadmium (mg/L)	MW-14	0.0025	n/a	7/7/2025	0.000202	No	55	MW-1,MW-2	76.36	n/a	0.0006289	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	MW-13	0.0044	n/a	7/7/2025	0.00312	No	47	MW-2,MW-1	63.83	n/a	0.0008532	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	MW-14	0.0044	n/a	7/7/2025	0.000521	No	47	MW-2,MW-1	63.83	n/a	0.0008532	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	MW-15R	0.0044	n/a	7/7/2025	0.00124	No	47	MW-2,MW-1	63.83	n/a	0.0008532	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	MW-5R	0.0044	n/a	7/7/2025	0.000927	No	47	MW-2,MW-1	63.83	n/a	0.0008532	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	MW-6R	0.0044	n/a	7/7/2025	0.00423	No	47	MW-2,MW-1	63.83	n/a	0.0008532	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-12	0.05	n/a	7/7/2025	0.000759J	No	66	MW-1,MW-2	18.18	n/a	0.0004401	NP Inter (normality) 1 of 2
Nickel (mg/L)	MW-10	0.02	n/a	7/7/2025	0.00658	No	63	MW-1,MW-2	76.19	n/a	0.0004803	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-13	0.02	n/a	7/7/2025	0.0144	No	63	MW-1,MW-2	76.19	n/a	0.0004803	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-14	0.02	n/a	7/7/2025	0.0192	No	63	MW-1,MW-2	76.19	n/a	0.0004803	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-15R	0.02	n/a	7/7/2025	0.014	No	63	MW-1,MW-2	76.19	n/a	0.0004803	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-5R	0.02	n/a	7/7/2025	0.00854	No	63	MW-1,MW-2	76.19	n/a	0.0004803	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-6R	0.02	n/a	7/7/2025	0.0189	No	63	MW-1,MW-2	76.19	n/a	0.0004803	NP Inter (NDs) 1 of 2

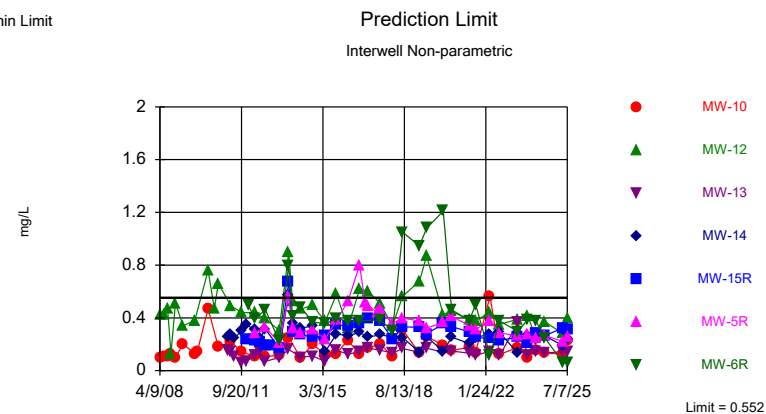
Exceeds Limit: MW-6R



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 59 background values. 91.53% NDs. Annual per-constituent alpha = 0.007564. Individual comparison alpha = 0.0005422 (1 of 2). Comparing 2 points to limit. Assumes 5 future values.

Constituent: Arsenic Analysis Run 11/3/2025 2:12 PM View: 2025_AWQR-DMAM_Interwell_PL
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

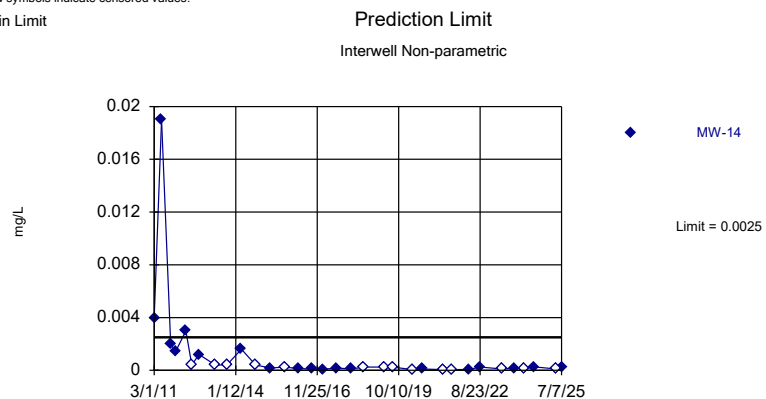
Within Limit



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 77 background values. Annual per-constituent alpha = 0.004538. Individual comparison alpha = 0.0003248 (1 of 2). Comparing 7 points to limit.

Constituent: Barium Analysis Run 11/3/2025 2:12 PM View: 2025_AWQR-DMAM_Interwell_PL
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

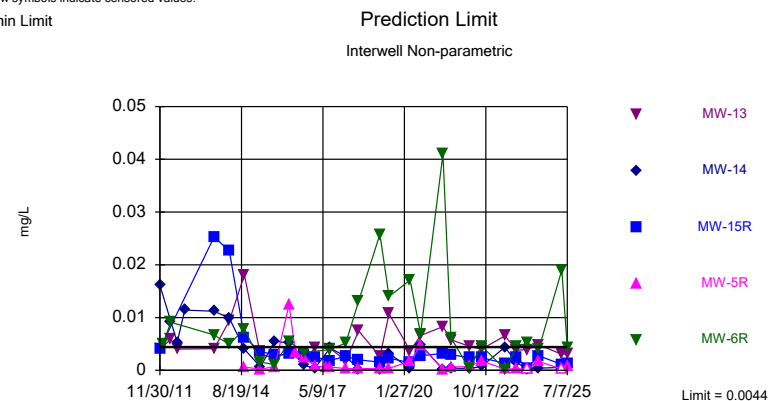
Within Limit



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 55 background values. 76.36% NDs. Annual per-constituent alpha = 0.008769. Individual comparison alpha = 0.0006289 (1 of 2). Assumes 6 future values.

Constituent: Cadmium Analysis Run 11/3/2025 2:12 PM View: 2025_AWQR-DMAM_Interwell_PL
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Within Limit

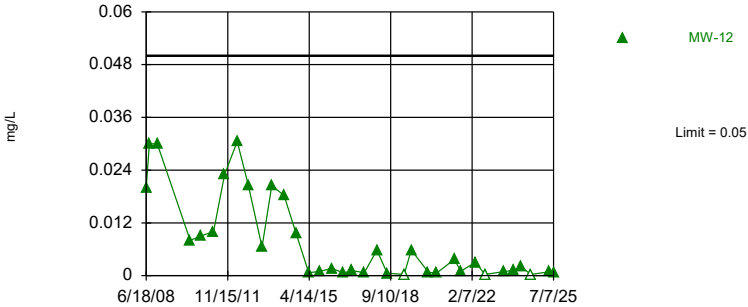


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 47 background values. 63.83% NDs. Annual per-constituent alpha = 0.01188. Individual comparison alpha = 0.0008532 (1 of 2). Comparing 5 points to limit. Assumes 2 future values.

Constituent: Cobalt Analysis Run 11/3/2025 2:12 PM View: 2025_AWQR-DMAM_Interwell_PL
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Within Limit

Prediction Limit
Interwell Non-parametric

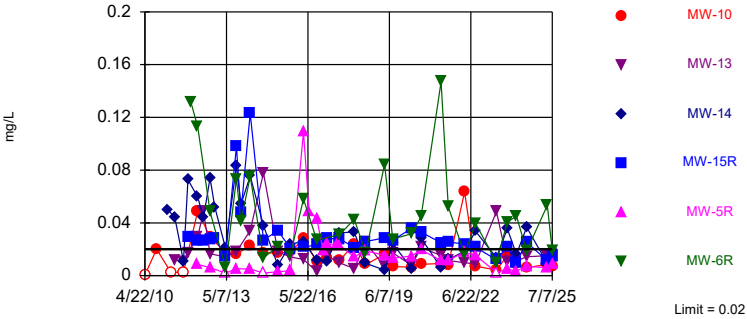


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 66 background values. 18.18% NDs. Annual per-constituent alpha = 0.006144. Individual comparison alpha = 0.0004401 (1 of 2). Assumes 6 future values.

Constituent: Lead Analysis Run 11/3/2025 2:12 PM View: 2025_AWQR-DMAM_Interwell_PL
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Within Limit

Prediction Limit
Interwell Non-parametric



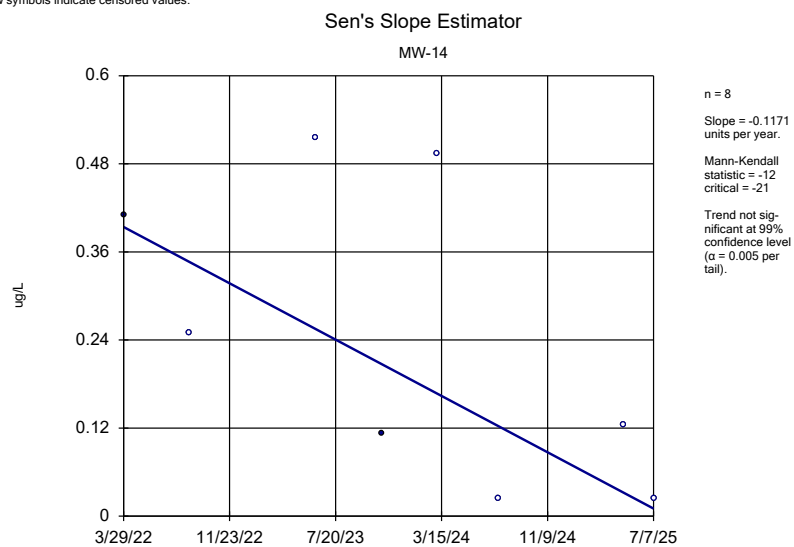
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 63 background values. 76.19% NDs. Annual per-constituent alpha = 0.006703. Individual comparison alpha = 0.0004803 (1 of 2). Comparing 6 points to limit. Assumes 1 future value.

Constituent: Nickel Analysis Run 11/3/2025 2:12 PM View: 2025_AWQR-DMAM_Interwell_PL
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

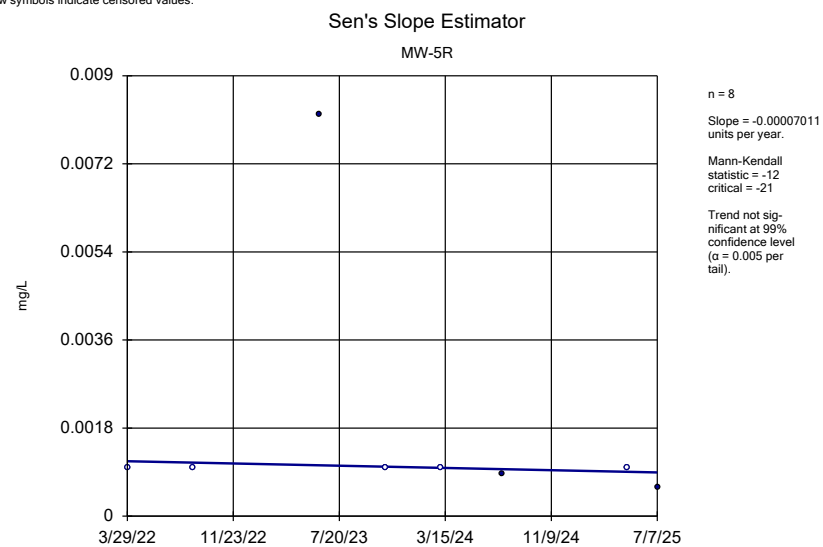
Trend Test

Sac County Sanitary Landfill Client: SCS Engineers Data: SACSW_AM_2025_AWQR Printed 11/4/2025, 8:14 AM

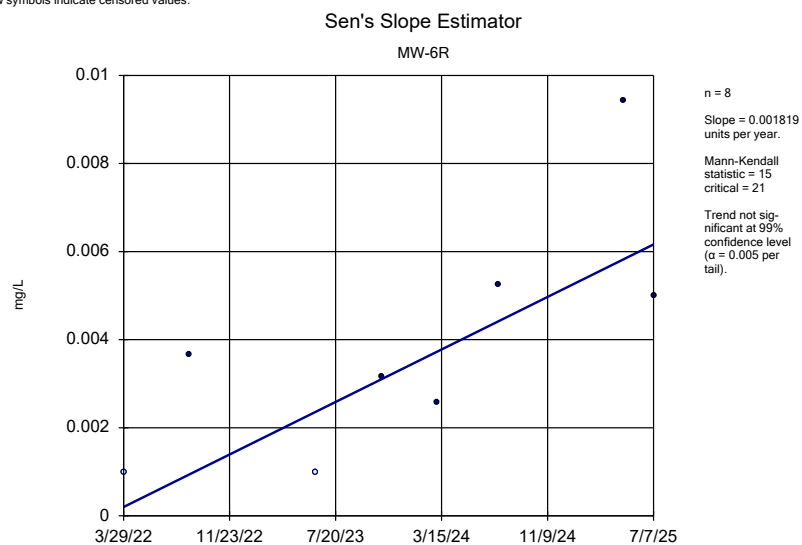
<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
2,4,5-TP [Silvex] [2C] (ug/L)	MW-14	-0.1171	-12	-21	No	8	75	0.01	NP
Arsenic (mg/L)	MW-5R	-0.00007011	-12	-21	No	8	62.5	0.01	NP
Arsenic (mg/L)	MW-6R	0.001819	15	21	No	8	25	0.01	NP
Arsenic (mg/L)	MW-10	0	-7	-21	No	8	87.5	0.01	NP
Arsenic (mg/L)	MW-13	-0.0005868	-10	-21	No	8	0	0.01	NP
Arsenic (mg/L)	MW-14	0	-7	-21	No	8	75	0.01	NP
Arsenic (mg/L)	MW-15R	-0.0006759	-8	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-5R	-0.02321	-18	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-6R	-0.05371	-10	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-10	-0.01079	-2	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-12	-0.01589	-6	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-13	0.0005155	1	21	No	8	0	0.01	NP
Barium (mg/L)	MW-14	-0.01575	-10	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-15R	0.0281	16	21	No	8	0	0.01	NP
Benzene (ug/L)	MW-6R	0	-7	-21	No	8	75	0.01	NP
Benzene (ug/L)	MW-14	-0.1104	-8	-21	No	8	50	0.01	NP
Cadmium (mg/L)	MW-6R	0.000003528	10	21	No	8	50	0.01	NP
Cadmium (mg/L)	MW-14	0.00001614	7	21	No	8	37.5	0.01	NP
Cadmium (mg/L)	MW-15R	0.00001252	13	21	No	8	50	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-6R	0.01728	8	21	No	8	50	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-12	-0.3217	-11	-21	No	8	37.5	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-14	-2.079	-12	-21	No	8	0	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-15R	-2.312	-10	-21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-5R	-0.00001167	-5	-21	No	8	25	0.01	NP
Cobalt (mg/L)	MW-6R	0.001736	8	21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-10	0	-7	-21	No	8	87.5	0.01	NP
Cobalt (mg/L)	MW-13	-0.0004234	-12	-21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-14	-0.00006156	-2	-21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-15R	-0.0002398	-10	-21	No	8	0	0.01	NP
Copper (mg/L)	MW-6R	0.00032	7	21	No	8	25	0.01	NP
Lead (mg/L)	MW-5R	-0.00004537	-8	-21	No	8	50	0.01	NP
Lead (mg/L)	MW-6R	0.00000809	0	21	No	8	12.5	0.01	NP
Lead (mg/L)	MW-10	0	1	21	No	8	37.5	0.01	NP
Lead (mg/L)	MW-12	-0.0002157	-7	-21	No	8	25	0.01	NP
Lead (mg/L)	MW-15R	0	1	21	No	8	75	0.01	NP
Nickel (mg/L)	MW-5R	-0.001966	-2	-21	No	8	12.5	0.01	NP
Nickel (mg/L)	MW-6R	0.003847	10	21	No	8	0	0.01	NP
Nickel (mg/L)	MW-10	-0.002864	-8	-21	No	8	0	0.01	NP
Nickel (mg/L)	MW-12	-0.0009478	-10	-21	No	8	50	0.01	NP
Nickel (mg/L)	MW-13	0.001547	14	21	No	8	0	0.01	NP
Nickel (mg/L)	MW-14	-0.0005681	0	21	No	8	0	0.01	NP
Nickel (mg/L)	MW-15R	-0.002783	-6	-21	No	8	0	0.01	NP
Phenol (ug/L)	MW-10	0.2122	9	21	No	8	87.5	0.01	NP
Phenol (ug/L)	MW-12	0.2116	16	21	No	8	87.5	0.01	NP
Selenium (mg/L)	MW-5R	0	-3	-21	No	8	87.5	0.01	NP
Thallium (mg/L)	MW-5R	0	-3	-21	No	8	87.5	0.01	NP
trans-1,2-Dichloroethene (ug/L)	MW-15R	-0.1823	-15	-21	No	8	37.5	0.01	NP
Vanadium (mg/L)	MW-5R	0	-3	-21	No	8	87.5	0.01	NP
Vinyl Chloride (ug/L)	MW-15R	-0.3648	-15	-21	No	8	25	0.01	NP



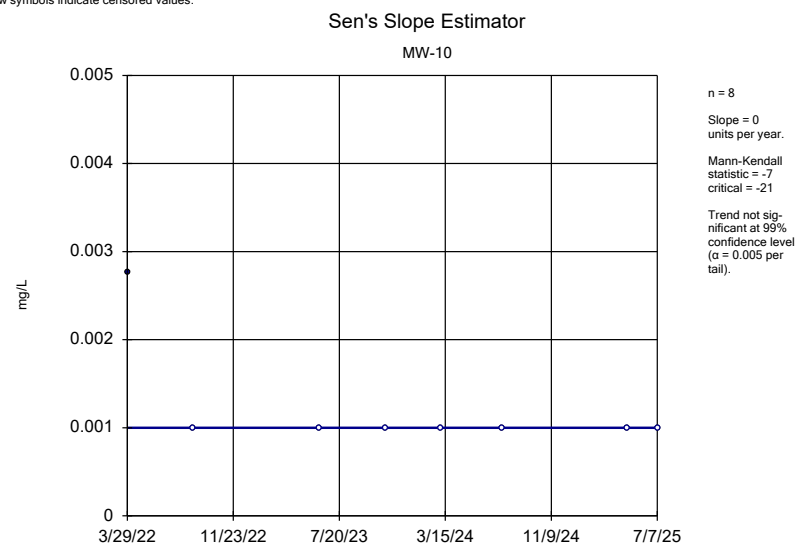
Constituent: 2,4,5-TP [Silvex] [2C] Analysis Run 11/4/2025 8:11 AM View: 2025_AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SACS_W_AM_2025_AWQR



Constituent: Arsenic Analysis Run 11/4/2025 8:11 AM View: 2025_AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SACS_W_AM_2025_AWQR



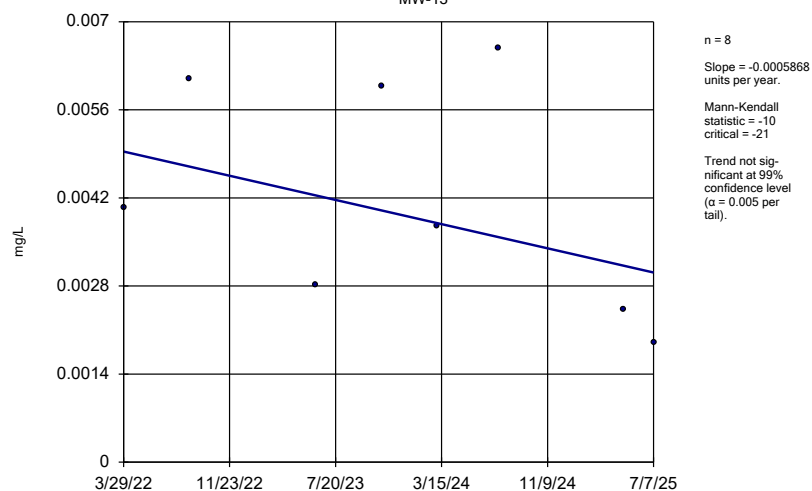
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Sac County Sanitary Landfill Client: SCS Engineers Data: SACS_W_AM_2025_AWQR



Constituent: Arsenic Analysis Run 11/4/2025 8:11 AM View: 2025_AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SACS_W_AM_2025_AWQR

Sen's Slope Estimator

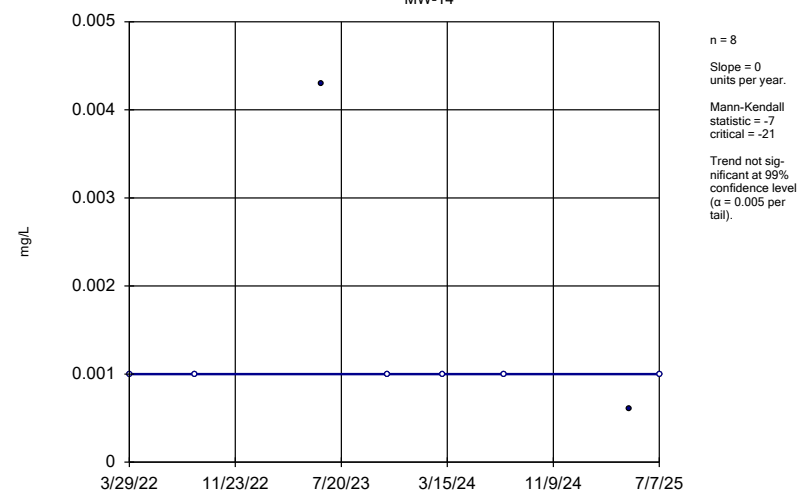
MW-13



Constituent: Arsenic Analysis Run 11/4/2025 8:11 AM View: 2025_AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SACS_W_AM_2025_AWQR

Sen's Slope Estimator

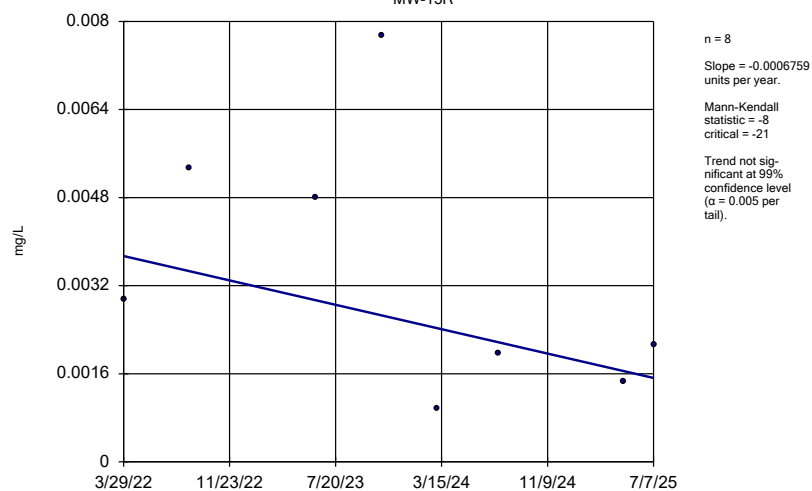
MW-14



Constituent: Arsenic Analysis Run 11/4/2025 8:11 AM View: 2025_AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SACS_W_AM_2025_AWQR

Sen's Slope Estimator

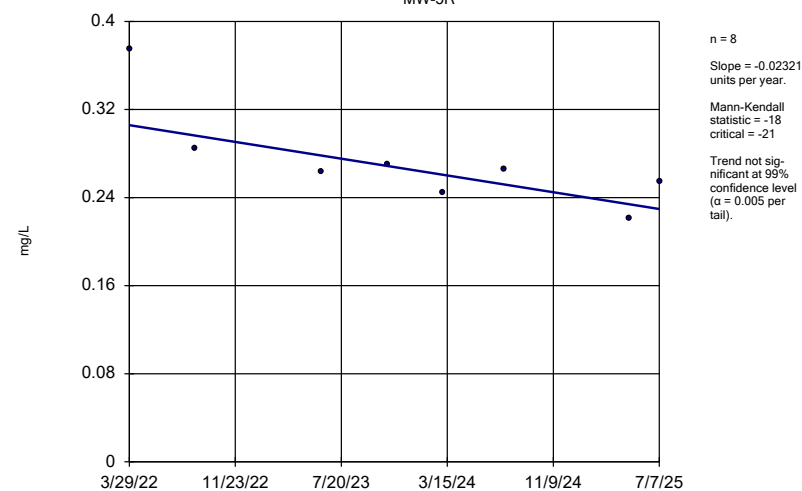
MW-15R



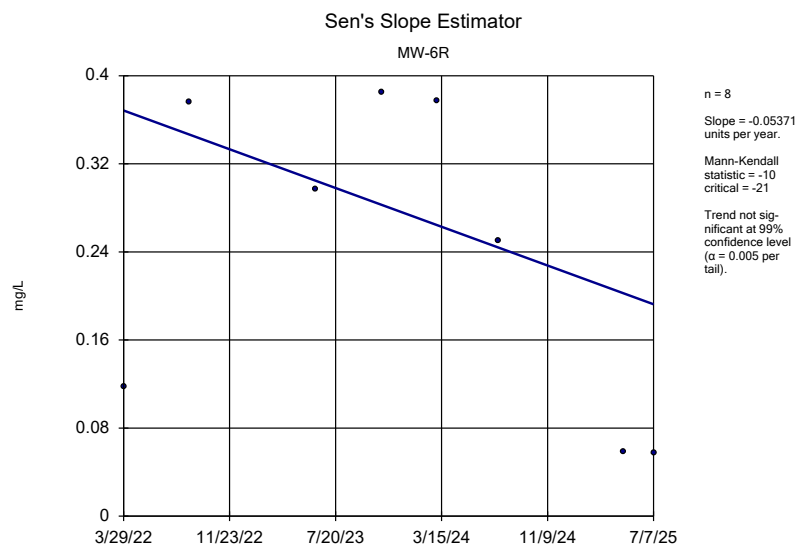
Constituent: Arsenic Analysis Run 11/4/2025 8:11 AM View: 2025_AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SACS_W_AM_2025_AWQR

Sen's Slope Estimator

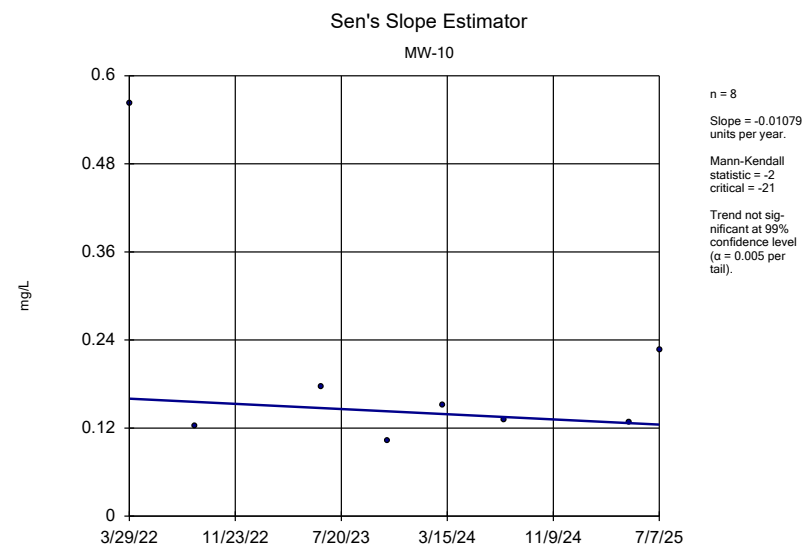
MW-5R



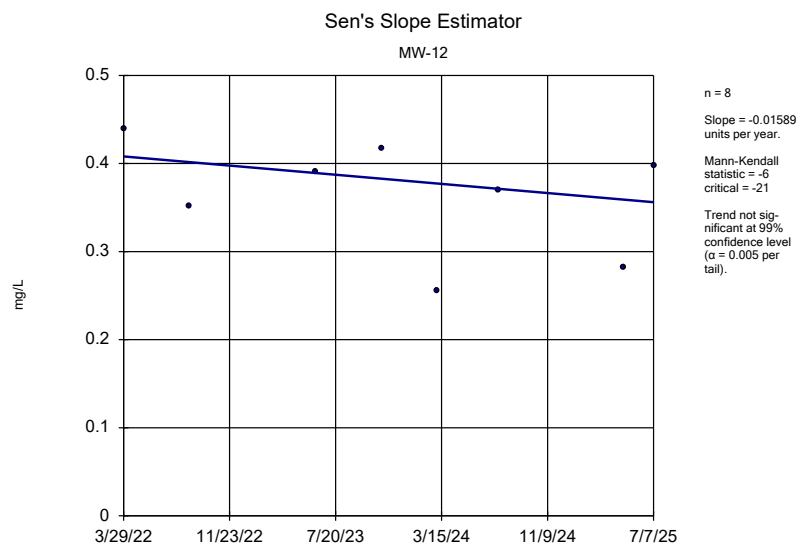
Constituent: Barium Analysis Run 11/4/2025 8:11 AM View: 2025_AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SACS_W_AM_2025_AWQR



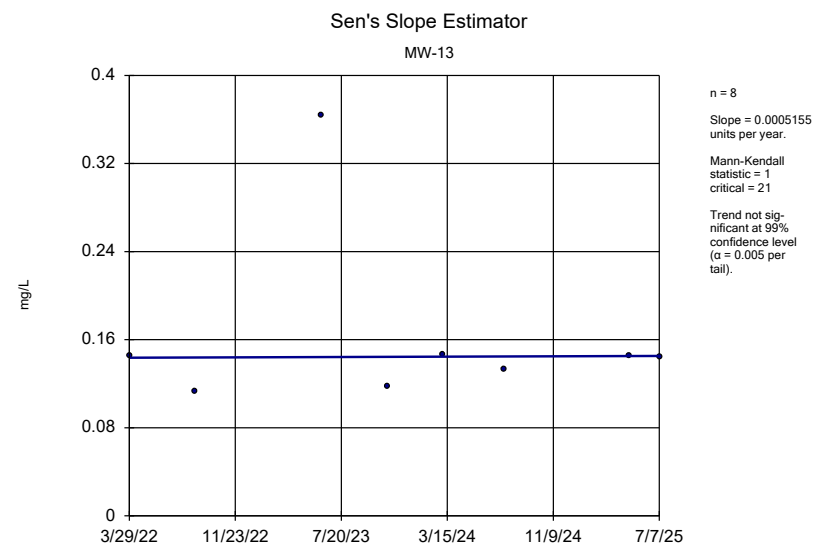
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Sac County Sanitary Landfill Client: SCS Engineers Data: SACS_W_AM_2025_AWQR



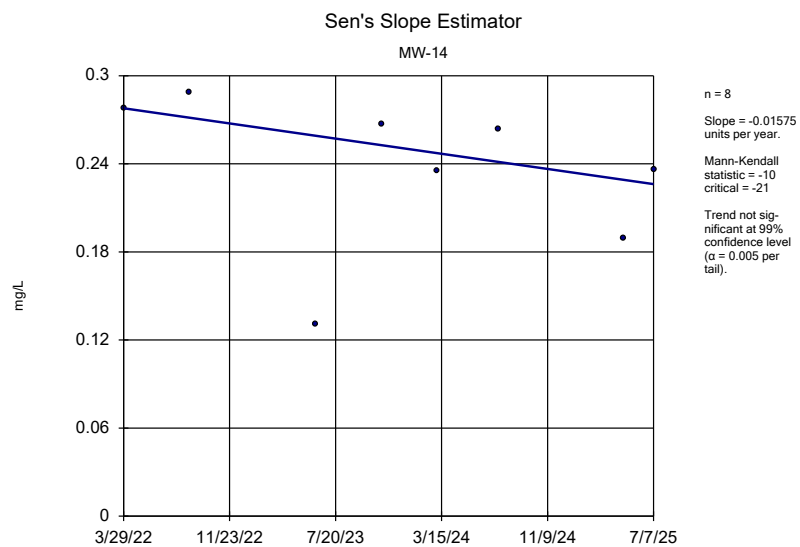
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Sac County Sanitary Landfill Client: SCS Engineers Data: SACS_W_AM_2025_AWQR



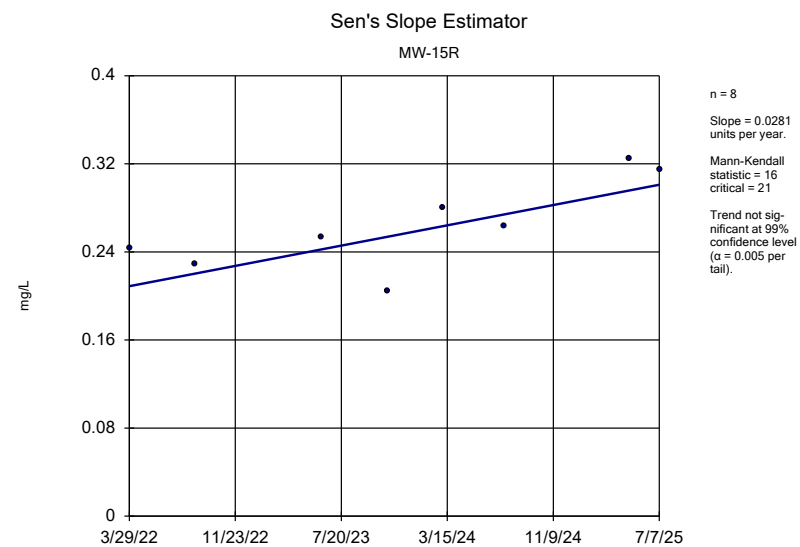
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Sac County Sanitary Landfill Client: SCS Engineers Data: SACS_W_AM_2025_AWQR



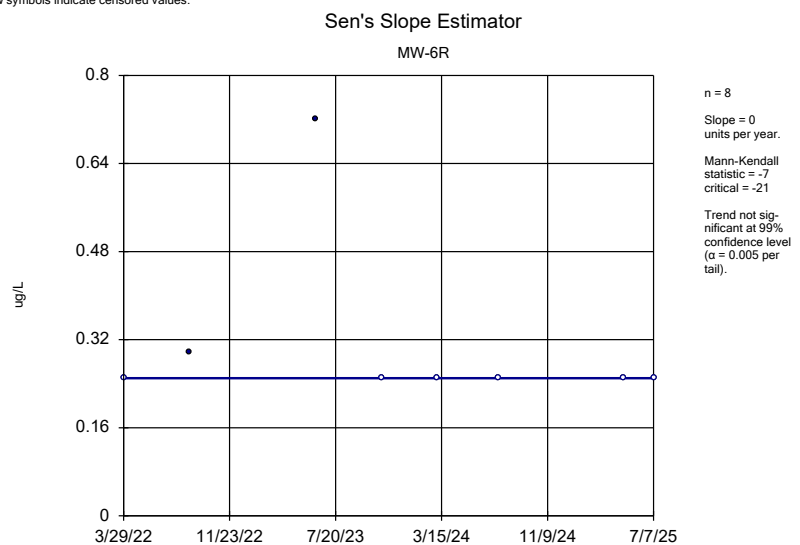
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Sac County Sanitary Landfill Client: SCS Engineers Data: SACS_W_AM_2025_AWQR



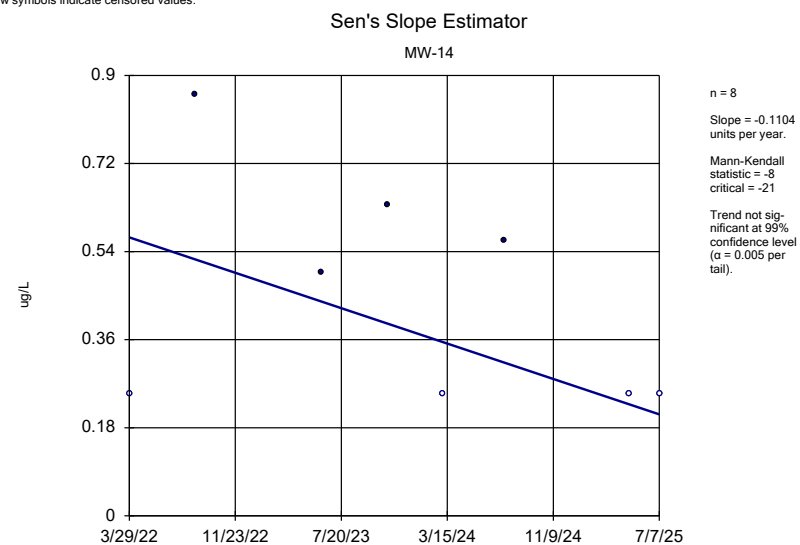
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Sac County Sanitary Landfill Client: SCS Engineers Data: SACS_SW_AM_2025_AWQR



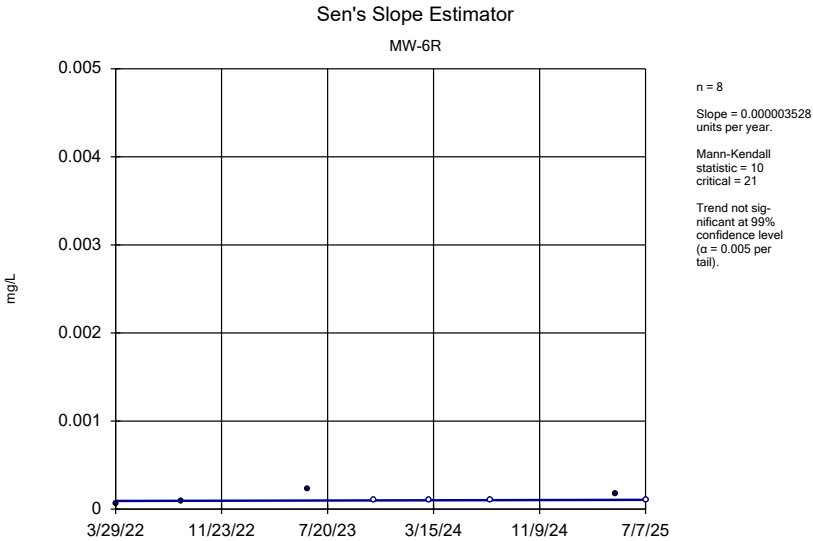
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Sac County Sanitary Landfill Client: SCS Engineers Data: SACS_SW_AM_2025_AWQR



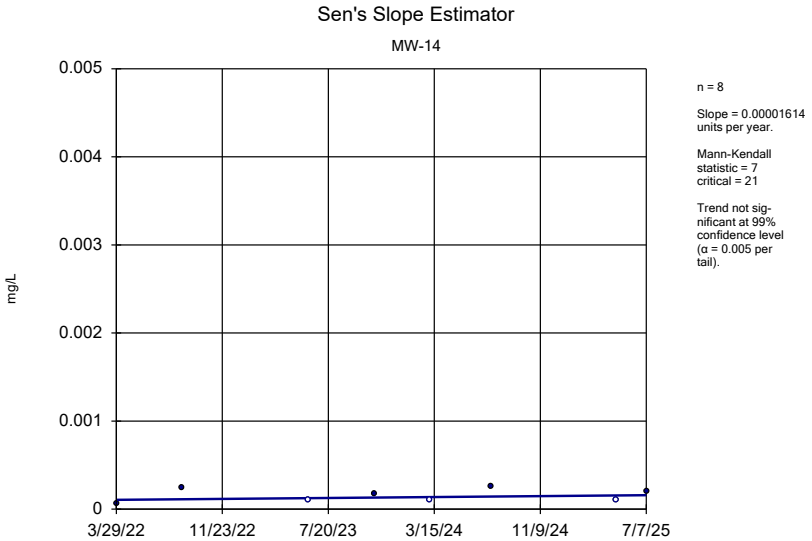
Constituent: Benzene Analysis Run 11/4/2025 8:11 AM View: 2025_AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SACS_SW_AM_2025_AWQR



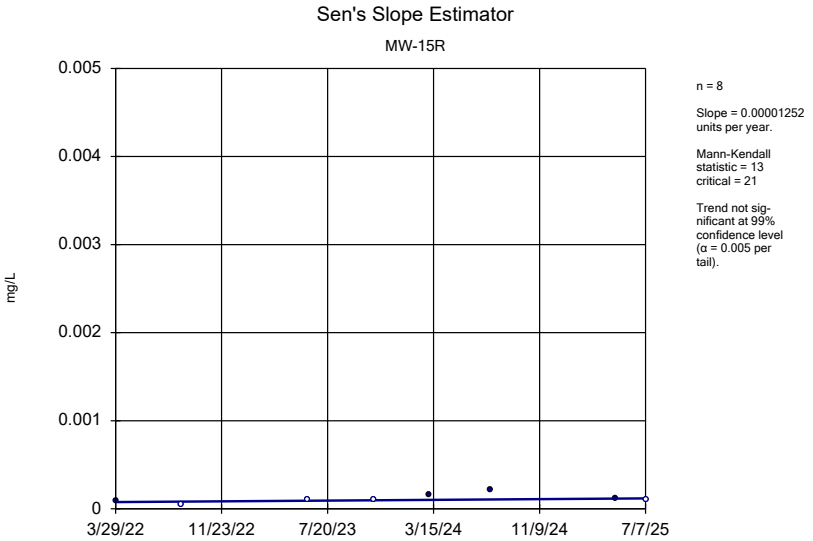
Constituent: Benzene Analysis Run 11/4/2025 8:11 AM View: 2025_AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SACS_SW_AM_2025_AWQR



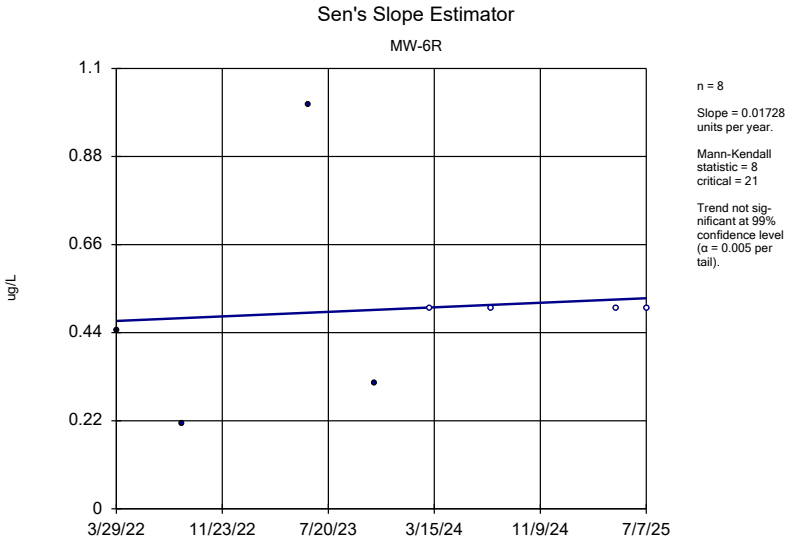
Constituent: Cadmium Analysis Run 11/4/2025 8:11 AM View: 2025_AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SACS_W_AM_2025_AWQR



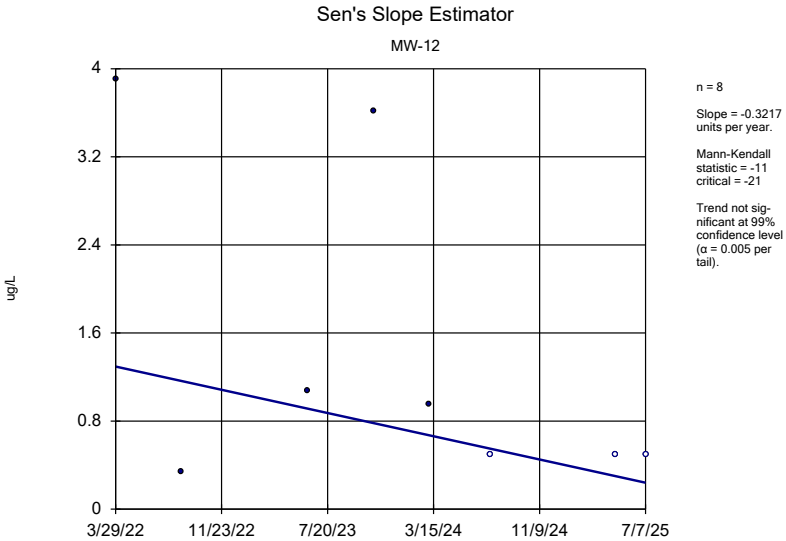
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Sac County Sanitary Landfill Client: SCS Engineers Data: SACS_W_AM_2025_AWQR



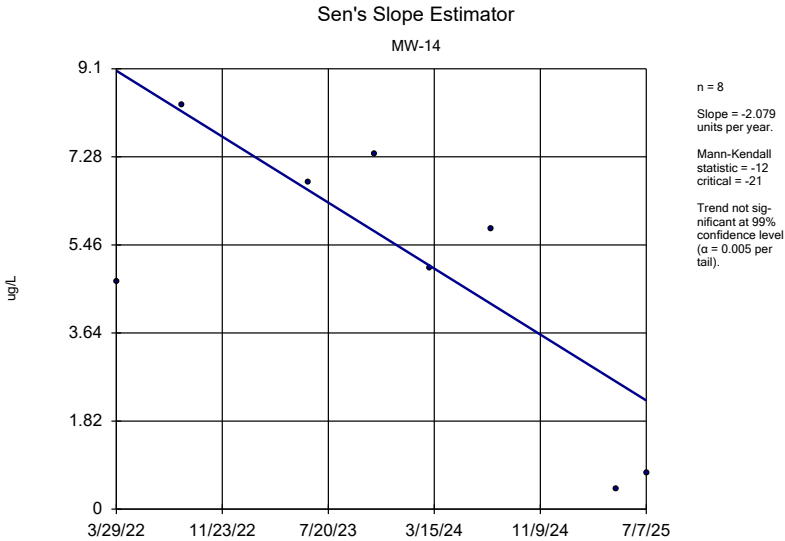
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Sac County Sanitary Landfill Client: SCS Engineers Data: SACS_W_AM_2025_AWQR



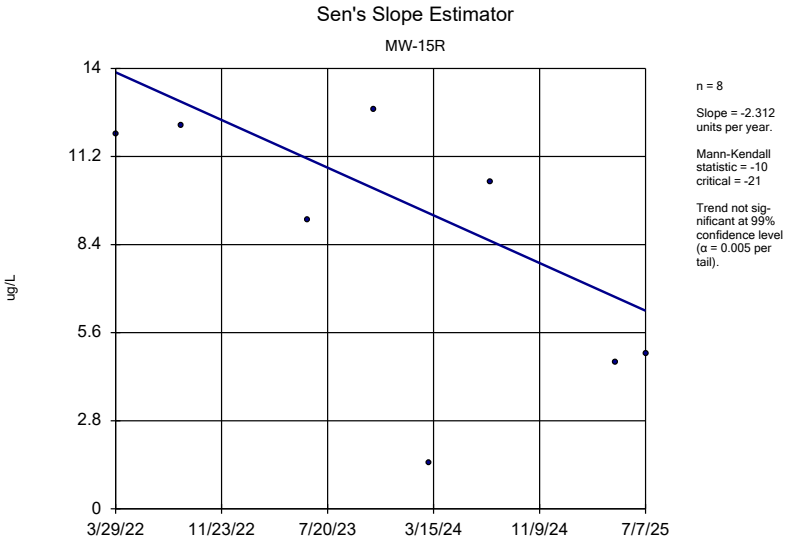
Constituent: cis-1,2-Dichloroethene Analysis Run 11/4/2025 8:11 AM View: 2025_AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SACS_W_AM_2025_AWQR



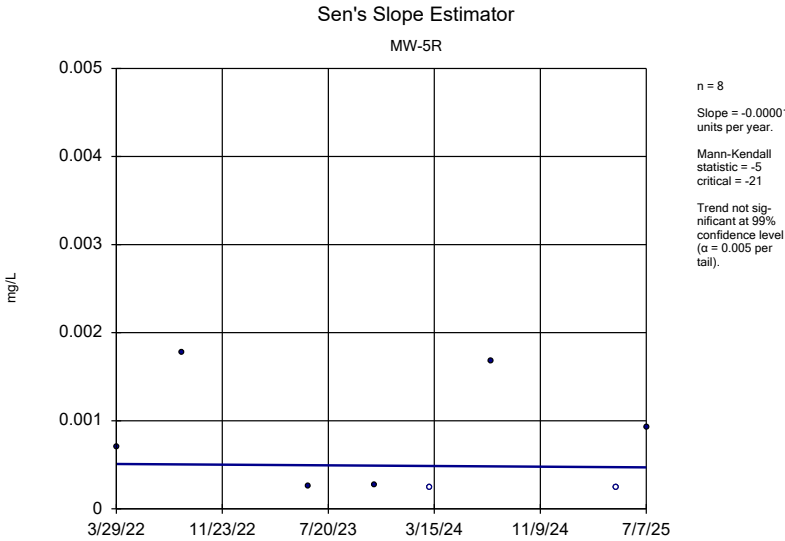
Constituent: cis-1,2-Dichloroethene Analysis Run 11/4/2025 8:11 AM View: 2025_AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SACSWM_AM_2025_AWQR



Constituent: cis-1,2-Dichloroethene Analysis Run 11/4/2025 8:11 AM View: 2025_AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SACSWM_AM_2025_AWQR



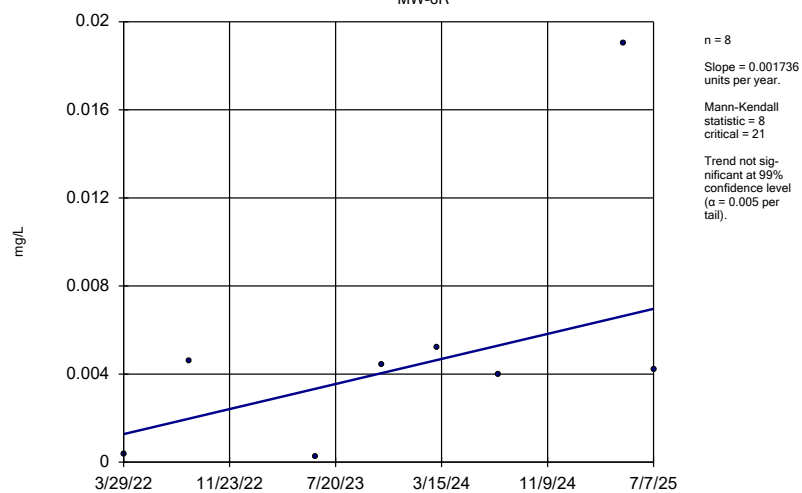
Constituent: cis-1,2-Dichloroethene Analysis Run 11/4/2025 8:11 AM View: 2025_AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SACSWM_AM_2025_AWQR



Constituent: Cobalt Analysis Run 11/4/2025 8:11 AM View: 2025_AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SACSWM_AM_2025_AWQR

Sen's Slope Estimator

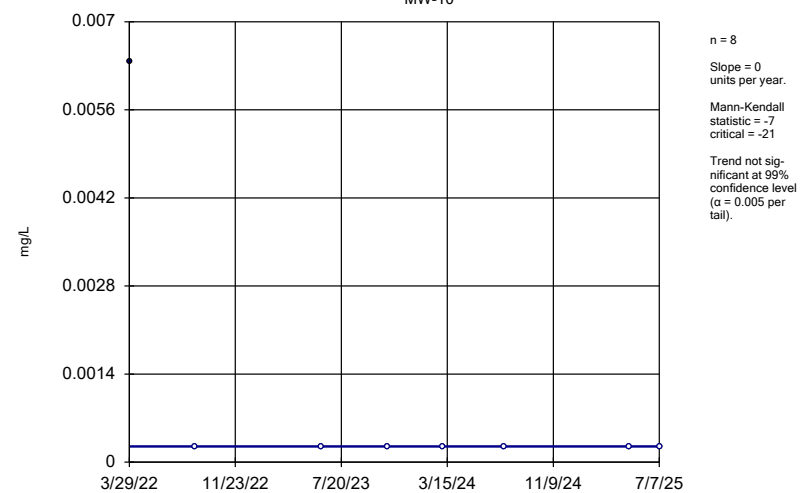
MW-6R



Constituent: Cobalt Analysis Run 11/4/2025 8:11 AM View: 2025_AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SACSWM_AM_2025_AWQR

Sen's Slope Estimator

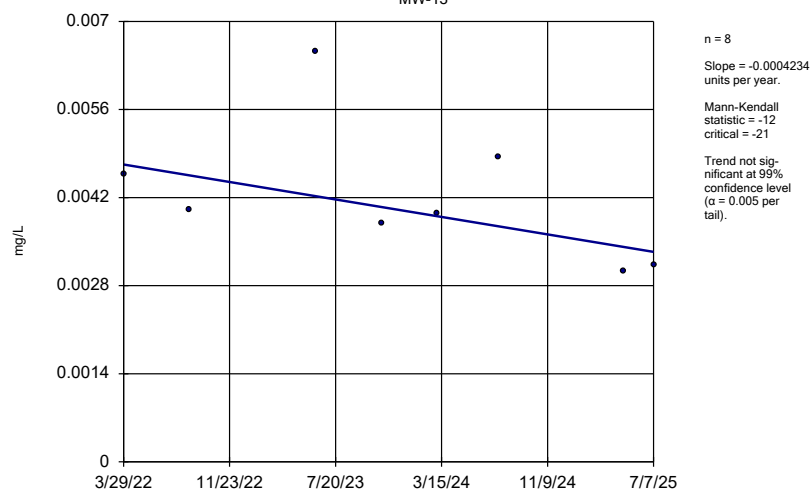
MW-10



Constituent: Cobalt Analysis Run 11/4/2025 8:11 AM View: 2025_AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SACSWM_AM_2025_AWQR

Sen's Slope Estimator

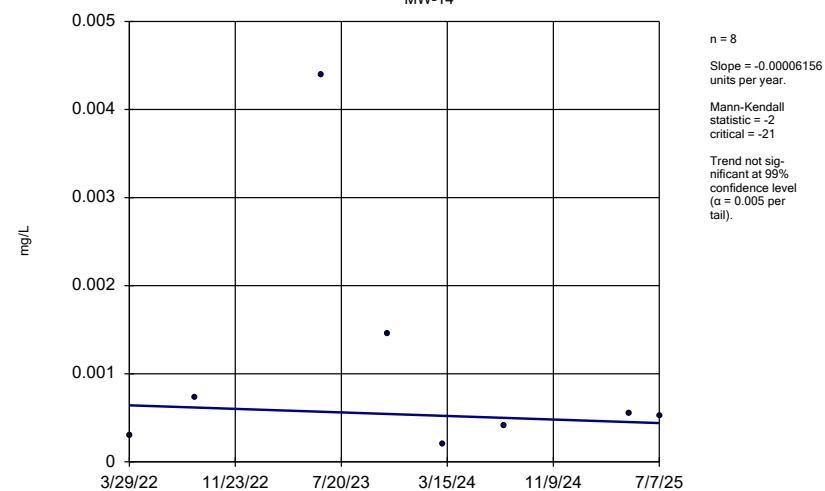
MW-13



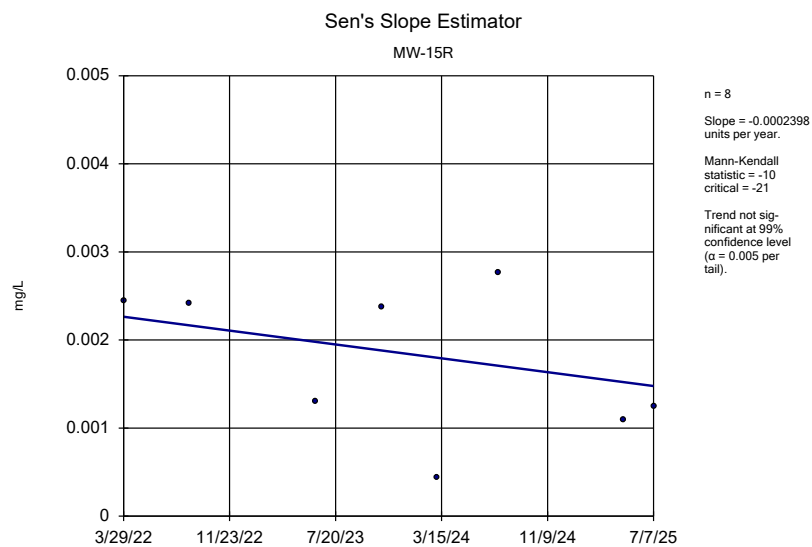
Constituent: Cobalt Analysis Run 11/4/2025 8:11 AM View: 2025_AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SACSWM_AM_2025_AWQR

Sen's Slope Estimator

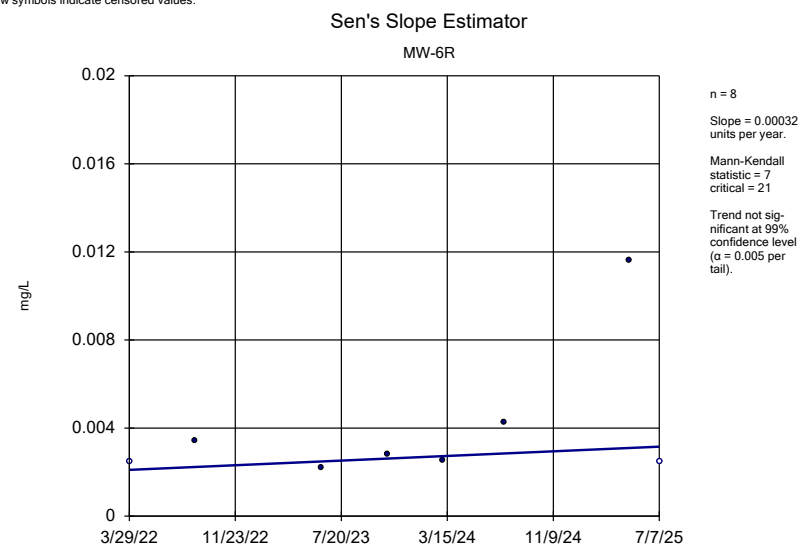
MW-14



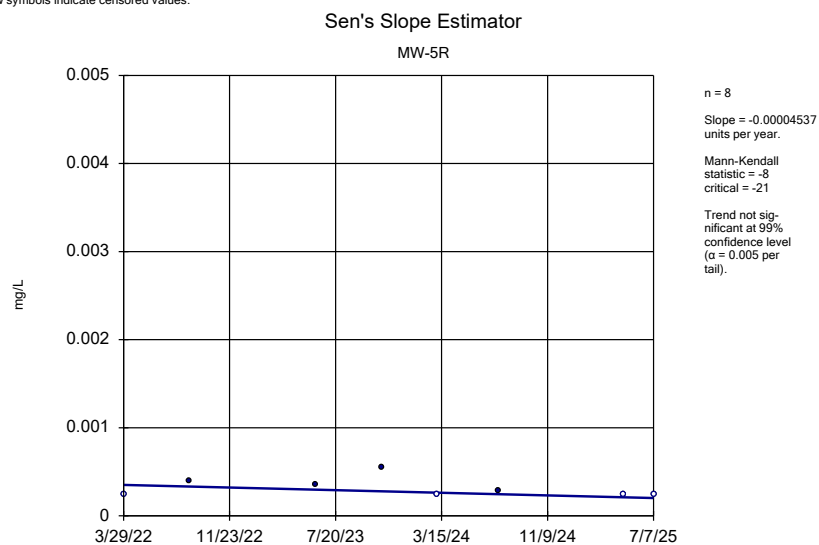
Constituent: Cobalt Analysis Run 11/4/2025 8:11 AM View: 2025_AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SACSWM_AM_2025_AWQR



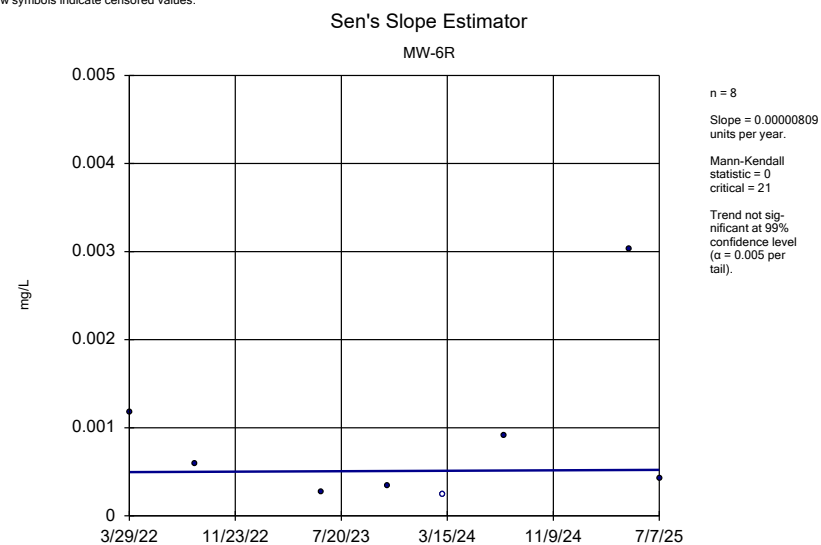
Constituent: Cobalt Analysis Run 11/4/2025 8:11 AM View: 2025_AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SACS_W_AM_2025_AWQR



Constituent: Copper Analysis Run 11/4/2025 8:11 AM View: 2025_AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SACS_W_AM_2025_AWQR



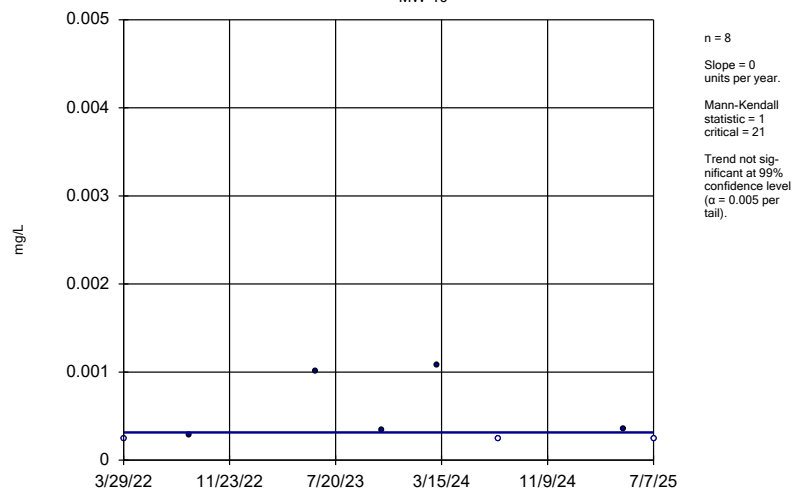
Constituent: Lead Analysis Run 11/4/2025 8:11 AM View: 2025_AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SACS_W_AM_2025_AWQR



Constituent: Lead Analysis Run 11/4/2025 8:11 AM View: 2025_AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SACS_W_AM_2025_AWQR

Sen's Slope Estimator

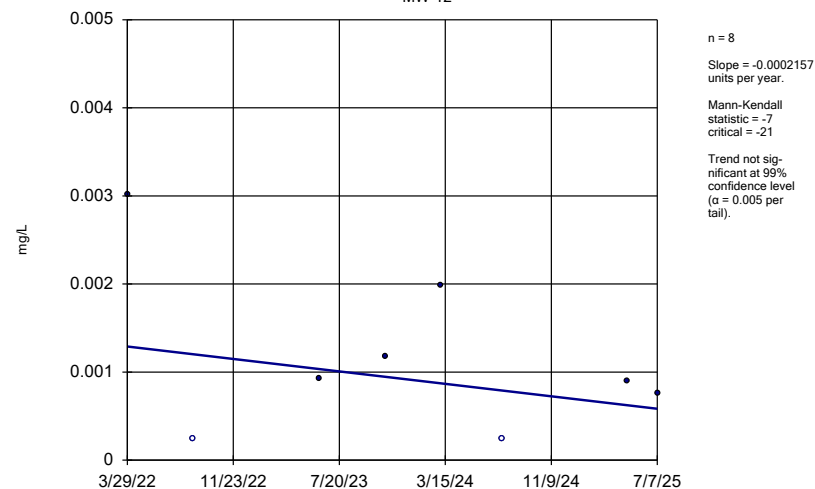
MW-10



Constituent: Lead Analysis Run 11/4/2025 8:11 AM View: 2025_AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SACSWM_AM_2025_AWQR

Sen's Slope Estimator

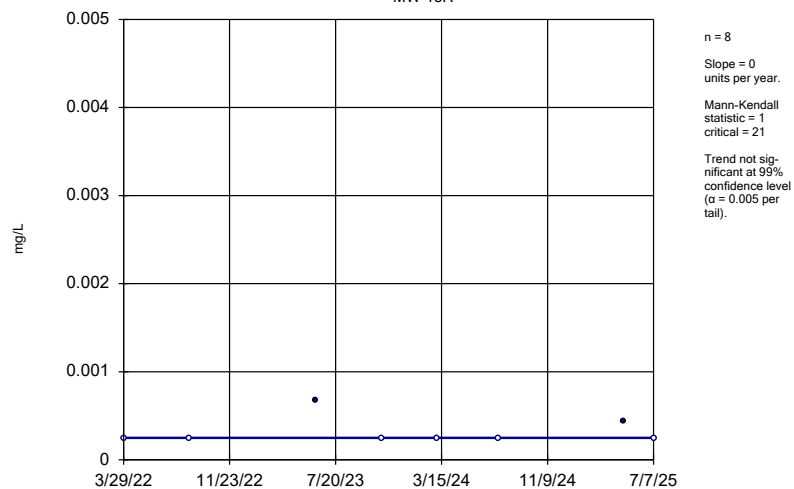
MW-12



Constituent: Lead Analysis Run 11/4/2025 8:11 AM View: 2025_AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SACSWM_AM_2025_AWQR

Sen's Slope Estimator

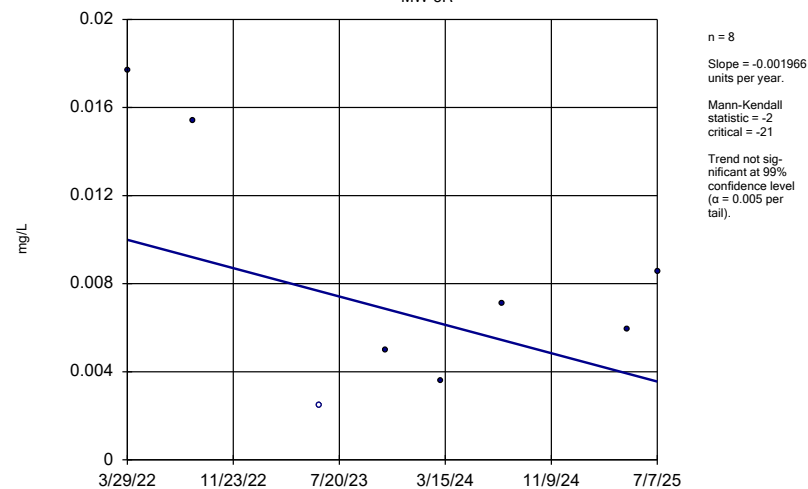
MW-15R



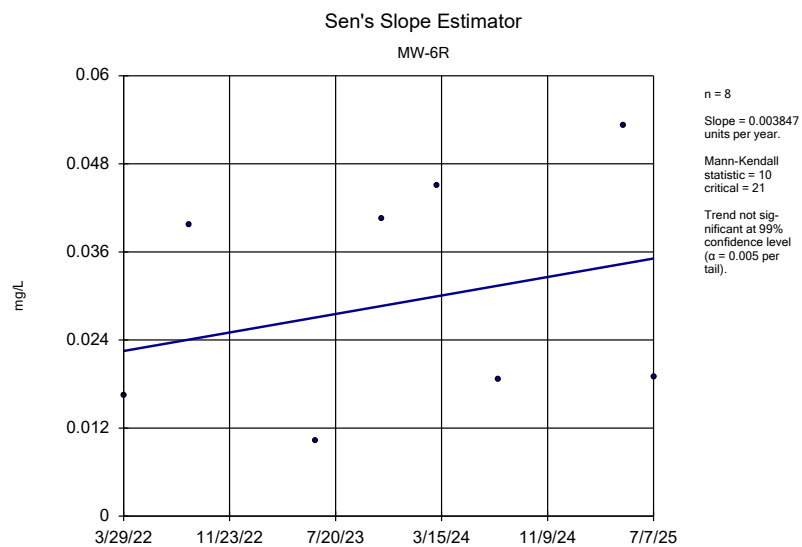
Constituent: Lead Analysis Run 11/4/2025 8:11 AM View: 2025_AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SACSWM_AM_2025_AWQR

Sen's Slope Estimator

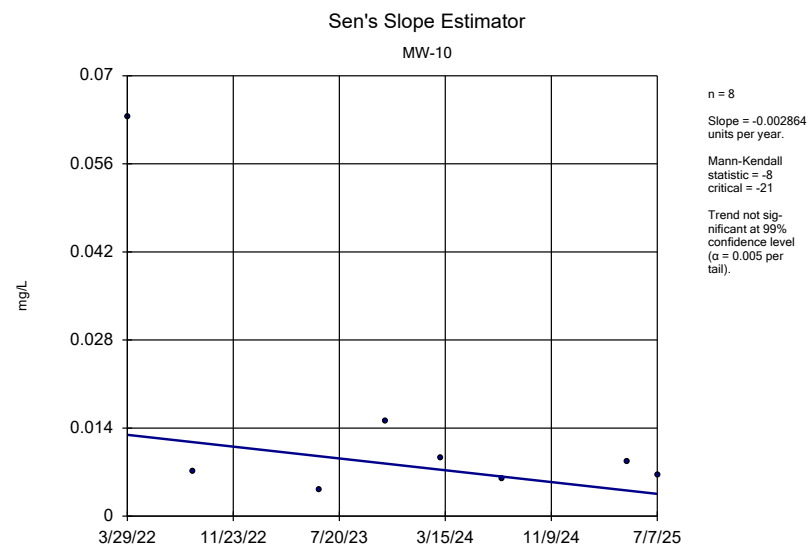
MW-5R



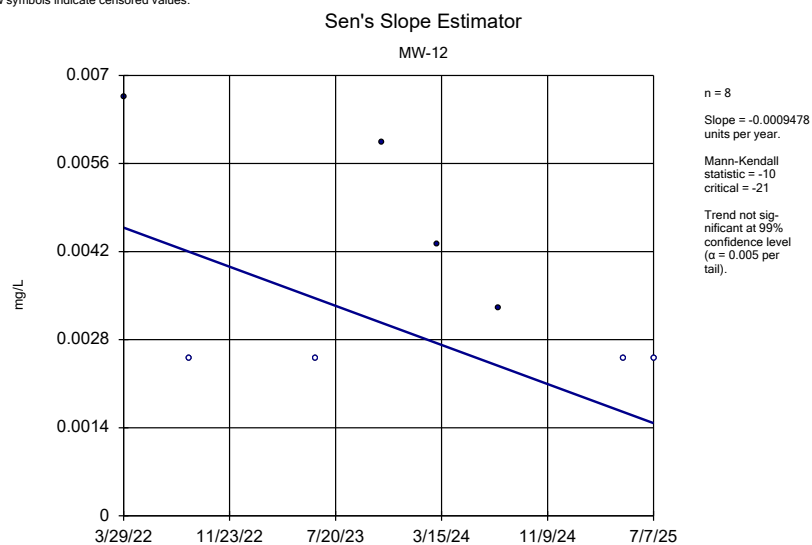
Constituent: Nickel Analysis Run 11/4/2025 8:11 AM View: 2025_AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SACSWM_AM_2025_AWQR



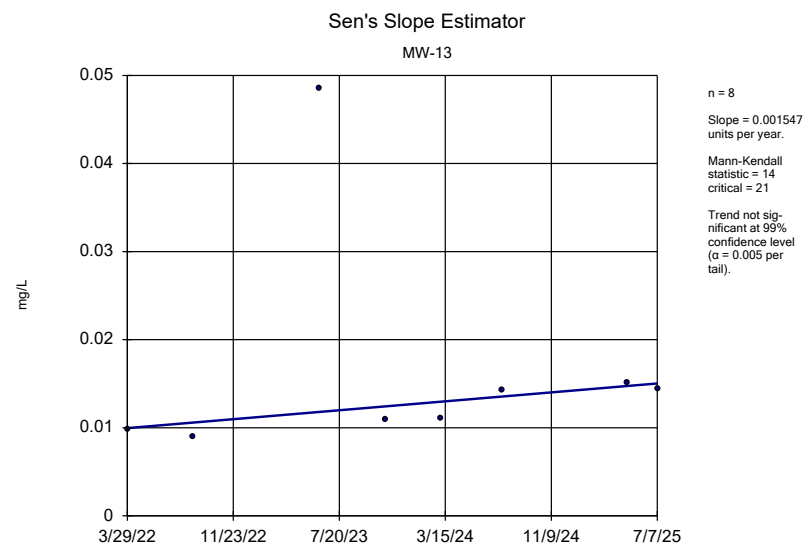
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Sac County Sanitary Landfill Client: SCS Engineers Data: SACS_W_AM_2025_AWQR



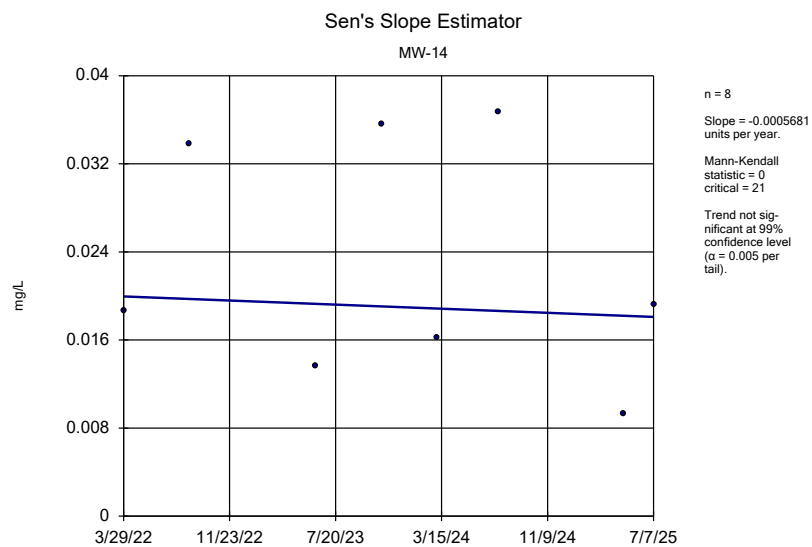
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Sac County Sanitary Landfill Client: SCS Engineers Data: SACS_W_AM_2025_AWQR



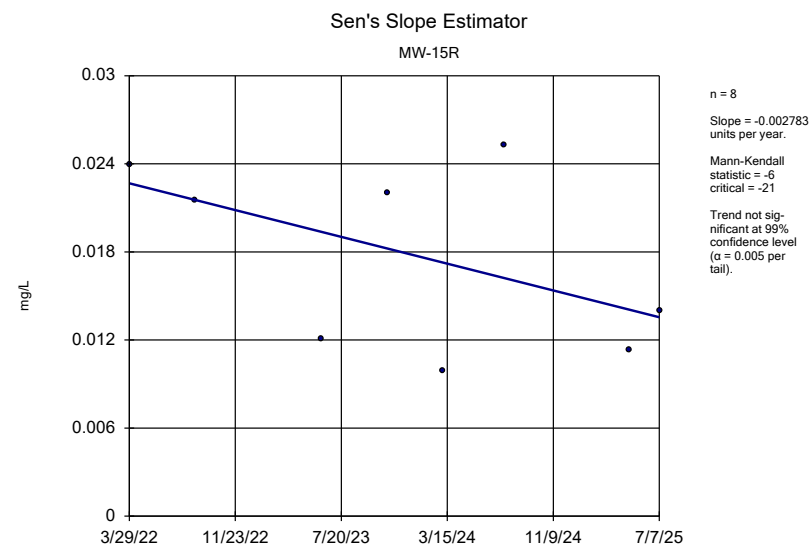
Constituent: Nickel Analysis Run 11/4/2025 8:11 AM View: 2025_AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SACS_W_AM_2025_AWQR



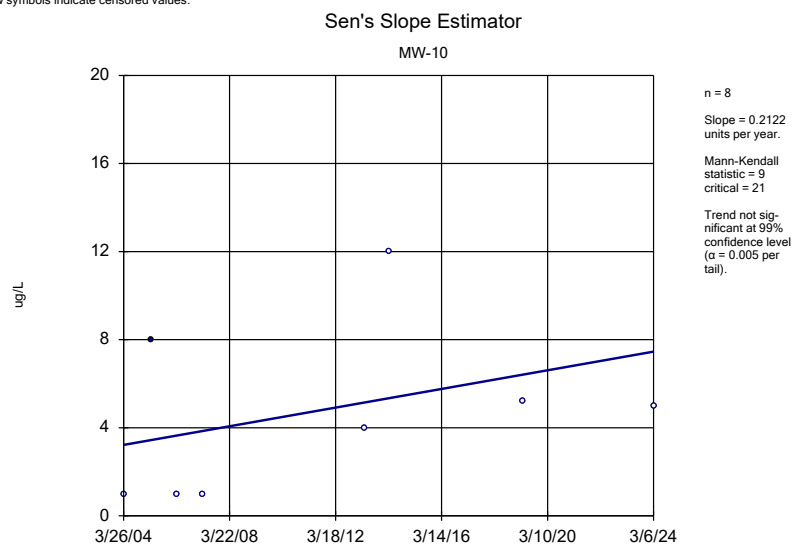
Constituent: Nickel Analysis Run 11/4/2025 8:11 AM View: 2025_AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SACS_W_AM_2025_AWQR



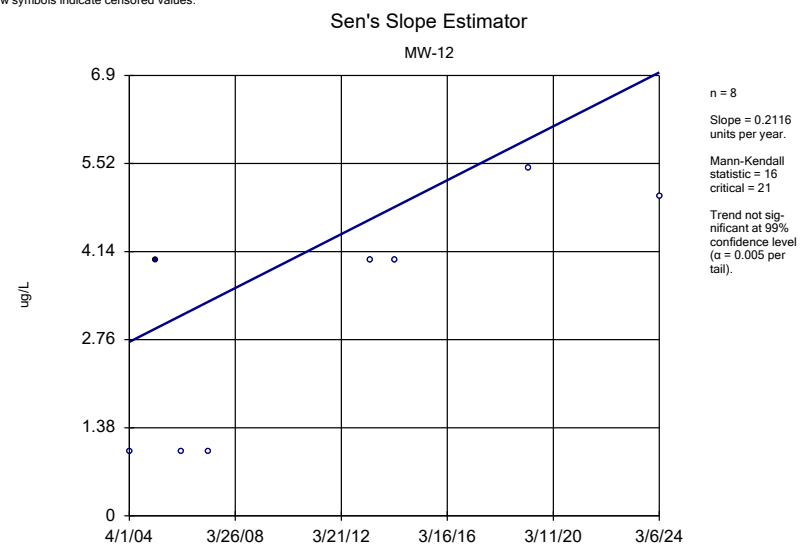
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Sac County Sanitary Landfill Client: SCS Engineers Data: SACS_W_AM_2025_AWQR



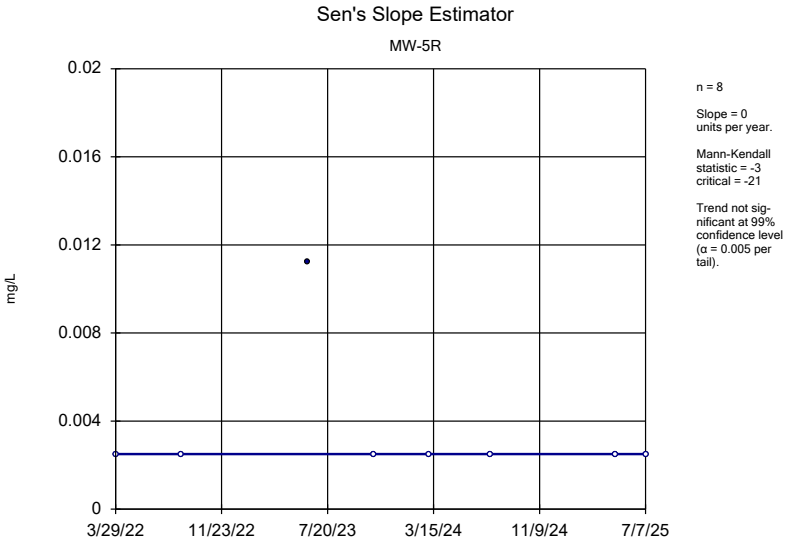
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Sac County Sanitary Landfill Client: SCS Engineers Data: SACS_W_AM_2025_AWQR



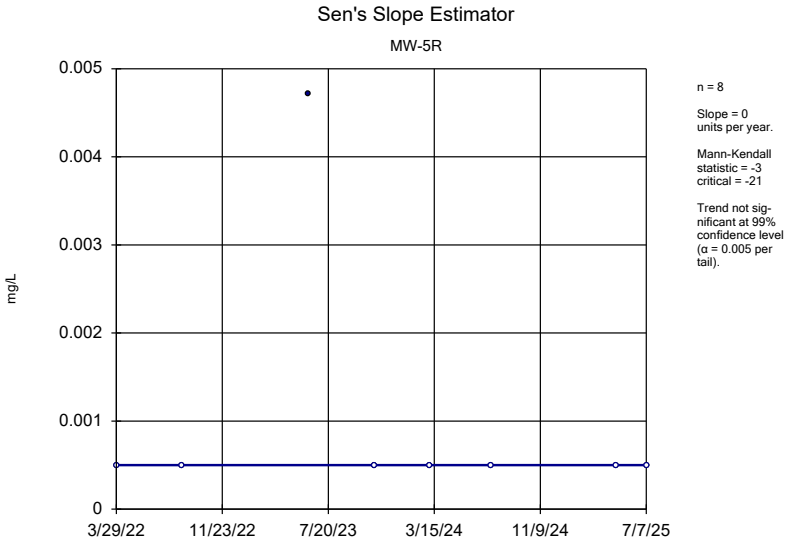
Constituent: Phenol Analysis Run 11/4/2025 8:11 AM View: 2025_AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SACS_W_AM_2025_AWQR



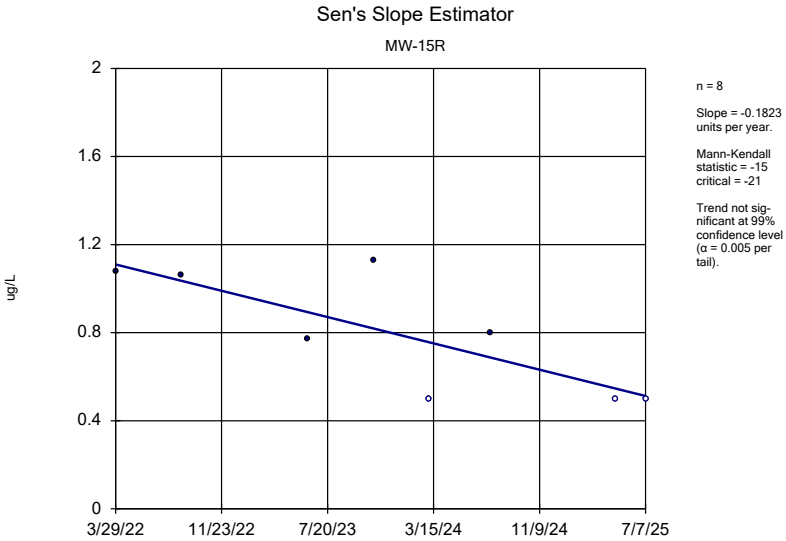
Constituent: Phenol Analysis Run 11/4/2025 8:12 AM View: 2025_AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SACS_W_AM_2025_AWQR



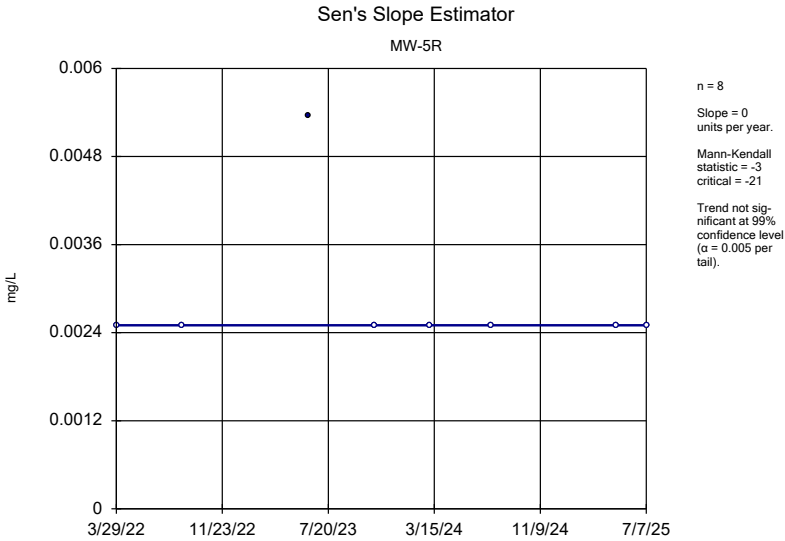
Constituent: Selenium Analysis Run 11/4/2025 8:12 AM View: 2025_AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SACS_W_AM_2025_AWQR



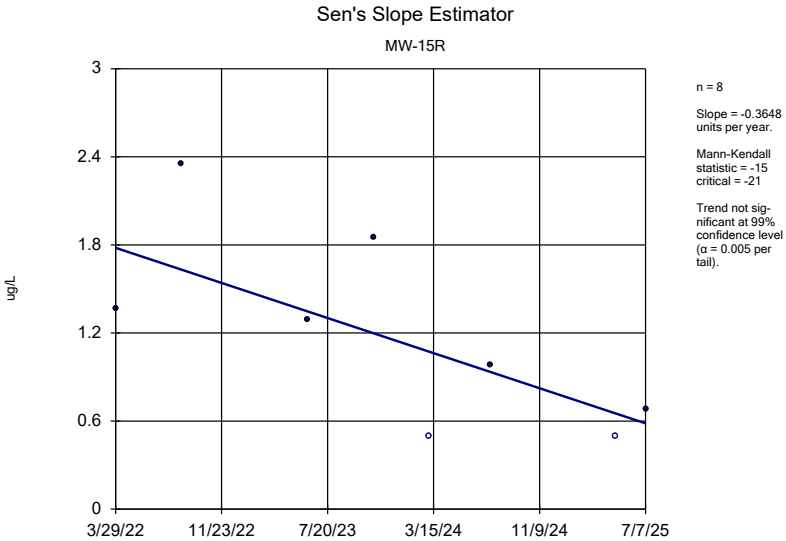
Constituent: Thallium Analysis Run 11/4/2025 8:12 AM View: 2025_AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SACS_W_AM_2025_AWQR



Constituent: trans-1,2-Dichloroethene Analysis Run 11/4/2025 8:12 AM View: 2025_AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SACS_W_AM_2025_AWQR



Constituent: Vanadium Analysis Run 11/4/2025 8:12 AM View: 2025_AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SACS_W_AM_2025_AWQR



Constituent: Vinyl Chloride Analysis Run 11/4/2025 8:12 AM View: 2025_AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SACSX_AM_2025_AWQR

Confidence Interval

Sac County Sanitary Landfill

Client: SCS Engineers

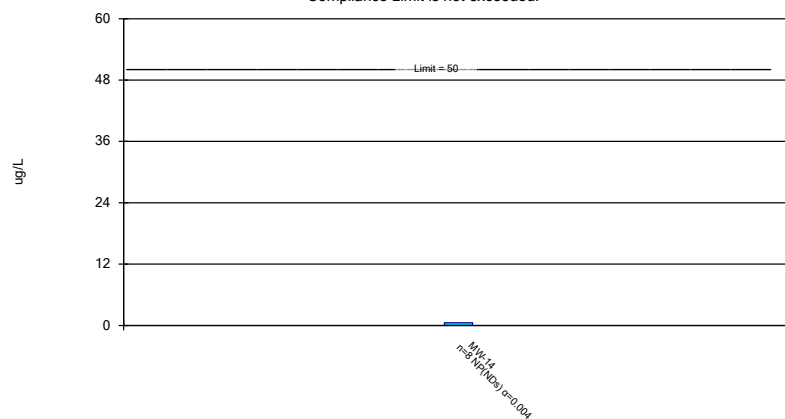
Data: SACS_{SW}_AM_2025_AWQR

Printed 11/4/2025, 8:48 AM

<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>
2,4,5-TP [Silvex] [2C] (ug/L)	MW-14	0.515	0.0246	50	No	8	75	No	0.004	NP (NDs)
Arsenic (mg/L)	MW-5R	0.00821	0.000585	0.01	No	8	62.5	No	0.004	NP (NDs)
Arsenic (mg/L)	MW-6R	0.006592	0.001688	0.01	No	8	25	No	0.01	Param.
Arsenic (mg/L)	MW-10	0.00277	0.001	0.01	No	8	87.5	No	0.004	NP (NDs)
Arsenic (mg/L)	MW-13	0.006121	0.002281	0.01	No	8	0	No	0.01	Param.
Arsenic (mg/L)	MW-14	0.00429	0.000604	0.01	No	8	75	No	0.004	NP (NDs)
Arsenic (mg/L)	MW-15R	0.0059	0.0009526	0.01	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-5R	0.3208	0.2243	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-6R	0.3913	0.08809	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-10	0.563	0.102	2	No	8	0	No	0.004	NP (normality)
Barium (mg/L)	MW-12	0.4309	0.2945	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-13	0.364	0.1135	2	No	8	0	No	0.004	NP (normality)
Barium (mg/L)	MW-14	0.2921	0.1801	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-15R	0.3079	0.2207	2	No	8	0	No	0.01	Param.
Benzene (ug/L)	MW-6R	0.721	0.25	5	No	8	75	No	0.004	NP (NDs)
Benzene (ug/L)	MW-14	0.6953	0.4417	5	No	8	50	No	0.01	Param.
Cadmium (mg/L)	MW-6R	0.0001883	0.0000672	0.005	No	8	50	No	0.01	Param.
Cadmium (mg/L)	MW-14	0.0002389	0.00008075	0.005	No	8	37.5	No	0.01	Param.
Cadmium (mg/L)	MW-15R	0.0001756	0.00008298	0.005	No	8	50	No	0.01	Param.
cis-1,2-Dichloroethene (ug/L)	MW-6R	0.6678	0.1505	70	No	8	50	No	0.01	Param.
cis-1,2-Dichloroethene (ug/L)	MW-12	3.91	0.342	70	No	8	37.5	No	0.004	NP (normality)
cis-1,2-Dichloroethene (ug/L)	MW-14	7.974	1.797	70	No	8	0	No	0.01	Param.
cis-1,2-Dichloroethene (ug/L)	MW-15R	12.89	3.976	70	No	8	0	No	0.01	Param.
Cobalt (mg/L)	MW-5R	0.001402	0.0001322	0.0044	No	8	25	No	0.01	Param.
Cobalt (mg/L)	MW-6R	0.019	0.000229	0.0044	No	8	0	No	0.004	NP (normality)
Cobalt (mg/L)	MW-10	0.00636	0.00025	0.0044	No	8	87.5	No	0.004	NP (NDs)
Cobalt (mg/L)	MW-13	0.005417	0.003045	0.0044	No	8	0	No	0.01	Param.
Cobalt (mg/L)	MW-14	0.00439	0.000201	0.0044	No	8	0	No	0.004	NP (normality)
Cobalt (mg/L)	MW-15R	0.002651	0.0008647	0.0044	No	8	0	No	0.01	Param.
Copper (mg/L)	MW-6R	0.0116	0.00218	1.3	No	8	25	No	0.004	NP (normality)
Lead (mg/L)	MW-5R	0.0004545	0.0002866	0.05	No	8	50	No	0.01	Param.
Lead (mg/L)	MW-6R	0.00303	0.00025	0.05	No	8	12.5	No	0.004	NP (normality)
Lead (mg/L)	MW-10	0.00108	0.00025	0.05	No	8	37.5	No	0.004	NP (normality)
Lead (mg/L)	MW-12	0.002079	0.0003597	0.05	No	8	25	No	0.01	Param.
Lead (mg/L)	MW-15R	0.000674	0.00025	0.05	No	8	75	No	0.004	NP (NDs)
Nickel (mg/L)	MW-5R	0.01406	0.002376	0.1	No	8	12.5	No	0.01	Param.
Nickel (mg/L)	MW-6R	0.04736	0.01337	0.1	No	8	0	No	0.01	Param.
Nickel (mg/L)	MW-10	0.0634	0.004235	0.1	No	8	0	No	0.004	NP (normality)
Nickel (mg/L)	MW-12	0.005676	0.003187	0.1	No	8	50	No	0.01	Param.
Nickel (mg/L)	MW-13	0.0486	0.009005	0.1	No	8	0	No	0.004	NP (normality)
Nickel (mg/L)	MW-14	0.03435	0.01143	0.1	No	8	0	No	0.01	Param.
Nickel (mg/L)	MW-15R	0.02415	0.01084	0.1	No	8	0	No	0.01	Param.
Phenol (ug/L)	MW-10	12	1	2000	No	8	87.5	No	0.004	NP (NDs)
Phenol (ug/L)	MW-12	5.45	1	2000	No	8	87.5	No	0.004	NP (NDs)
Selenium (mg/L)	MW-5R	0.0112	0.0025	0.05	No	8	87.5	No	0.004	NP (NDs)
Thallium (mg/L)	MW-5R	0.00472	0.0005	0.00598	No	8	87.5	No	0.004	NP (NDs)
trans-1,2-Dichloroethene (ug/L)	MW-15R	1.058	0.7441	100	No	8	37.5	No	0.01	Param.
Vanadium (mg/L)	MW-5R	0.00536	0.0025	0.035	No	8	87.5	No	0.004	NP (NDs)
Vinyl Chloride (ug/L)	MW-15R	1.85	0.6951	2	No	8	25	No	0.01	Param.

Non-Parametric Confidence Interval

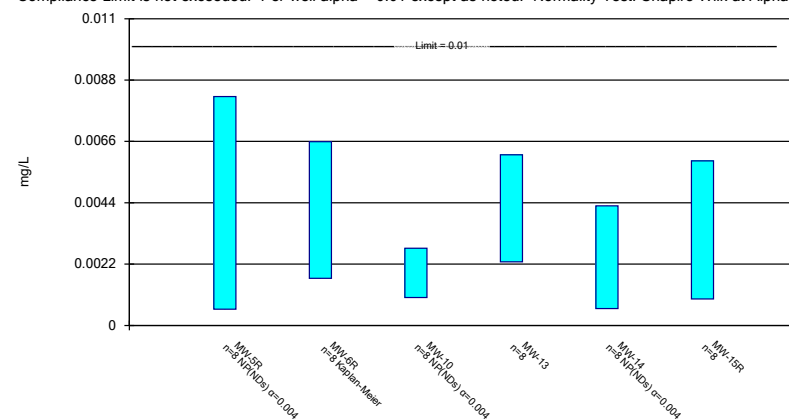
Compliance Limit is not exceeded.



Constituent: 2,4,5-TP [Silvex] [2C] Analysis Run 11/4/2025 8:46 AM View: 2025_AWQR-Confidence_Inter
Sac County Sanitary Landfill Client: SCS Engineers Data: SACSX_AM_2025_AWQR

Parametric and Non-Parametric (NP) Confidence Interval

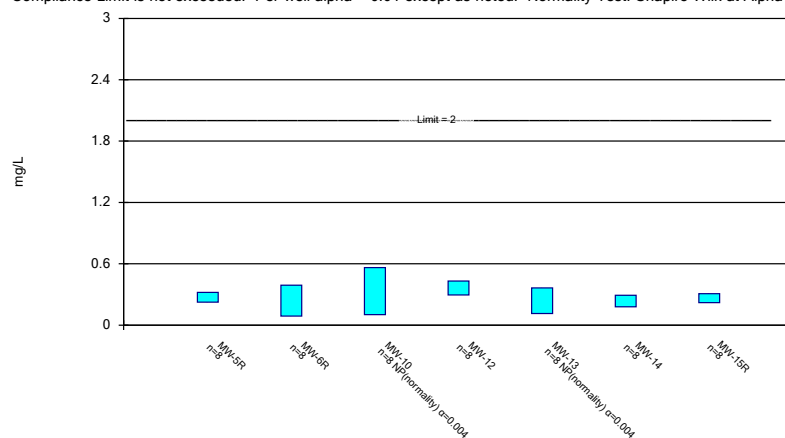
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Arsenic Analysis Run 11/4/2025 8:46 AM View: 2025_AWQR-Confidence_Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SACSX_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: Barium Analysis Run 11/4/2025 8:46 AM View: 2025_AWQR-Confidence_Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SACSX_AM_2025_AWQR

Parametric and Non-Parametric (NP) Confidence Interval

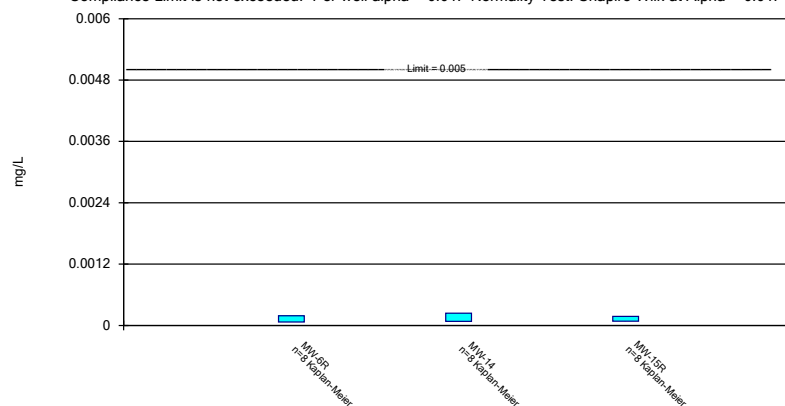
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Constituent: Benzene Analysis Run 11/4/2025 8:46 AM View: 2025_AWQR-Confidence_Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SACSX_AM_2025_AWQR

Parametric Confidence Interval

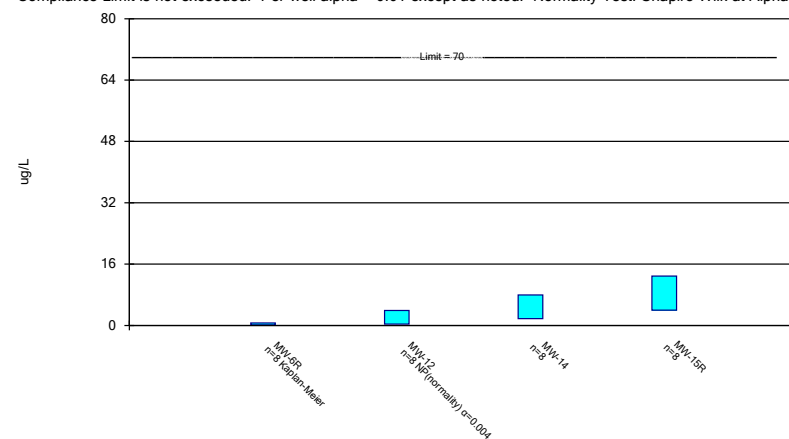
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Constituent: Cadmium Analysis Run 11/4/2025 8:46 AM View: 2025_AWQR-Confidence_Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SACSX_AM_2025_AWQR

Parametric and Non-Parametric (NP) Confidence Interval

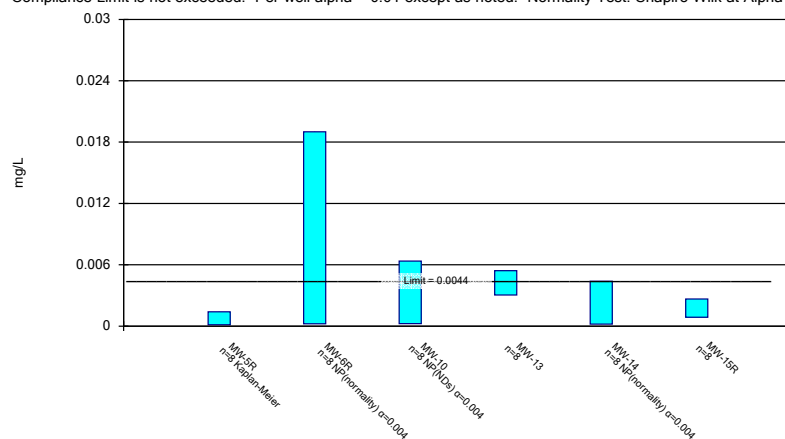
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Constituent: cis-1,2-Dichloroethene Analysis Run 11/4/2025 8:46 AM View: 2025_AWQR-Confidence_Inte
Sac County Sanitary Landfill Client: SCS Engineers Data: SACSX_AM_2025_AWQR

Parametric and Non-Parametric (NP) Confidence Interval

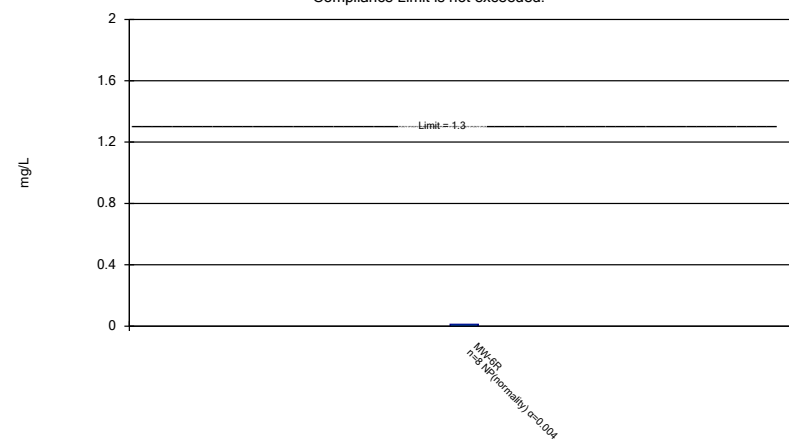
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Sac County Sanitary Landfill Client: SCS Engineers Data: SACSX_AM_2025_AWQR

Non-Parametric Confidence Interval

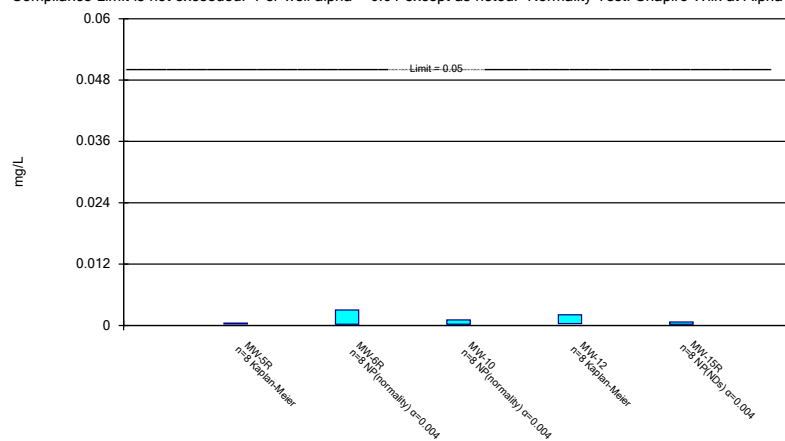
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Constituent: Copper Analysis Run 11/4/2025 8:47 AM View: 2025_AWQR-Confidence_Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SACSX_AM_2025_AWQR

Parametric and Non-Parametric (NP) Confidence Interval

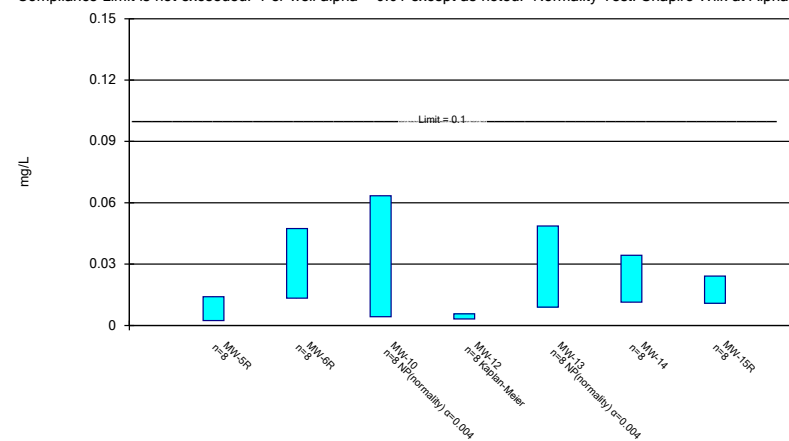
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Sac County Sanitary Landfill Client: SCS Engineers Data: SACSXW_AM_2025_AWQR

Parametric and Non-Parametric (NP) Confidence Interval

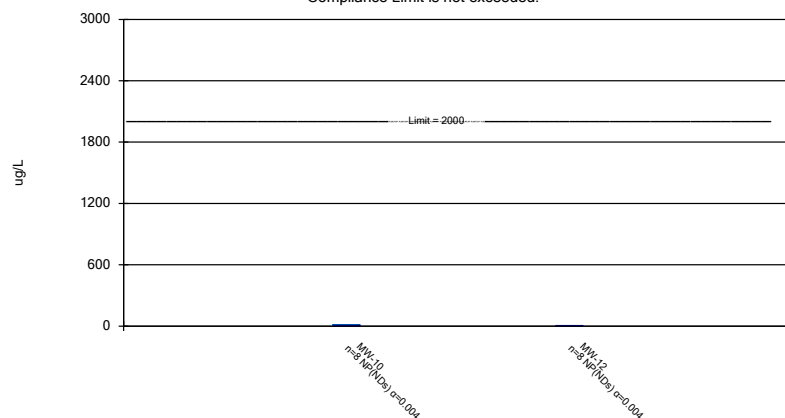
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Constituent: Nickel Analysis Run 11/4/2025 8:47 AM View: 2025_AWQR-Confidence_Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SACSXW_AM_2025_AWQR

Non-Parametric Confidence Interval

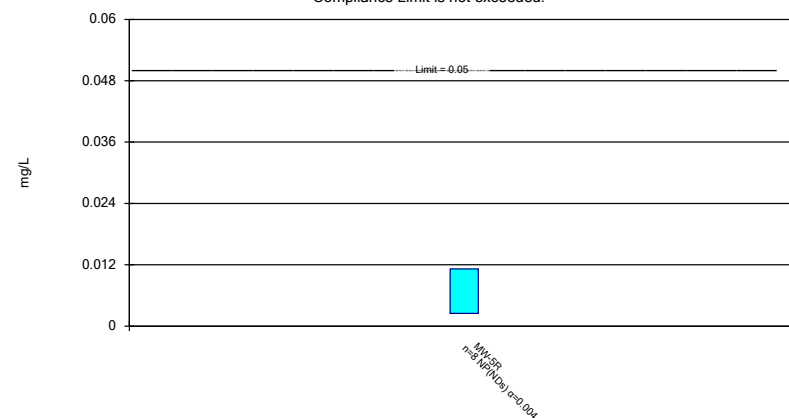
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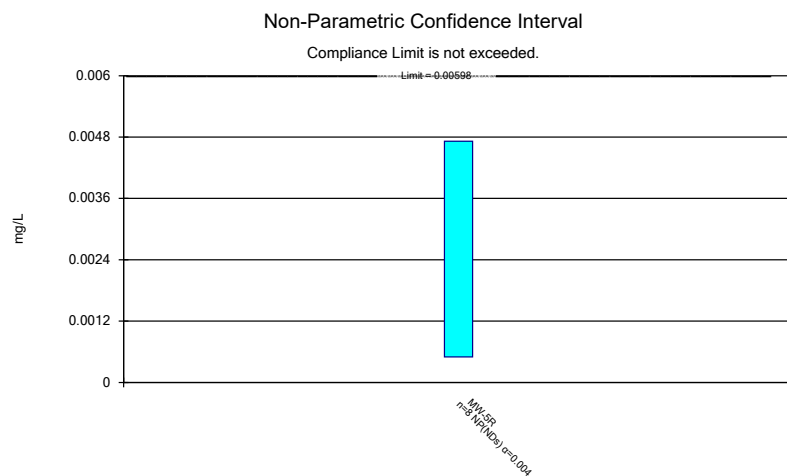
Constituent: Phenol Analysis Run 11/4/2025 8:47 AM View: 2025_AWQR-Confidence_Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SACSXW_AM_2025_AWQR

Non-Parametric Confidence Interval

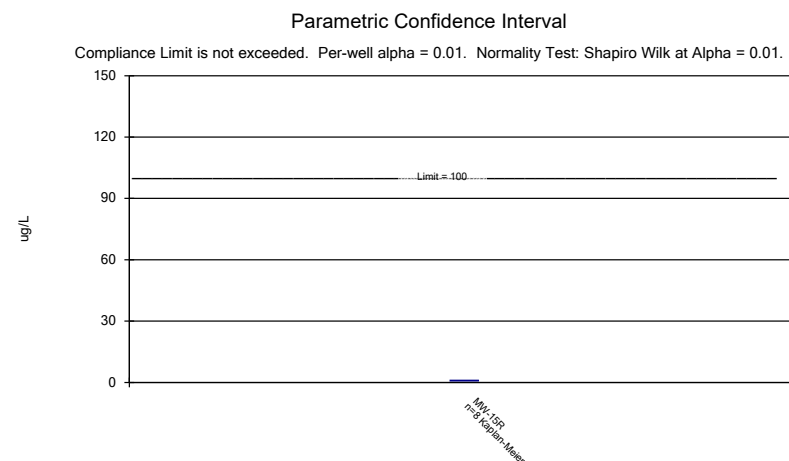
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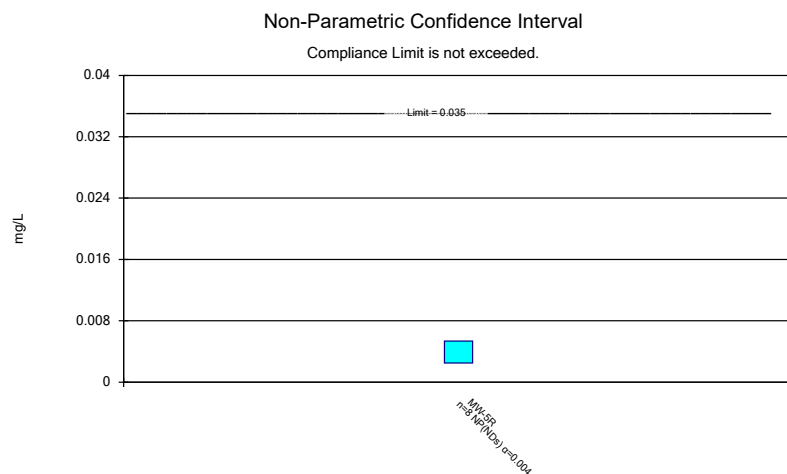
Constituent: Selenium Analysis Run 11/4/2025 8:47 AM View: 2025_AWQR-Confidence_Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SACSXW_AM_2025_AWQR



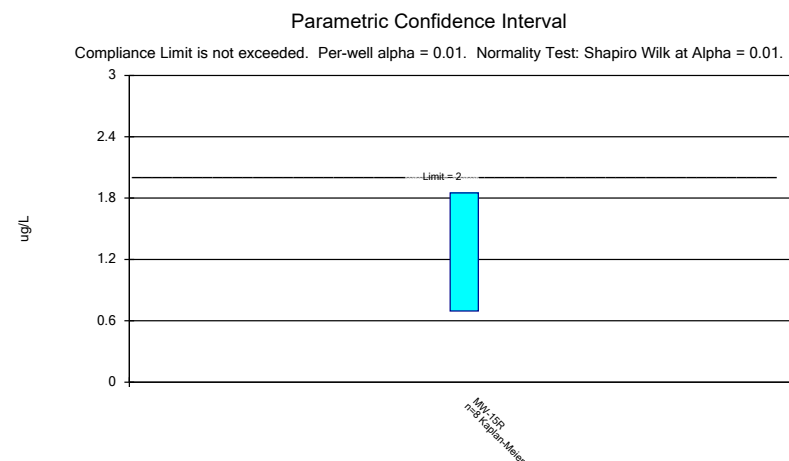
Constituent: Thallium Analysis Run 11/4/2025 8:47 AM View: 2025_AWQR-Confidence_Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SACSX_AM_2025_AWQR



Constituent: trans-1,2-Dichloroethene Analysis Run 11/4/2025 8:47 AM View: 2025_AWQR-Confidence_Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SACSX_AM_2025_AWQR



Constituent: Vanadium Analysis Run 11/4/2025 8:47 AM View: 2025_AWQR-Confidence_Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SACSX_AM_2025_AWQR



Constituent: Vinyl Chloride Analysis Run 11/4/2025 8:47 AM View: 2025_AWQR-Confidence_Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SACSX_AM_2025_AWQR

Appendix E

2025 Leachate Control System Performance Evaluation Report

Table E1
Leachate Management Summary
2025 Annual Water Quality Report
Sac County Sanitary Landfill
Permit No. 81-SDP-01-75C

Month	Unlined Cells - Column Thickness (ft)												Lined Cell - Maximum Head on Liner (ft)	Discharged to Off-Site Treatment (gal)	Precipitation (in)
	LW-A	LW-B	LW-C	LW-D	LW-E	LW-F	LW-G	LW-H	LW-I	LW-J	LW-K	LW-L	LM-7A		
November 2024	0.39	0.00	0.44	2.30	0.41	1.68	17.57	2.85	2.09	6.16	0.00	22.30	0.00	0	0.21
December 2024	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.00	0	0.32
January 2025	0.39	0.00	0.19	2.21	0.42	1.61	14.93	2.83	2.81	6.18	0.00	20.39	0.00	0	0.21
February 2025	0.38	0.00	0.21	2.26	0.47	1.62	14.96	2.85	2.80	6.16	0.00	20.38	0.00	0	0.32
March 2025	0.37	0.00	0.19	2.26	0.46	1.59	14.94	2.83	2.80	6.26	0.00	20.38	0.00	0	2.50
April 2025	0.38	0.00	0.21	2.28	0.49	1.63	14.93	2.87	2.19	6.14	0.00	20.70	0.00	0	3.00
May 2025	0.48	0.00	0.29	2.33	0.86	1.61	14.71	2.89	2.14	6.26	0.00	21.10	0.00	0	2.39
June 2025	0.68	0.00	0.39	2.40	0.96	1.51	15.56	2.96	1.99	6.41	0.00	22.00	0.00	0	5.60
July 2025	0.66	0.00	0.31	2.38	0.86	1.63	15.51	2.93	1.97	6.16	0.00	21.50	0.00	0	6.11
August 2025	0.57	0.00	0.29	2.37	1.02	1.61	11.96	3.05	2.09	6.86	0.00	20.90	0.00	0	2.91
September 2025	0.54	0.00	0.33	2.49	0.81	1.61	10.26	3.05	1.89	6.43	0.00	20.38	0.00	240,000	0.91
October 2025	0.38	0.00	0.35	2.32	0.72	1.52	8.31	3.15	1.89	6.28	0.00	20.38	0.00	0	1.28
November 2025	0.38	0.00	0.33	2.37	0.68	1.58	8.06	3.16	1.89	6.25	0.00	20.38	0.00	0	1.60
														240,000	27.36

Notes:

- 1) NR - Not Reported.
- 2) Precipitation data obtained from NOAA weather station US11ASC0007 in Sac City, IA. (ncdc.noaa.gov).
- 3) Measurements provided by Landfill staff.
- 4) Historical leachate levels and graphs are included in Attachment A.

Comments:

Reporting Period: November 2024 - November 2025.

Recommended Changes to Leachate Collection System: None.

Maintenance Performed on Leachate Collection System: None.

Last Date of Cleaning and Inspection: Leachate line cleaning was performed by Rehab Systems on 4/12/2022.

Date for Next Cleaning and Inspection: Leachate line cleaning and inspection was performed in 2022 and is scheduled to be completed next during the 2026 reporting period.

Volume of Leachate Recirculated: None.

Volume of Leachate Treated On-Site: None.

Volume of Leachate Treated Off-Site: 240,000 gallons.

Leachate Quality Testing Results: Leachate testing results for the 2025 reporting period are included in Attachment B.

Path: C:\Users\hmadison\OneDrive - SCS Engineers\Desktop\GIS\Map\Iowa Office\Sac Map\SACSMO2022_AWQD\Sac-2023_AWQD.aprx
User: hmadison
Date Saved: 9/22/2025 7:32 AM

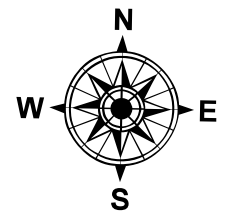


Leachate Control System

Legend

- | | | |
|--------------------------------------|-------------------------------|----------------------------|
| Leachate Monitoring Location | Leachate Line - Perforated | Located Waste Boundary |
| Approximate Leachate Monitoring Well | Leachate Line - Solid | Approximate Waste Boundary |
| Approximate Monitoring Well Location | Approximate Property Boundary | |

Sac County Sanitary Landfill
(Closed)
Sac City, Iowa
Project No: 27225365.26
Drawing Date: September
2025



0 80 160 320 480
Feet

Figure 1

Attachment A

Historical Leachate Levels and Graphs

Date	Cell 1		Cell 2		Cell 3		Cell 4		Cell 5		Cell 6		Cells 7A, 7B, & 7C
	LW-A (D)	LW-B (U)	LW-C (D)	LW-D (U)	LW-E (D)	LW-F (U)	LW-G (D)	LW-H (U)	LW-I (D)	LW-J (U)	LW-K (D)	LW-L (U)	
Well Depth (ft) ¹	19.26	10.06	22.79	20.08	26.91	24.51	41.51	36.55	18.89	33.86	19.44	26.50	16.94
7/94	0.00	0.38	2.46	2.00	0.58	1.57	4.00	3.83	2.92	9.21	0.00	7.04	NI
8/94	0.00	0.33	2.33	2.00	1.25	1.54	3.96	3.79	2.92	8.33	0.00	6.75	NI
9/94	0.00	0.33	2.38	2.17	1.25	1.50	4.00	3.75	3.13	8.71	0.00	6.71	NI
10/94	0.25	0.33	2.29	2.21	0.83	1.58	4.00	3.67	2.88	8.79	0.00	6.67	NI
11/94	0.17	0.29	2.33	2.17	0.67	1.58	3.83	3.58	2.54	8.67	0.00	6.67	NI
12/94	0.29	0.29	2.33	2.25	0.75	1.54	4.00	5.00	3.17	8.83	0.00	6.75	NI
1/95	0.08	0.29	2.25	2.17	0.67	1.58	3.50	3.25	2.13	8.75	0.13	6.58	NI
2/95	0.04	0.33	2.00	2.17	0.58	1.54	2.42	3.00	1.71	8.58	0.08	6.58	NI
3/95	0.13	0.33	2.33	2.00	0.67	1.58	4.08	3.42	2.33	8.54	0.33	6.71	NI
4/95	0.25	0.29	2.17	1.92	1.08	1.83	4.92	3.42	2.08	8.50	0.08	6.83	NI
5/95	0.13	0.33	2.50	1.92	1.00	1.58	2.25	3.92	2.67	8.46	0.58	7.42	NI
6/95	0.13	0.33	2.42	2.08	1.08	1.50	4.83	4.08	3.17	9.21	1.25	7.50	NI
7/95	0.13	0.38	2.38	2.08	1.17	1.25	4.25	4.50	3.17	9.00	1.17	7.25	NI
8/95	0.08	0.25	2.29	2.25	1.04	1.42	4.00	4.67	3.13	9.25	1.21	7.33	NI
9/95	0.17	0.33	2.29	2.25	0.92	1.42	4.17	4.63	3.33	9.00	1.17	7.13	NI
10/95	0.17	0.33	2.33	2.29	0.83	1.54	4.25	4.71	3.42	9.13	1.21	7.46	NI
11/95	0.21	0.25	2.29	2.25	0.67	1.42	4.25	3.75	3.33	8.92	1.08	7.33	NI
12/95	0.21	0.33	2.67	2.29	0.58	1.46	4.50	4.92	3.08	8.46	1.21	7.17	NI
1/96	0.25	0.25	2.17	2.00	0.42	1.50	3.75	4.33	3.00	8.50	1.00	7.25	NI
2/96	0.29	0.29	1.67	2.04	0.42	1.33	3.42	4.50	2.00	8.29	1.08	7.25	NI
3/96	1.25	0.38	2.29	2.17	0.42	1.25	4.04	4.00	2.21	8.17	1.04	6.96	NI
4/96	1.08	0.17	1.92	2.17	1.92	1.33	4.04	3.83	2.08	8.17	1.08	7.33	NI
5/96	0.17	0.17	2.58	1.33	0.92	1.13	3.92	3.67	2.67	8.00	1.13	7.96	NI
6/96	0.29	0.17	3.00	2.21	1.08	1.50	6.00	3.67	3.17	8.00	2.29	8.46	NI
7/96	0.29	0.17	2.54	2.21	1.00	1.21	4.42	3.75	3.25	8.04	3.25	8.17	NI
8/96	0.33	0.13	2.63	2.21	1.04	1.25	3.88	3.83	3.33	8.04	2.38	8.17	NI
9/96	0.33	0.17	2.50	2.21	1.00	1.17	4.42	3.88	3.50	8.08	1.96	8.21	NI
10/96	0.33	0.21	2.42	2.17	0.88	1.25	3.96	3.88	3.33	8.00	0.58	7.75	NI
11/96	0.33	0.17	2.54	2.17	0.88	1.17	4.21	4.04	3.33	7.58	1.88	7.38	NI
12/96	0.42	0.08	2.04										

Attachment A
Historical Leachate Column Thicknesses
Sac County Sanitary Landfill
Permit No. 81-SDP-01-75C

Date	Cell 1		Cell 2		Cell 3		Cell 4		Cell 5		Cell 6		Cells 7A, 7B, & 7C
	LW-A (D)	LW-B (U)	LW-C (D)	LW-D (U)	LW-E (D)	LW-F (U)	LW-G (D)	LW-H (U)	LW-I (D)	LW-J (U)	LW-K (D)	LW-L (U)	
Well Depth (ft) ¹	19.26	10.06	22.79	20.08	26.91	24.51	41.51	36.55	18.89	33.86	19.44	26.50	16.94
1/00	0.17	0.00	1.40	1.35	0.18	0.41	3.68	1.04	4.66	5.68	2.80	7.18	NI
2/00	0.15	0.00	1.89	1.05	0.12	0.35	3.69	1.18	4.62	6.22	2.83	7.60	NI
3/00	0.17	0.00	1.50	0.82	0.17	0.38	3.75	1.09	4.47	6.38	2.88	7.78	NI
4/00	0.19	0.00	1.40	0.74	0.20	0.43	3.49	1.09	4.35	5.96	2.73	7.55	NI
5/00	0.24	0.00	1.37	0.70	0.44	0.44	3.40	1.05	4.28	5.61	2.66	7.33	NI
6/00	0.17	0.00	1.30	0.65	0.57	0.45	3.38	1.05	4.27	5.75	2.69	7.48	NI
7/00	0.15	0.00	1.29	0.60	0.60	0.45	3.36	0.97	4.23	5.60	2.58	7.40	NI
8/00	0.15	0.00	1.21	0.57	0.59	0.45	3.31	0.91	4.27	5.51	2.60	7.33	NI
9/00	0.14	0.00	1.22	0.56	0.50	0.38	3.27	0.75	4.41	5.43	2.66	7.30	NI
10/00	0.15	0.00	1.24	0.56	0.48	0.38	3.35	0.67	4.49	5.49	2.72	7.42	NI
11/00	0.17	0.00	1.27	0.56	0.40	0.45	3.26	0.61	4.45	5.14	2.56	7.21	NI
12/00	0.17	0.00	1.35	0.55	0.16	0.37	3.53	0.47	4.45	5.43	2.72	7.46	NI
1/01	0.15	0.00	1.26	0.54	0.12	0.37	3.43	0.37	4.17	5.27	2.67	7.36	NI
2/01	NR	0.00	NR	0.54	0.07	0.37	3.45	0.41	4.09	5.38	2.61	7.44	NI
3/01	0.17	0.00	1.50	0.82	0.17	0.38	3.75	1.09	4.47	6.38	2.88	7.78	NI
4/01	0.08	0.00	1.54	0.60	0.27	0.43	3.59	0.28	5.07	5.18	3.26	8.08	NI
5/01	0.15	0.00	1.87	0.52	0.48	0.38	4.10	0.19	5.21	5.23	4.53	8.63	NI
6/01	0.10	0.00	1.76	0.50	0.60	0.38	4.14	0.24	5.23	5.55	4.60	8.55	NI
7/01	0.10	0.00	1.65	0.50	0.66	0.38	4.16	0.16	5.22	5.33	4.54	8.24	NI
8/01	0.10	0.00	1.87	0.51	0.93	0.36	4.10	0.17	5.17	5.65	4.51	8.18	NI
9/01	0.12	0.00	1.78	0.50	0.85	0.36	4.08	0.28	5.16	5.75	4.44	8.39	NI
10/01	0.15	0.00	1.62	0.57	0.79	0.45	4.15	0.23	5.18	8.88	4.51	8.53	NI
11/01	0.10	0.00	1.55	0.50	0.74	0.44	3.96	0.21	5.07	5.65	4.28	8.08	NI
12/01	0.10	0.00	1.52	0.50	0.62	0.37	3.85	0.14	5.04	5.63	4.04	8.02	NI
1/02	0.15	0.00	1.43	0.55	0.54	0.43	3.69	0.19	4.97	5.68	3.79	7.88	NI
2/02	0.15	0.00	1.52	0.57	0.37	0.44	3.58	0.19	4.89	5.63	3.94	7.95	NI
3/02	0.14	0.00	1.87	0.50	0.51	0.43	3.67	0.15	4.75	5.64	4.08	8.19	NI
4/02	0.10	0.00	1.91	0.49	0.64	0.39	3.54	0.09	4.75	5.59	4.42	8.03	NI
5/02	0.09	0.00	1.90	0.50	0.72	0.43	3.52	0.15	4.90	5.48	4.74	8.24	NI
6/02	0.09	0.00	1.81	0.46	0.78	0.38	3.47	0.14	4.82	5.58	4.74	8.17	NI
7/02	0.10	0.00	1.76	0.53	0.92	0.45	3.54	0.19	4.89	10.53	4.80	8.23	NI
8/02	0.08	0.00	2.17	0.54	0.98	0.38	3.55	0.25	4.98	5.54	5.21	8.51	NI
9/02	0.10	0.00	1.80	0.61	1.03	0.41	4.50	0.22	4.97	5.58	5.24	8.55	NI
10/02	0.12	0.00	1.77	0.54	0.81	0.35	3.89	0.13	4.93	6.40	5.35	8.30	NI
11/02	0.11	0.00	1.61	0.63	0.75	0.37	4.10	0.16	4.79	5.88	4.71	8.15	NI
12/02	0.14	0.00	1.52	0.62	0.41	0.37	4.30	0.16	4.76	5.81	4.72	8.30	NI
1/03	0.15	0.00	0.50	0.59	0.02	0.51	4.52	0.13	4.62	5.88	4.49	8.11	NI
2/03	0.17	0.00	1.47	0.60	0.18	0.38	4.54	0.10	4.42	5.74	4.42	8.11	NI
3/03	0.15	0.00	1.44	0.65	0.82	0.38	4.52	0.16	4.67	5.59	4.40	8.03	NI
4/03	0.15	0.00	1.42	0.62	0.91	0.44	4.40	0.08	4.60	5.63	4.68	7.88	NI
5/03	0.15	0.00	1.80	1.65	0.97	0.44	4.82	0.11	4.77	5.65	5.19	8.55	NI
6/03	0.16	0.00	1.56	1.38	0.88	0.37	4.92	0.06	4.57	5.57	5.21	8.45	NI
7/03	0.13	0.00	1.69	1.40	0.90	0.39	4.90	0.20	4.83	5.70	5.41	8.63	NI
8/03	0.15	0.00	1.65	1.34	0.87	0.37	4.95	0.24	4.93	5.80	5.31	8.66	NI
9/03	0.15	0.00	1.60	1.38	0.91	0.38	2.77	0.19	4.98	5.74	5.14	8.36	NI
10/03	0.16	0.00	1.49	1.38	0.72	0.38	4.55	0.19	5.09	5.69	5.34	8.30	NI
11/03	0.15	0.00	1.51	1.25	0.77	0.37	4.50	0.24	5.07	6.19	5.39	8.18	NI
12/03	0.17	0.00	1.47	1.10	0.66	0.37	4.59	0.28	5.11	5.67	4.62	8.17	NI
1/04	0.20	0.00	1.39	0.95	0.62	0.43	4.59	0.29	5.17	5.53	4.75	8.20	NI
2/04	0.15	0.00	1.40	0.78	0.48	0.38	4.70	0.35	5.14	5.48	4.68	8.16	NI
3/04	0.11	0.00	1.88	0.69	1.00	0.37	4.57	0.36	5.07	5.40	4.75	8.38	NI
4/04	0.12	0.00	1.71	0.65	0.97	0.39	4.60	0.33	5.11	5.45	4.85	8.48	NI
5/04	0.10	0.00	1.93	0.61	1.06	0.39	4.85	0.36	5.07	4.46	5.20	8.78	NI
6/04	0.10	0.00	1.99	0.60	1.02	0.38	4.85	0.37	5.14	5.48	5.66	8.94	NI
7/04	0.08	0.00	1.79	0.61	1.03	0.38	4.92	0.40	5.21	5.68	5.64	8.84	NI
8/04	0.10	0.00	1.70	0.58	0.98	0.38	4.94	0.31	5.23	5.65	5.58	8.75	NI
9/04	0.10	0.00	1.57	0.60	0.94	0.39	5.10	0.36	5.41	5.72	5.60	8.85	NI
10/04	0.10	0.00	1.64	0.58	0.98	0.39	5.26	0.32	5.64	4.79	5.62	8.78	NI
11/04	0.10	0.00	1.58	0.57	1.05	0.38	5.34	0.29	5.51	5.73	5.32	8.63	NI
12/04	0.11	0.00	1.53	0.56	0.80	0.37	5.40	0.29	5.27	5.58	5.40	8.72	NI
1/05	0.10	0.00	1.51	0.57	0.66	0.37	5.45	0.25	5.35	5.65	5.64	8.75	NI
2/05	0.12	0.00	1.70	0.56	1.04	0.37	5.20	0.24	5.35	5.43	5.16	8.43	NI
3/05	0.12	0.00	1.65	0.55	1.08	0.37	5.50	0.24	5.53	5.55	5.32	8.75	NI
4/05	0.10	0.00	1.87	0.53	1.15	0.38	5.05	0.28	5.53	5.53	5.28	8.73	NI
5/05	0.11	0.00	1.84	0.52	1.25	0.39	5.20	0.32	5.67	5.59	5.90	8.93	NI
6/05	0.10	0.00	1.85	0.55	1.29	0.39	5.19	0.33	5.49	5.51	6.00	8.93	NI
7/05	0.09	0.00	1.73	0.54	1.22	0.36	5.23	0.24	5.47	5.51	6.11	8.96	NI
8/05	0.08	0.00	1.64	0.54	1.23	0.39	5.87	0.31	5.39	5.53	5.94	8.81	NI
9/05	0.08	0.00	1.66	0.53	1.21	0.38	5.29	0.39	5.37	5.55	6.04	8.92	NI
10/05	0.08	0.00	1.58	0.54	1.22	0.38	5.19	0.30	5.31	5.52	5.87	8.81	NI
11/05	0.10	0.03	1.52	0.50	1.46	0.38	5.97	0.23	5.21	5.51	5.99	8.63	NI
12/05	0.10	0.00	1.51	0.52	1.34	0.37	5.15	1.09	5.17	5.41	5.69	8.78	NI

Attachment A
Historical Leachate Column Thicknesses
Sac County Sanitary Landfill
Permit No. 81-SDP-01-75C

Date	Cell 1		Cell 2		Cell 3		Cell 4		Cell 5		Cell 6		Cells 7A, 7B, & 7C
	LW-A (D)	LW-B (U)	LW-C (D)	LW-D (U)	LW-E (D)	LW-F (U)	LW-G (D)	LW-H (U)	LW-I (D)	LW-J (U)	LW-K (D)	LW-L (U)	
Well Depth (ft) ¹	19.26	10.06	22.79	20.08	26.91	24.51	41.51	36.55	18.89	33.86	19.44	26.50	16.94
1/06	0.08	0.00	1.45	0.52	1.28	0.35	2.16	1.07	5.17	5.39	5.57	8.78	NI
2/06	0.13	0.00	1.65	0.52	1.30	0.37	2.28	1.15	5.07	5.23	5.59	8.85	NI
3/06	0.11	0.00	1.98	0.52	1.62	0.43	2.05	3.26	4.97	5.33	5.44	8.71	NI
4/06	0.08	0.00	1.80	0.50	1.12	0.38	2.00	1.26	5.04	5.45	5.86	9.00	NI
5/06	0.09	0.00	1.95	0.50	1.16	0.38	1.97	1.19	5.11	5.38	6.16	9.04	NI
6/06	0.04	0.00	1.83	0.53	1.32	0.38	2.10	1.04	4.97	5.47	6.34	9.15	NI
7/06	0.10	0.00	1.77	0.49	1.32	0.38	2.18	0.89	4.88	5.43	6.15	9.06	NI
8/06	0.11	0.00	1.70	0.50	1.32	0.39	2.15	0.75	4.83	5.21	6.12	9.04	NI
9/06	0.17	0.00	1.69	0.50	1.30	0.38	2.32	0.72	4.74	5.40	6.34	9.20	NI
10/06	0.15	0.00	1.52	0.48	1.37	0.38	2.03	0.74	4.77	5.17	5.94	8.95	NI
11/06	0.15	0.00	1.53	0.48	4.42	0.37	2.22	0.97	4.78	5.33	6.03	9.03	NI
12/06	0.19	0.00	1.46	0.48	4.48	0.37	2.17	1.14	4.77	5.25	5.87	8.98	NI
1/07	0.17	0.00	1.97	0.48	1.40	0.36	F	1.29	4.70	5.18	6.09	9.15	NI
2/07	0.15	0.00	2.45	0.48	1.45	0.37	5.22	1.35	4.65	5.17	6.24	9.20	NI
3/07	0.17	0.00	2.32	0.50	1.41	0.39	5.10	1.39	4.62	5.26	5.84	8.98	NI
4/07	0.15	0.00	2.25	0.46	1.11	0.37	7.11	1.39	4.74	5.57	6.69	9.50	NI
5/07	0.15	0.00	2.08	0.48	1.26	0.38	7.11	1.45	4.72	5.67	7.21	9.60	NI
6/07	0.15	0.00	2.00	0.47	1.24	0.38	6.72	0.13	4.57	5.58	6.94	9.58	NI
7/07	0.00	0.00	2.02	0.50	1.31	0.39	6.90	1.19	4.77	5.78	7.09	8.48	NI
8/07	0.11	0.00	2.60	0.50	1.32	0.39	8.66	0.75	4.09	5.21	6.12	9.04	NI
9/07	0.17	0.00	2.59	0.50	1.30	0.38	8.83	0.72	4.00	5.40	6.34	9.20	NI
10/07	0.46	0.00	2.60	0.80	0.15	0.36	3.31	1.03	4.73	6.08	6.77	9.76	NI
11/07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NI
12/07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NI
1/08	0.41	0.00	2.61	0.97	1.33	0.36	F	2.55	3.64	6.81	6.44	10.02	0.00
2/08	0.45	0.00	2.65	0.95	1.55	0.44	F	2.55	3.59	6.64	6.33	9.98	0.00
3/08	0.40	0.00	2.39	0.78	1.26	0.46	3.13	2.60	3.19	6.53	5.59	9.70	0.00
4/08	0.39	0.00	2.54	0.71	1.36	0.46	3.41	2.60	3.91	6.56	6.00	10.56	0.00
5/08	0.37	0.00	2.66	0.63	1.21	0.51	3.16	2.64	3.94	7.08	5.58	10.70	0.00
6/08	0.36	0.00	2.45	0.70	1.21	0.49	3.08	2.55	3.83	7.01	5.69	10.79	0.00
7/08	0.41	0.00	2.44	0.93	1.21	0.49	3.09	2.80	3.78	7.46	5.63	10.65	0.00
8/08	0.42	0.00	2.30	0.97	1.09	0.47	2.95	2.53	3.64	7.22	5.66	10.70	0.00
9/08	0.45	0.00	2.38	1.49	0.10	0.47	3.16	2.55	3.63	7.40	5.89	10.75	0.00
10/08	2.41	0.00	2.35	1.59	1.10	0.46	2.95	2.60	3.56	4.88	5.79	10.37	0.00
11/08	0.43	0.00	2.35	1.77	1.00	0.47	3.06	2.60	3.57	6.75	6.01	10.64	0.00
12/08	0.12	0.00	F	1.77	1.46	0.47	F	2.66	3.47	6.77	5.79	9.85	0.00
1/09	0.10	0.00	F	1.70	1.22	0.42	F	F	3.22	6.53	4.98	10.06	0.00
2/09	0.38	0.00	2.31	1.67	1.12	0.47	F	F	3.15	6.41	5.20	10.13	0.00
3/09	0.43	0.00	2.34	1.54	1.35	0.43	2.80	2.76	3.65	6.67	5.23	10.63	0.00
4/09	0.42	0.00	2.25	1.36	1.20	0.48	2.60	2.74	4.54	6.48	5.09	10.43	0.00
5/09	0.38	0.00	2.25	1.30	1.12	3.50	2.96	2.80	3.46	6.47	5.12	10.41	0.00
6/09	0.42	0.00	2.31	1.32	1.15	0.47	2.75	2.81	3.66	6.59	5.11	10.43	0.00
7/09	0.37	0.00	2.30	1.36	1.02	0.56	2.72	2.59	3.34	6.92	5.40	10.42	0.00
8/09	0.44	0.00	2.24	1.99	1.01	0.46	2.51	2.47	3.34	9.76	5.51	10.62	0.00
9/09	0.41	0.00	2.21	1.98	0.93	0.43	2.54	2.42	3.28	12.94	5.46	10.37	0.00
10/09	0.42	0.00	0.20	1.89	0.90	0.47	2.53	2.57	3.22	6.89	5.19	10.39	0.00
11/09	0.34	0.00	1.17	1.55	0.94	0.47	2.50	2.73	2.91	6.94	5.26	10.52	0.00
12/09	0.22	0.00	2.18	1.45	1.40	0.46	F	2.77	2.78	7.00	5.48	10.69	0.00
1/10	0.41	0.00	2.20	1.94	1.31	0.48	F	2.93	2.89	7.05	5.48	10.57	0.00
2/10	0.36	0.00	2.26	1.88	1.39	0.49	F	2.82	2.76	6.80	5.62	11.04	0.00
3/10	0.37	0.00	2.31	1.87	1.43	0.46	2.76	2.76	2.69	6.76	5.54	11.10	0.00
4/10	0.34	0.00	3.17	1.84	1.24	0.46	2.59	2.81	2.38	8.02	5.42	11.08	0.00
5/10	0.35	0.00	2.15	1.93	1.12	6.19	7.47	2.81	2.08	7.39	6.13	11.11	0.00
6/10	0.82	0.00	2.00	1.87	1.73	0.86	8.04	3.54	2.10	7.45	5.48	11.14	0.00
7/10	0.50	0.00	2.10	1.90	1.12	4.19	7.59	2.99	2.09	6.91	5.84	11.10	0.00
8/10	0.46	0.00	2.14	2.08	2.01	3.43	7.95	1.59	3.93	7.18	6.06	11.21	0.00
9/10	0.38	0.00	2.18	2.18	2.26	0.42	10.43	2.99	3.93	7.18	6.06	11.26	0.00
10/10	0.36	0.00	2.11	2.08	2.16	0.39	10.41	3.00	3.86	7.16	5.86	11.10	0.00
11/10	0.34	0.00	2.07	2.03	2.11	0.31	10.39	2.97	3.59	6.91	5.70	11.08	0.00
12/10	0.36	0.00	2.07	2.00	2.09	0.16	F	2.93	3.44	6.83	5.54	11.05	0.00
1/11	0.39	NR	2.08	1.89	1.11	0.46	-19.24	2.92	3.75	6.69	5.29	10.48	NR
2/11	0.42	NR	2.10	1.92	1.13	0.51	-19.20	2.95	3.77	6.73	5.32	10.50	NR
3/11	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
4/11	0.40	NR	2.09	3.03	1.10	0.56	-19.30	2.97	3.59	6.65	5.06	10.45	NR
5/11	0.37	NR	2.06	2.17	8.97	0.55	-19.21	3.31	3.77	8.62	5.53	11.38	NR
6/11	0.43	NR	2.10	2.13	0.96	0.56	-19.24	2.80	3.98	6.96	6.13	11.16	NR
7/11	0.41	NR	2.08	2.10	0.91	0.54	-19.29	2.75	3.89	6.90	6.04	11.10	NR
8/11	0.40	NR	2.09	2.17	0.94	0.51	-19.31	2.73	3.86	6.89	5.94	11.11	NR
9/11	0.46	NR	2.03	2.13	0.99	-3.88	-14.12	3.07	3.85	7.61	7.35	12.19	NR
10/11	0.43	NR	2.03	2.08	0.93	-14.81	-13.61	21.55	-8.09	21.76	4.74	NR	NR
11/11	0.41	NR	2.04	2.01	0.91	0.52	-19.34	2.86	3.98	6.86	7.32	11.50	NR
12/11	0.39	NR	2.08	1.93	0.80	0.60	-19.35	5.81	4.02	6.59	7.31	11.38	NR

Attachment A
Historical Leachate Column Thicknesses
Sac County Sanitary Landfill
Permit No. 81-SDP-01-75C

Date	Cell 1		Cell 2		Cell 3		Cell 4		Cell 5		Cell 6		Cells 7A, 7B, & 7C
	LW-A (D)	LW-B (U)	LW-C (D)	LW-D (U)	LW-E (D)	LW-F (U)	LW-G (D)	LW-H (U)	LW-I (D)	LW-J (U)	LW-K (D)	LW-L (U)	
Well Depth (ft) ¹	19.26	10.06	22.79	20.08	26.91	24.51	41.51	36.55	18.89	33.86	19.44	26.50	16.94
1/12	0.46	0.00	2.26	1.78	1.91	0.60	7.11	2.63	3.34	6.98	5.67	10.73	0.00
2/12	0.47	0.00	2.24	1.73	1.87	0.15	7.67	2.66	3.49	7.02	6.29	10.76	0.00
3/12	0.39	0.00	4.35	1.12	2.82	0.38	7.55	2.64	3.46	7.01	5.78	10.76	0.00
4/12	0.42	0.00	4.35	1.12	2.82	0.50	7.55	2.63	3.43	6.41	5.78	10.72	0.00
5/12	0.44	0.00	4.34	1.16	2.55	0.42	6.95	3.07	3.19	6.17	2.99	10.70	0.00
6/12	0.45	0.00	3.78	0.28	1.99	0.44	4.68	2.54	3.27	6.15	6.43	10.90	0.00
7/12	0.46	0.00	3.29	1.18	1.06	0.45	3.86	2.41	3.26	6.03	6.58	11.20	0.00
8/12	0.45	0.00	2.00	1.17	0.77	0.50	2.02	2.26	3.32	5.89	7.05	12.43	0.00
9/12	0.49	0.00	2.14	1.14	0.78	0.50	2.14	2.26	3.34	5.87	7.02	11.59	0.00
10/12	0.46	0.00	2.11	1.13	0.76	0.48	2.13	2.22	3.32	5.85	6.99	11.57	0.00
11/12	0.46	0.00	2.09	1.11	0.74	0.46	2.11	2.20	3.29	5.81	6.98	11.55	0.00
12/12	0.45	0.00	2.08	1.10	0.71	0.45	2.10	2.19	3.29	5.80	6.96	11.54	0.00
1/13	0.44	NR	2.05	1.10	0.71	0.43	2.06	2.18	3.29	5.79	6.95	11.51	0.00
2/13	NR	NR	2.06	1.08	0.72	0.01	2.01	2.19	3.27	5.76	6.84	11.53	0.00
3/13	NR	NR	2.04	0.98	0.71	-0.47	1.95	2.15	3.30	7.76	5.94	11.50	0.00
4/13	0.46	NR	3.01	0.87	0.70	0.57	1.92	2.16	3.33	13.02	4.77	10.62	0.00
5/13	0.48	NR	3.07	0.90	0.72	0.61	1.96	2.19	3.34	13.63	5.38	10.63	0.00
6/13	0.50	NR	3.05	0.91	0.73	0.62	1.97	2.18	3.33	13.62	5.44	10.62	0.00
7/13	0.46	NR	3.02	0.90	0.72	0.61	2.11	2.20	3.44	12.06	5.54	10.60	0.00
8/13	0.45	NR	3.01	0.89	0.71	0.57	2.21	2.23	3.51	10.21	5.69	11.90	0.00
9/13	0.44	NR	2.00	0.87	0.67	0.51	2.16	2.27	3.57	6.92	5.84	12.90	0.00
10/13	0.43	NR	1.99	0.85	0.66	0.54	2.13	2.26	3.55	6.91	5.83	12.75	0.00
11/13	0.46	NR	1.98	0.83	0.65	0.61	F	2.27	3.50	6.92	5.82	12.60	0.00
12/13	0.52	NR	1.96	0.82	0.64	0.53	F	2.28	3.43	6.94	5.81	12.09	0.00
1/14	0.50	NR	1.94	1.08	0.64	0.51	F	2.26	3.29	6.88	5.74	12.00	F
2/14	0.47	NR	F	1.12	0.63	0.50	F	2.25	2.94	6.66	5.59	11.65	0.00
3/14	0.44	NR	F	1.28	0.62	0.48	2.61	2.24	2.79	6.10	5.50	11.42	F
4/14	0.45	NR	F	1.23	0.61	0.47	2.60	2.25	2.77	6.26	5.45	11.40	F
5/14	0.47	NR	1.92	1.33	0.59	0.48	2.61	2.26	2.89	6.66	5.54	11.50	0.00
6/14	0.46	NR	1.94	1.58	0.57	0.50	2.62	2.37	3.09	7.56	5.79	11.55	0.05
7/14	0.45	NR	1.95	1.78	0.58	0.51	2.61	2.39	3.49	7.51	5.84	11.75	0.06
8/14	0.43	NR	1.94	1.88	0.60	0.51	2.56	2.49	3.64	7.46	5.86	11.80	0.00
9/14	0.45	NR	1.93	1.83	0.61	0.50	2.55	2.76	3.74	7.41	5.84	12.50	0.00
10/14	0.46	NR	1.93	1.81	0.60	0.36	2.55	2.67	3.72	7.39	5.80	12.85	0.00
11/14	0.45	NR	1.92	1.80	0.56	0.49	2.54	2.66	3.70	7.37	5.60	12.72	0.00
12/14	0.44	NR	1.91	1.78	0.59	0.48	2.53	2.65	3.69	7.36	5.59	12.70	0.00
1/15	0.47	NR	1.91	1.56	0.52	0.36	4.79	2.70	3.58	7.55	5.35	13.00	0.00
2/15	0.45	NR	1.87	1.51	0.51	0.39	4.83	2.73	3.60	7.56	5.27	12.95	0.00
3/15	0.46	NR	1.90	1.50	0.55	0.41	4.86	2.75	3.61	7.58	5.17	13.00	0.00
4/15	0.47	NR	1.88	1.48	0.59	0.50	4.92	2.80	3.65	7.64	5.15	13.02	0.00
5/15	0.46	NR	1.87	1.47	0.53	0.48	4.83	2.84	3.61	7.68	5.13	13.01	0.00
6/15	0.44	NR	1.88	1.39	0.43	0.62	5.11	2.87	3.55	7.77	5.12	13.02	0.00
7/15	0.43	NR	1.86	1.36	0.36	1.26	5.30	3.08	3.29	7.71	4.44	12.52	0.00
8/15	0.45	NR	1.85	1.37	0.21	1.11	5.47	3.18	3.31	6.88	4.15	11.45	0.00
9/15	0.45	NR	1.80	1.35	0.02	1.41	4.62	3.30	2.84	8.84	3.55	10.48	0.00
10/15	0.46	NR	1.66	1.36	0.01	1.32	4.80	3.37	2.44	8.63	2.46	10.27	0.00
11/15	0.39	NR	1.53	1.34	-0.02	1.13	4.73	3.43	1.84	8.19	2.26	10.10	0.00
12/15	0.41	NR	1.44	1.33	-0.09	0.97	4.61	3.47	0.91	8.11	1.90	10.05	0.00
1/16	0.39	NR	2.08	1.89	1.11	0.46	2.27	2.92	3.75	6.69	5.29	10.48	0.00
2/16	0.42	NR	2.10	1.92	1.13	0.51	2.31	2.95	3.77	6.73	5.32	10.50	0.00
3/16	0.41	NR	2.07	2.02	1.11	0.52	2.01	2.95	3.71	6.72	5.28	10.48	0.00
4/16	0.40	NR	2.09	3.03	1.10	0.56	2.21	2.97	3.59	6.65	5.06	10.45	0.00
5/16	0.37	NR	2.06	2.17	0.97	0.55	2.30	3.31	3.77	8.62	5.53	11.38	0.00
6/16	0.43	NR	2.10	2.13	0.96	0.56	2.27	2.80	3.98	6.96	6.13	11.16	0.00
7/16	0.41	NR	2.08	2.10	0.91	0.54	2.22	2.75	3.89	6.90	6.04	11.10	0.00
8/16	0.40	NR	2.09	2.17	0.94	0.51	2.20	2.73	3.86	6.89	5.94	11.11	0.00
9/16	0.46	NR	2.03	2.13	0.99	0.39	3.12	3.07	3.85	7.61	7.35	12.19	0.00
10/16	0.43	NR	2.03	2.08	0.93	0.51	2.19	2.94	3.89	6.90	4.74	11.97	0.00
11/16	0.41	NR	2.04	2.01	0.91	0.52	2.17	2.86	3.98	6.86	7.32	11.50	0.00
12/16	0.42	0.00	F	1.77	1.46	0.47	F	2.66	3.47	6.77	5.79	12.85	0.00
1/17	0.41	0.00	2.61	0.97	1.33	0.36	F	2.55	3.64	6.81	6.44	10.02	0.00
2/17	0.45	0.00	2.65	0.95	1.55	0.44	F	2.55	3.59	6.64	6.33	9.98	0.00
3/17	0.40	0.00	2.39	0.78	1.26	0.46	3.13	2.60	3.19	6.53	5.59	9.70	0.00
4/17	0.39	0.00	2.54	0.71	1.36	0.46	3.41	2.60	3.91	6.56	6.00	10.56	0.00
5/17	0.37	0.00	2.66	0.63	1.21	0.51	3.16	2.64	3.94	7.08	5.58	10.70	0.00
6/17	0.36	0.00	2.45	0.70	1.21	0.49	3.08	2.55	3.83	7.01	5.69	10.79	0.00
7/17	0.41	0.00	2.44	0.93	1.21	0.49	3.09	2.80	3.78	7.46	5.63	10.65	0.00
8/17	0.42	0.00	2.30	0.97	1.09	0.47	2.95	2.53	3.64	7.22	5.66	10.70	0.00
9/17	0.42	0.00	2.15	1.89	1.31	0.36	2.71	2.95	2.68	7.06	5.44	10.54	0.00
10/17	0.40	0.00	2.10	1.87	1.29	0.35	2.67	2.91	2.66	7.02	5.39	10.53	0.00
11/17	0.43	0.00	2.17	1.88	1.32	0.40	2.71	2.95	2.70	7.05	5.41	10.59	0.00
12/17	0.46	0.00	2.20	1.91	1.35	0.43	2.73	2.97	2.70	7.07	NR	10.63	0.00

Attachment A
Historical Leachate Column Thicknesses
Sac County Sanitary Landfill
Permit No. 81-SDP-01-75C

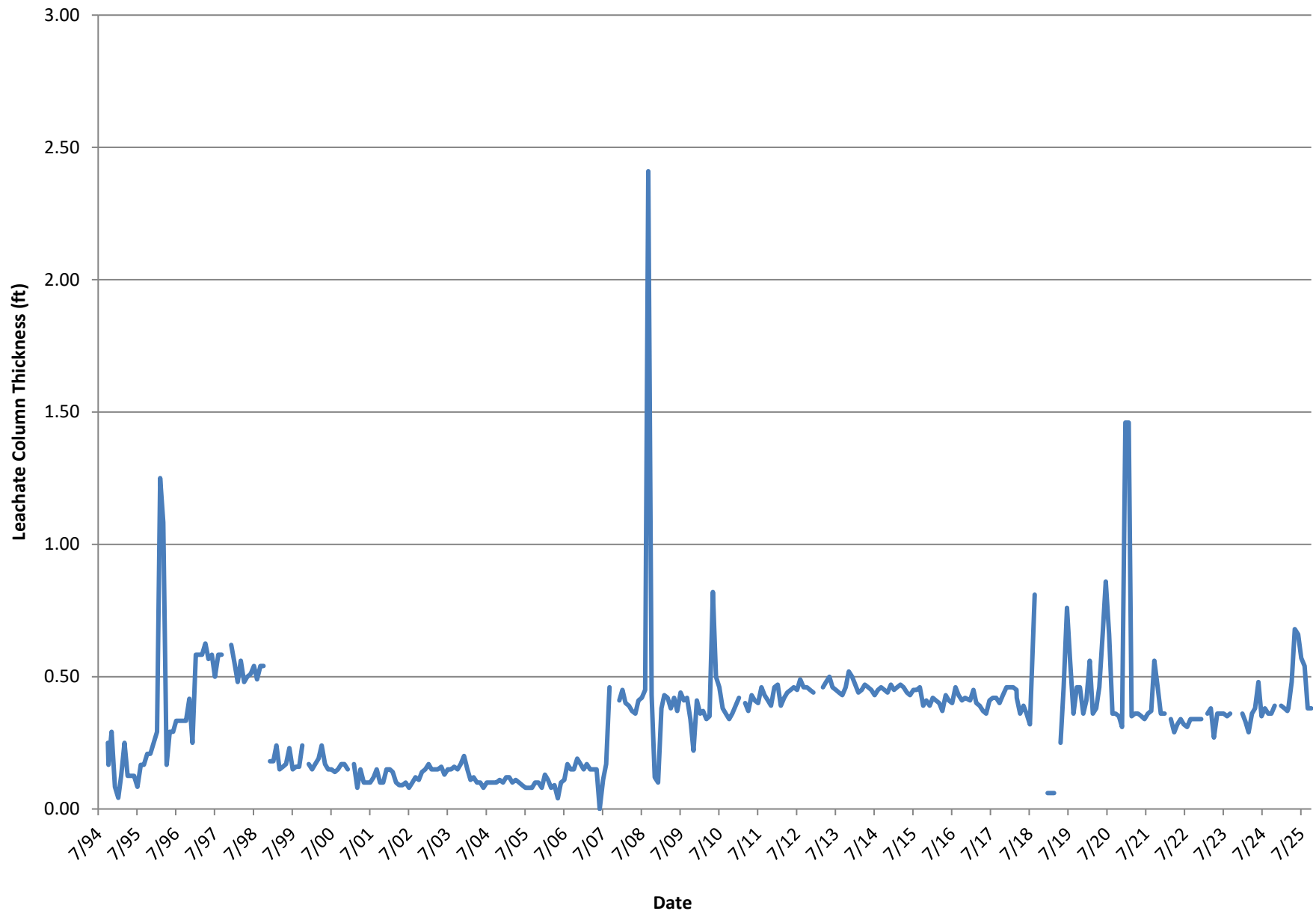
Date	Cell 1		Cell 2		Cell 3		Cell 4		Cell 5		Cell 6		Cells 7A, 7B, & 7C
	LW-A (D)	LW-B (U)	LW-C (D)	LW-D (U)	LW-E (D)	LW-F (U)	LW-G (D)	LW-H (U)	LW-I (D)	LW-J (U)	LW-K (D)	LW-L (U)	
Well Depth (ft) ¹	19.26	10.06	22.79	20.08	26.91	24.51	41.51	36.55	18.89	33.86	19.44	26.50	16.94
1/18	0.46	0.00	2.20	2.08	0.93	0.33	F	4.55	1.79	7.46	NR	11.88	0.00
2/18	0.46	0.00	1.03	2.19	0.73	0.25	F	5.17	0.64	7.88	NR	11.94	0.00
3/18	0.45	0.00	0.41	2.67	0.13	0.15	3.77	5.65	0.00	8.37	NR	11.04	0.00
4/18	0.42	0.00	0.39	2.59	0.07	0.12	2.75	5.59	0.00	8.31	NR	11.04	0.00
5/18	0.36	0.00	0.33	2.50	0.00	0.07	2.68	5.51	0.00	7.87	NR	10.54	0.00
6/18	0.39	0.00	0.39	2.54	0.03	0.11	2.71	5.61	0.00	7.91	NR	10.61	0.00
7/18	0.36	0.00	0.36	2.49	0.02	0.06	2.63	5.55	0.00	7.86	NR	10.56	0.00
8/18	0.32	0.00	0.37	2.44	0.00	0.04	2.59	4.47	0.00	7.15	NR	NR	0.00
9/18	0.81	0.00	0.05	3.61	E	0.06	3.26	Dry	0.09	4.25	NR	22.35	0.00
10/18	Dry	0.00	Dry	Dry	0.03	Dry	5.11	0.19	Dry	4.18	NR	19.91	0.00
11/18	Dry	0.00	Dry	Dry	0.03	Dry	F	0.17	Dry	4.17	NR	19.94	0.00
12/18	Dry	0.00	Dry	Dry	0.02	Dry	F	Dry	Dry	7.17	NR	19.92	0.00
1/19	0.06	0.00	F	F	E	1.81	7.61	0.30	1.36	8.23	NR	F	0.00
2/19	0.06	0.00	F	F	E	2.01	7.81	0.30	1.61	8.26	NR	F	0.00
3/19	0.06	0.00	1.49	2.67	0.01	2.41	7.41	0.15	0.09	3.12	NR	19.90	0.00
4/19	E	0.00	1.49	2.58	3.01	1.91	10.01	9.05	2.19	9.26	NR	22.60	0.00
5/19	0.25	0.00	2.74	2.88	NR	NR	NR	NR	NR	NR	NR	NR	0.00
6/19	0.46	0.00	2.89	2.38	2.56	1.61	33.16	3.65	3.19	8.16	NR	23.60	0.00
7/19	0.76	0.00	3.59	2.58	2.79	1.41	30.31	3.35	3.49	6.56	NR	23.38	0.00
8/19	0.56	0.00	0.69	1.38	1.71	1.61	31.91	3.65	7.19	7.51	NR	19.90	0.00
9/19	0.36	0.00	0.49	2.38	1.71	1.81	9.91	3.55	3.19	7.46	NR	21.50	0.00
10/19	0.46	0.00	0.49	2.48	1.61	1.71	9.81	2.60	3.44	7.96	NR	22.91	0.00
11/19	0.46	0.00	0.79	2.58	2.31	1.71	9.39	2.95	3.39	7.76	NR	22.88	0.00
12/19	0.36	0.00	0.79	2.68	3.61	1.71	9.06	3.15	3.27	7.63	NR	22.76	0.00
1/20	0.41	0.00	0.69	3.38	1.42	1.41	16.41	3.65	3.24	7.68	NR	22.58	0.00
2/20	0.56	0.00	F	2.34	1.68	1.55	14.01	3.31	3.07	7.18	NR	20.64	0.00
3/20	0.36	0.00	0.59	2.30	1.51	1.53	13.81	3.45	3.00	7.96	NR	22.40	0.00
4/20	0.38	0.00	0.59	2.33	1.51	1.57	14.41	3.45	2.79	7.76	NR	22.29	0.00
5/20	0.46	0.00	0.54	2.38	1.51	1.61	14.01	3.35	2.19	7.08	NR	22.15	0.00
6/20	0.66	0.00	0.44	2.38	1.51	1.61	14.41	3.15	2.29	7.16	NR	22.10	0.00
7/20	0.86	0.00	0.34	2.38	1.48	1.61	31.56	3.05	2.19	7.21	NR	21.55	0.00
8/20	0.66	0.00	0.53	2.47	1.35	1.63	12.11	3.44	2.19	7.17	NR	21.35	0.00
9/20	0.36	0.00	0.46	2.44	1.31	1.68	10.18	3.57	2.79	7.12	NR	20.56	0.00
10/20	0.36	0.00	0.42	2.37	1.31	1.62	9.91	3.55	2.89	7.15	NR	20.50	0.00
11/20	0.35	0.00	0.39	2.28	1.31	1.61	9.61	3.45	2.89	7.16	NR	20.50	0.00
12/20	0.31	0.00	0.33	2.28	1.31	1.61	8.81	3.15	3.08	7.16	NR	20.50	0.00
1/21	1.46	0.00	0.35	2.28	1.31	1.61	8.81	3.25	3.08	7.16	NR	20.50	0.00
2/21	1.46	0.00	0.35	2.28	1.31	1.61	8.81	3.25	3.08	7.16	NR	20.50	0.00
3/21	0.35	0.00	0.39	2.12	1.31	1.71	9.50	3.85	3.07	7.06	NR	21.00	0.00
4/21	0.36	0.00	0.29	2.10	1.51	1.70	16.11	4.04	2.94	6.93	NR	21.60	0.00
5/21	0.36	0.00	0.30	2.11	1.41	1.63	16.41	4.04	2.88	6.86	NR	21.00	0.00
6/21	0.35	0.00	0.30	2.12	1.32	1.61	17.41	4.06	2.72	6.36	NR	20.40	0.00
7/21	0.34	0.00	0.30	2.13	1.28	1.61	16.85	3.05	2.71	6.07	NR	20.40	0.00
8/21	0.36	0.00	0.30	2.12	1.29	1.61	16.89	3.05	2.71	6.05	NR	20.40	0.00
9/21	0.37	0.00	0.32	2.17	1.32	1.63	16.63	3.10	2.73	6.07	NR	20.40	0.00
10/21	0.56	0.00	0.35	2.23	1.36	1.69	13.70	3.13	2.80	6.14	NR	21.90	0.00
11/21	0.46	0.00	0.37	2.28	1.41	1.70	12.66	3.10	2.84	6.14	NR	23.50	0.00
12/21	0.36	0.00	0.19	2.33	1.21	2.31	18.34	3.75	2.88	6.56	NR	22.10	0.00
1/22	0.36	0.00	0.19	2.33	1.21	2.31	18.34	3.75	2.79	6.56	NR	22.10	0.00
2/22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
3/22	0.34	0.00	0.21	2.28	1.18	1.74	17.63	4.43	2.64	7.06	NR	23.36	0.00
4/22	0.29	0.00	0.23	2.16	1.16	1.60	17.20	5.25	2.49	8.16	NR	23.85	0.00
5/22	0.32	0.00	0.20	1.75	1.17	1.70	12.59	4.11	2.48	7.36	NR	23.17	0.00
6/22	0.34	0.00	0.25	1.17	1.47	1.67	8.41	2.83	2.42	6.35	NR	20.78	0.00
7/22	0.32	0.00	0.23	1.13	1.47	1.68	7.61	2.82	2.41	6.32	NR	20.61	0.00
8/22	0.31	0.00	0.28	1.16	1.49	1.72	7.82	2.76	2.47	6.27	NR	20.60	0.00
9/22	0.34	0.00	0.25	2.28	4.08	1.66	7.71	2.75	2.49	6.26	NR	20.50	0.00
10/22	0.34	0.00	0.27	2.28	1.68	1.67	7.60	2.71	2.46	7.36	NR	20.50	0.00
11/22	0.34	0.00	0.28	2.19	1.01	1.68	6.82	2.65	2.44	7.96	NR	20.50	0.00
12/22	0.34	0.00	0.26	2.20	1.02	1.68	6.75	2.63	2.43	7.68	NR	20.50	0.00
1/23	0.34	0.00	0.19	2.23	1.00	1.67	6.76	2.64	2.44	7.67	NR	20.50	0.00
2/23	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NR	NM	NM
3/23	0.36	0.00	0.14	2.08	1.03	0.91	8.96	2.78	2.59	7.65	NR	21.00	0.00
4/23	0.38	0.00	0.00	1.98	1.07	Dry	14.47	3.22	2.85	7.58	NR	23.90	0.00
5/23	0.27	0.00	0.09	2.08	2.86	Dry	13.85	2.22	2.77	7.47	NR	20.90	0.00
6/23	0.36	0.00	0.19	2.08	1.03	1.18	13.49	0.89	2.65	6.31	NR	20.50	0.00
7/23	0.36	0.00	0.18	2.14	2.88	1.57	13.06	Dry	2.15	5.90	NR	20.50	0.00
8/23	0.36	0.00	0.20	2.19	1.03	1.57	13.00	Dry	2.14	5.96	NR	20.50	0.00
9/23	0.35	0.00	0.19	2.28	0.94	1.58	11.95	0.87	2.27	5.98	NR	20.50	0.00
10/23	0.36	0.00	0.21	2.31	0.77	1.58	9.59	2.68	2.26	6.02	NR	21.85	0.00
11/23	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.00
12/23	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.00
1/24	0.36	0.00	0.12	2.09	0.62	1.62	9.46	2.60	2.34	7.20	NR	20.40	0.00
2/24	0.33	0.00	0.12	2.07	0.53	1.50	8.83	2.57	2.28	5.93	NR	20.40	0.00
3/24	0.29	0.00	0.05	2.07	0.54	1.50	8.83	2.56	2.32	5.96	NR	20.40	0.00
4/24	0.36	0.00	0.00	2.10	0.70	1.49	8.53	2.81	2.22	6.36	NR	21.00	0.00
5/24	0.38	0.00	0.07	2.13	0.73	1.46	8.37	2.90	2.19	6.80	NR	24.40	0.00
6/24	0.48	0.00	0.13	2.10	0.61	1.46	7.69	2.77	2.17	5.06	NR	22.38	0.00
7/24	0.35	0.00	0.19	2.17	0.56	1.51	7.41	2.75	2.11	5.08	NR	21.50	0.00
8/24	0.38	0.00	0.25	2.28	0.49	1.61	7.50	2.70	2.08	5.96	NR	20.40	0.00
9/24	0.36	0.00	0.23	2.36	0.51	1.67	7.47	2.75	2.09	5.92	NR	20.40	0.00
10/24	0.36	0.00	0.44	2.23	0.47	1.53	7.47	2.73	2.09	5.84	NR	20.40	0.00
11/24	0.39	0.00	0.44	2.30	0.41	1.68	17.57	2.85	2.09	6.16	NR	22.30	0.00
12/24	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1/25	0.39	0.00	0.19	2.21	0.42	1.61	14.93	2.83	2.81	6.18	NR	20.39	0.00
2/25	0.38	0.00	0.21	2.26	0.47	1.62	14.96	2.85	2.80	6.16	NR	20.38	0.00
3/25	0.37	0.00	0.19	2.26	0.46	1.59	14.94	2.83	2.80	6.26	NR	20.38	0.00
4/25	0.38	0.00	0.00	2.28	0.49	1.63	14.93	2.87	2.19	6.14	NR	20.70	0.00
5/25	0.48	0.00	0.29	2.33	0.86	1.61	14.71	2.89	2.14	6.26	NR	21.10	0.00
6/25	0.68	0.00	0.39	2.40	0.96	1.51	15.56	2.96	1.99	6.41	NR	22.00	0.00
7/25	0.66	0.00	0.31	2.38	0.86	1.63	15.51	2.93	1.97	6.16	NR	21.50	0.00
8/25	0.57	0.00	0.29	2.37	1.02	1.61	11.96	3.05	2.09	6.86	NR	20.90	0.00
9/25	0.54	0.00	0.33	2.49	0.81	1.61	10.26	3.05	1.89	6.43	NR	20.38	0.00

Attachment A
Historical Leachate Column Thicknesses
Sac County Sanitary Landfill
Permit No. 81-SDP-01-75C

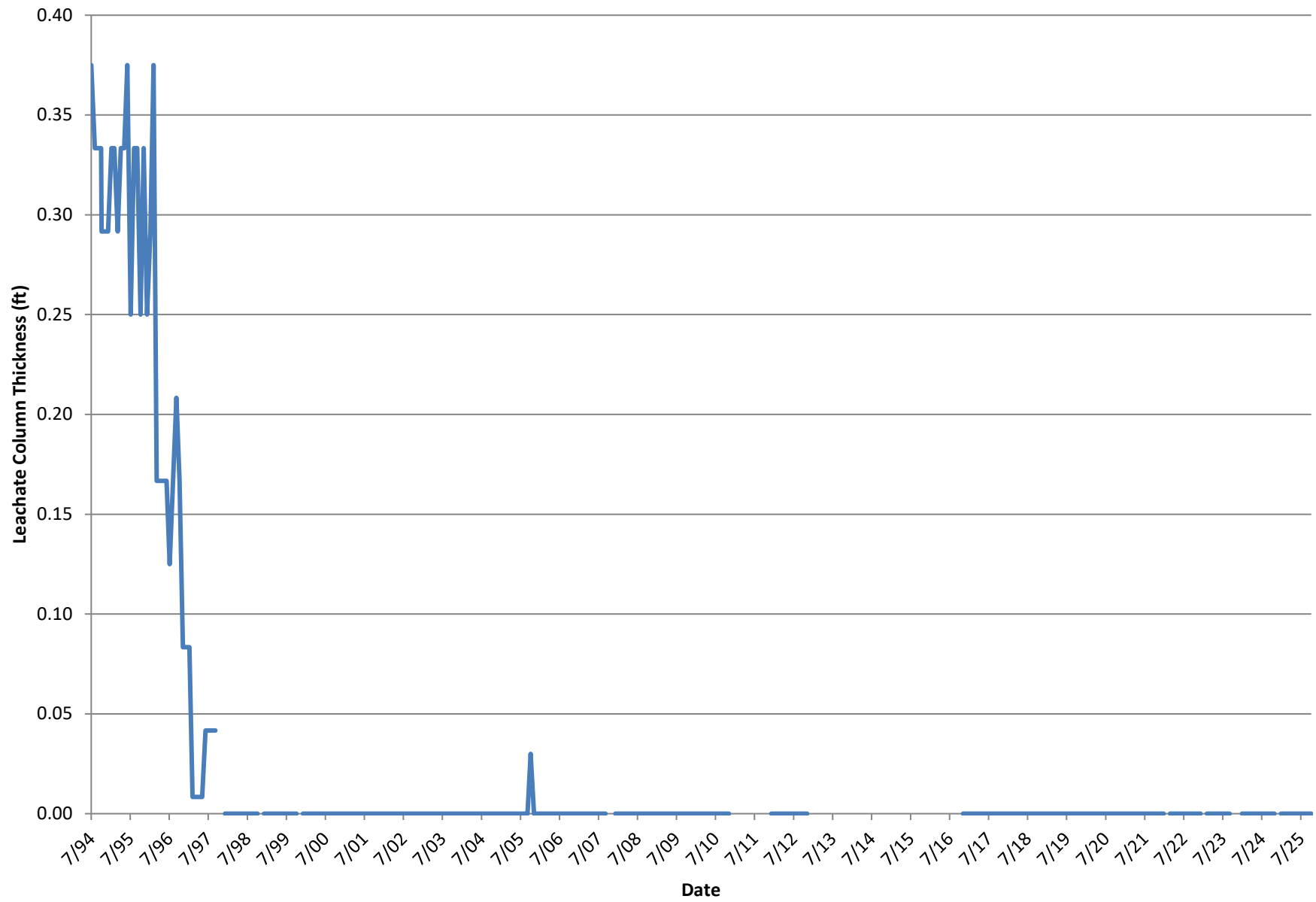
Date	Cell 1		Cell 2		Cell 3		Cell 4		Cell 5		Cell 6		Cells 7A, 7B, & 7C
	LW-A (D)	LW-B (U)	LW-C (D)	LW-D (U)	LW-E (D)	LW-F (U)	LW-G (D)	LW-H (U)	LW-I (D)	LW-J (U)	LW-K (D)	LW-L (U)	
Well Depth (ft) ¹	19.26	10.06	22.79	20.08	26.91	24.51	41.51	36.55	18.89	33.86	19.44	26.50	16.94
10/25	0.38	0.00	0.35	2.32	0.72	1.52	8.31	3.15	1.89	6.28	NR	20.38	0.00
11/25	0.38	0.00	0.33	2.37	0.68	1.58	8.06	3.16	1.89	6.25	NR	20.38	0.00

Notes:
¹ Well depth checked on November 23, 1998 and updated in 2007
U - Upgradient
D - Downgradient
NI - Not Installed
NR - Not Reported
NM - Not Measured
F - Frozen; monitoring point was frozen and unable to be measured.
E - Measurement Error

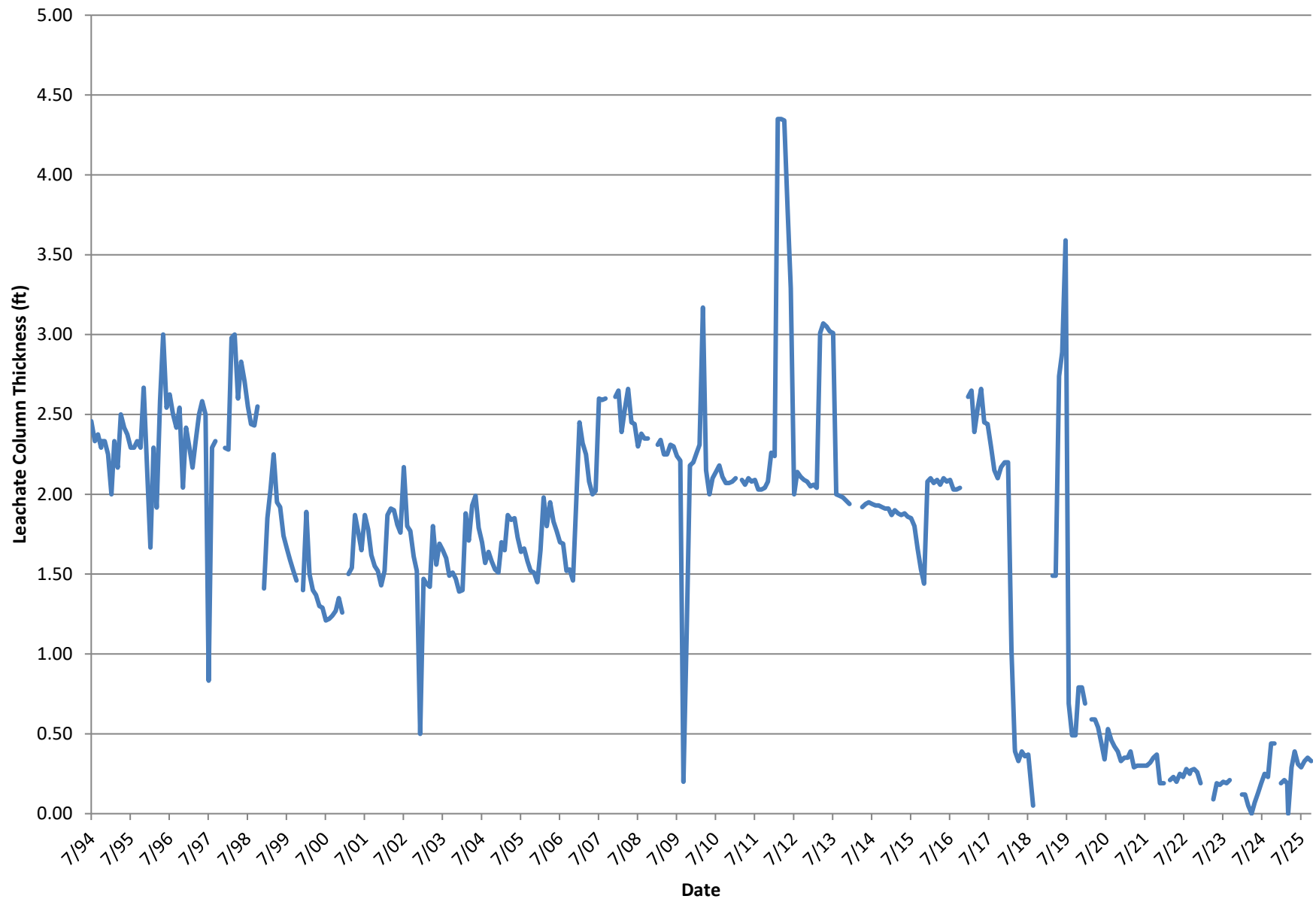
LW-A



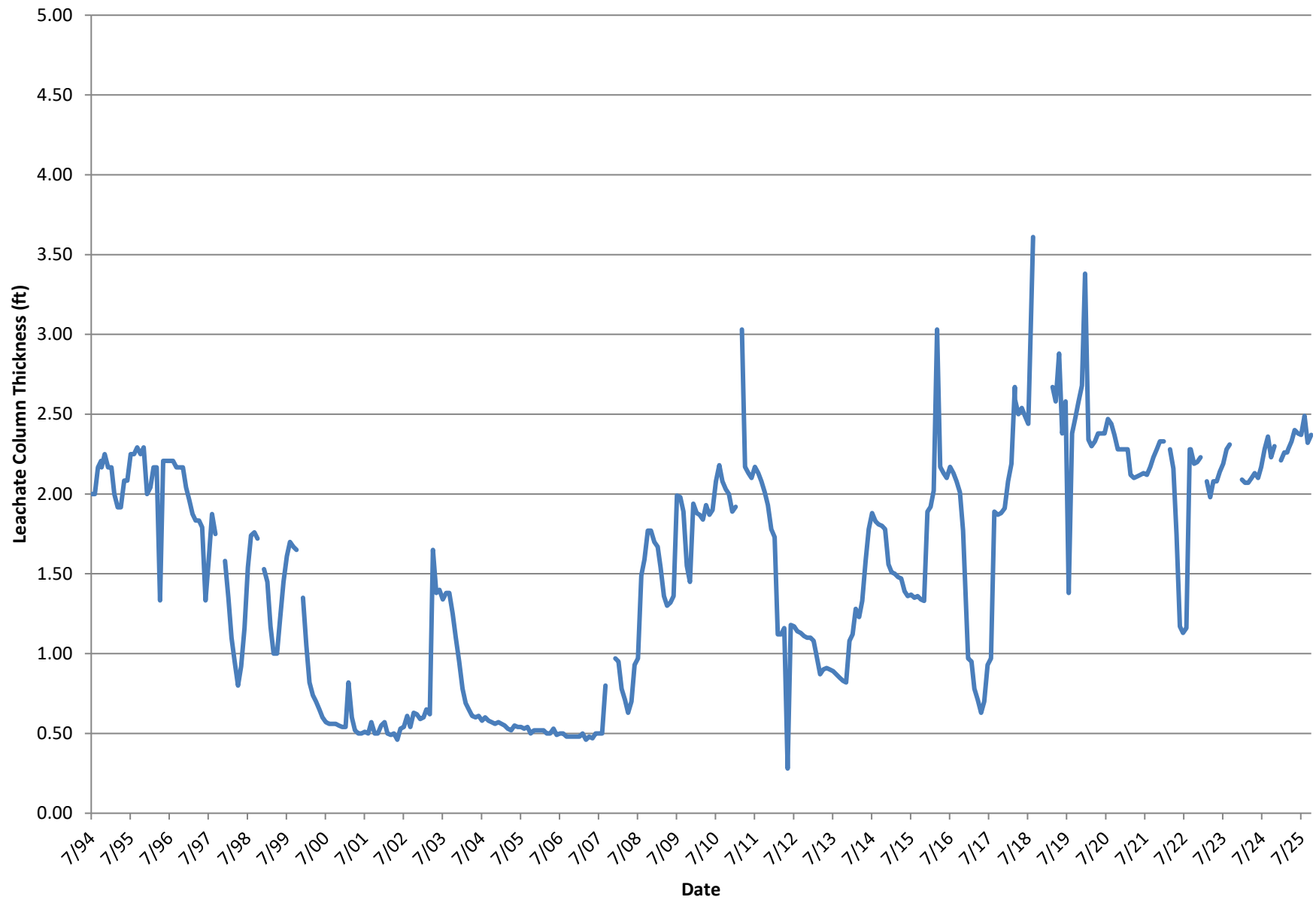
LW-B



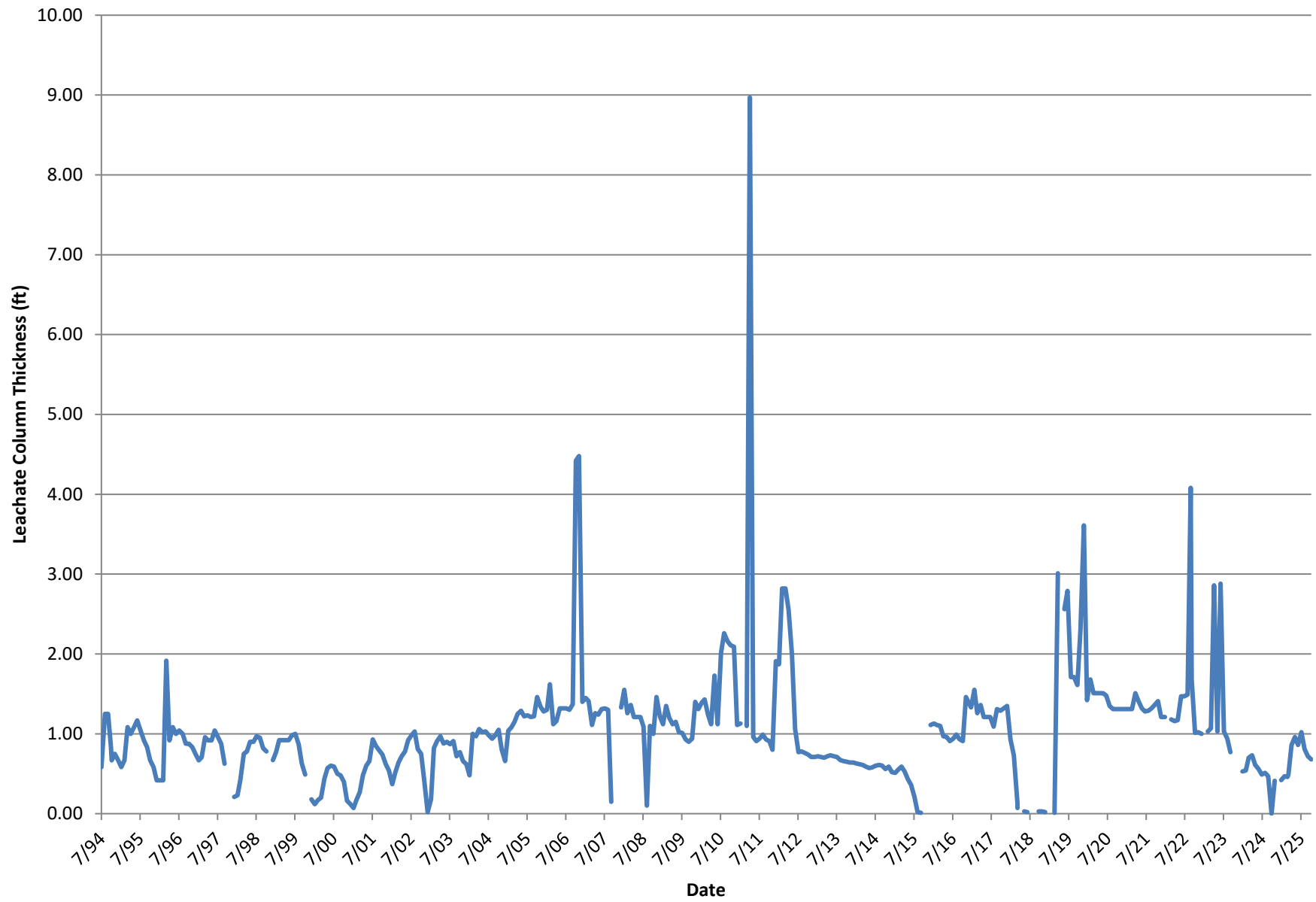
LW-C



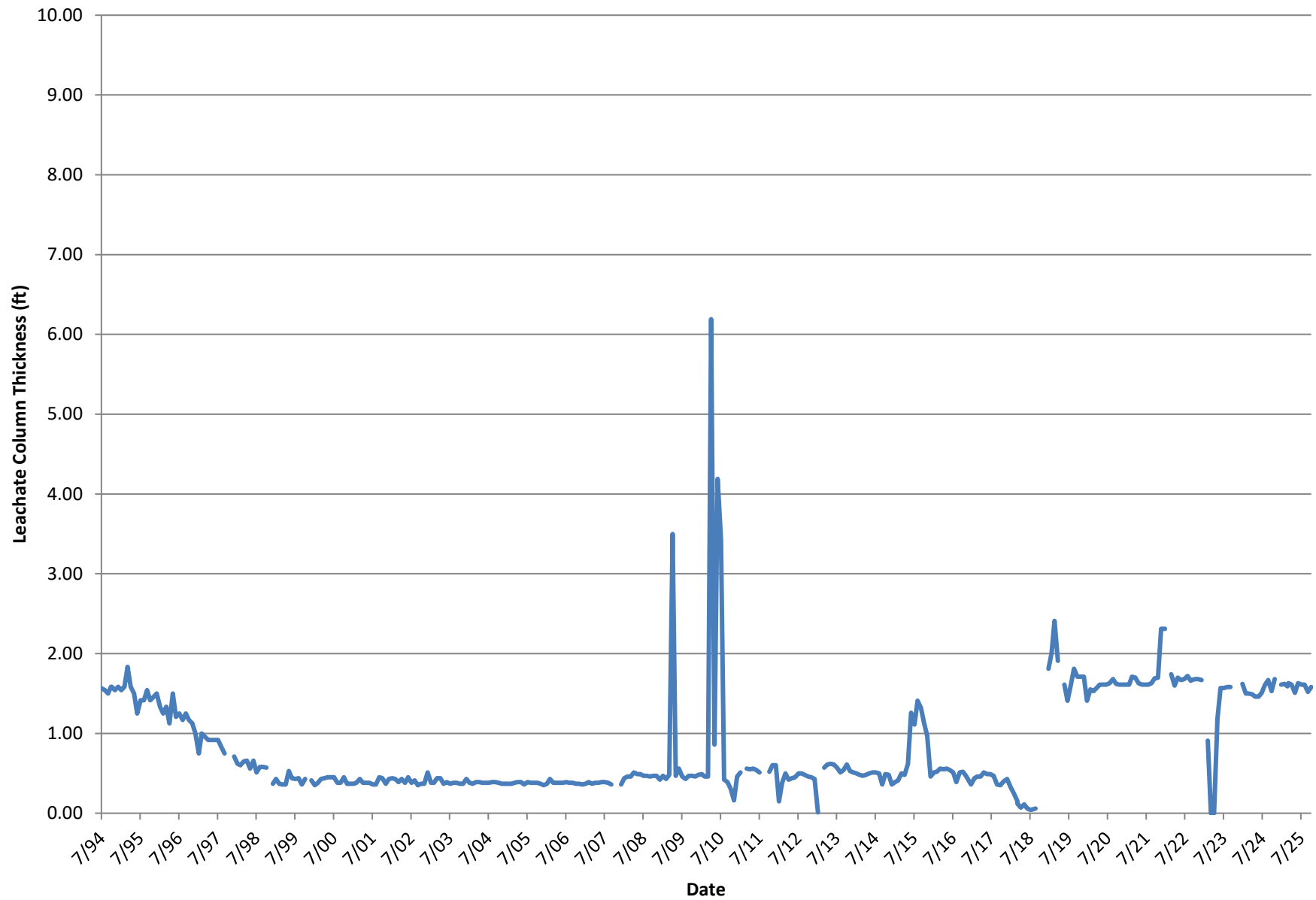
LW-D



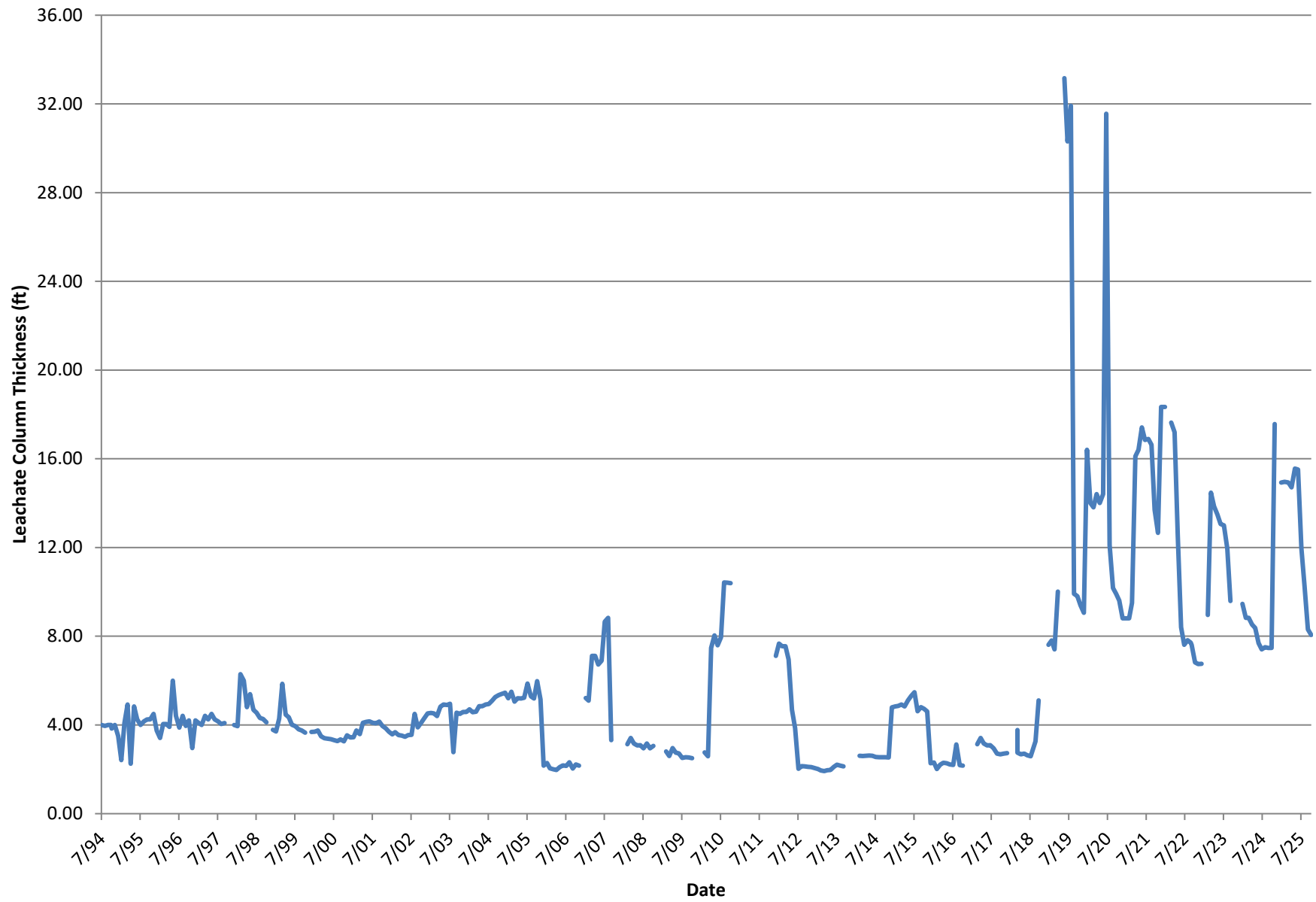
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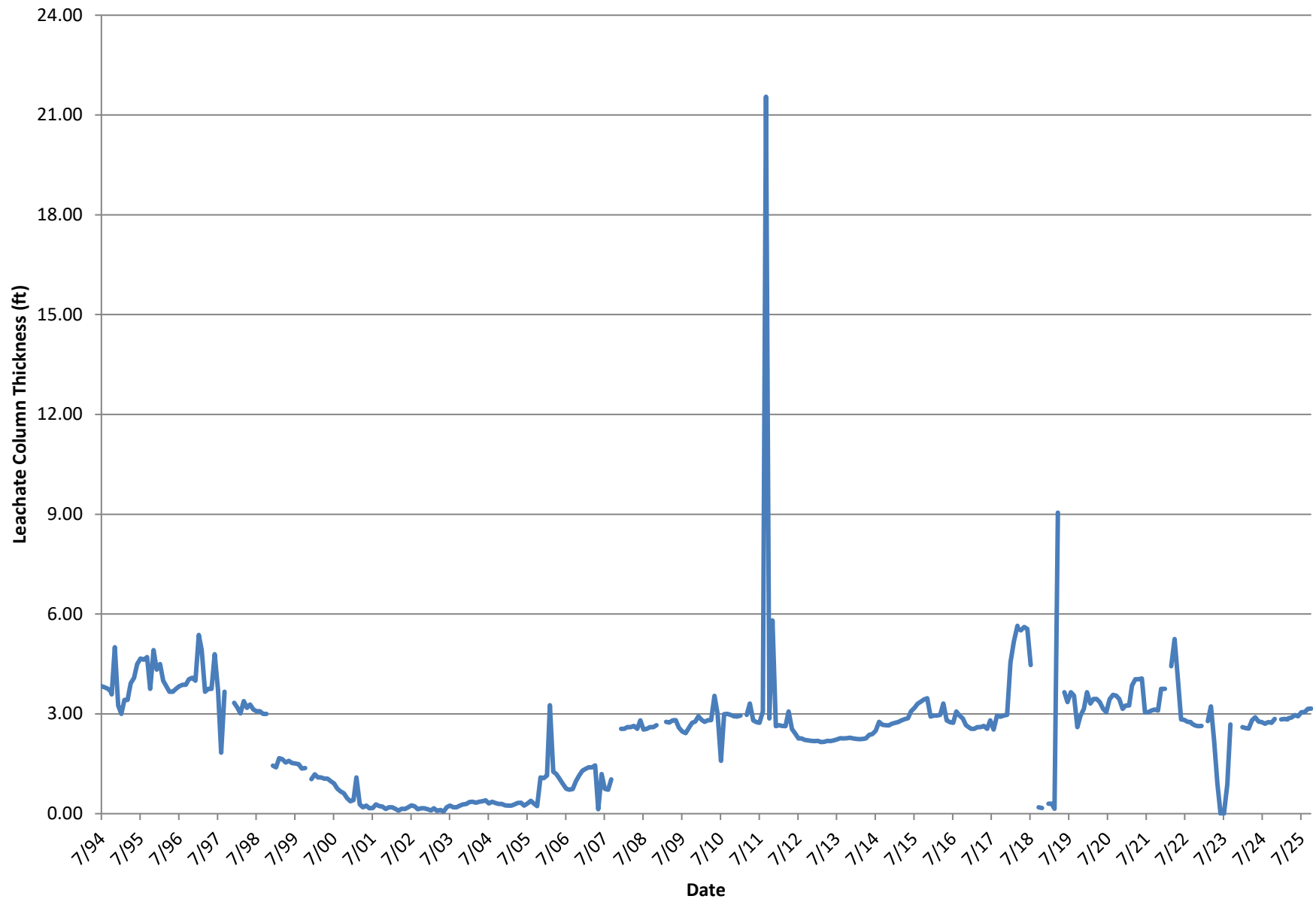
LW-F



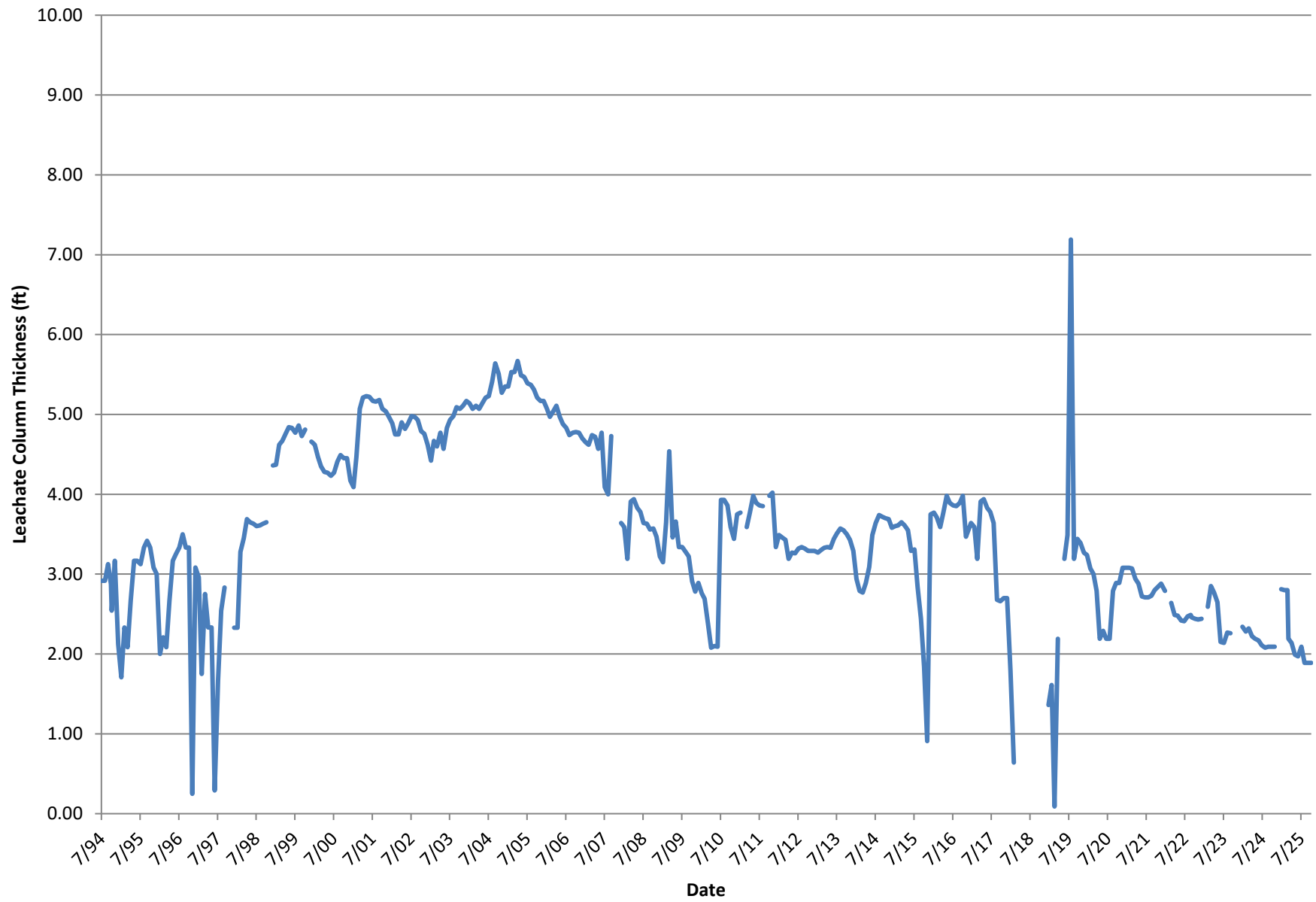
LW-G



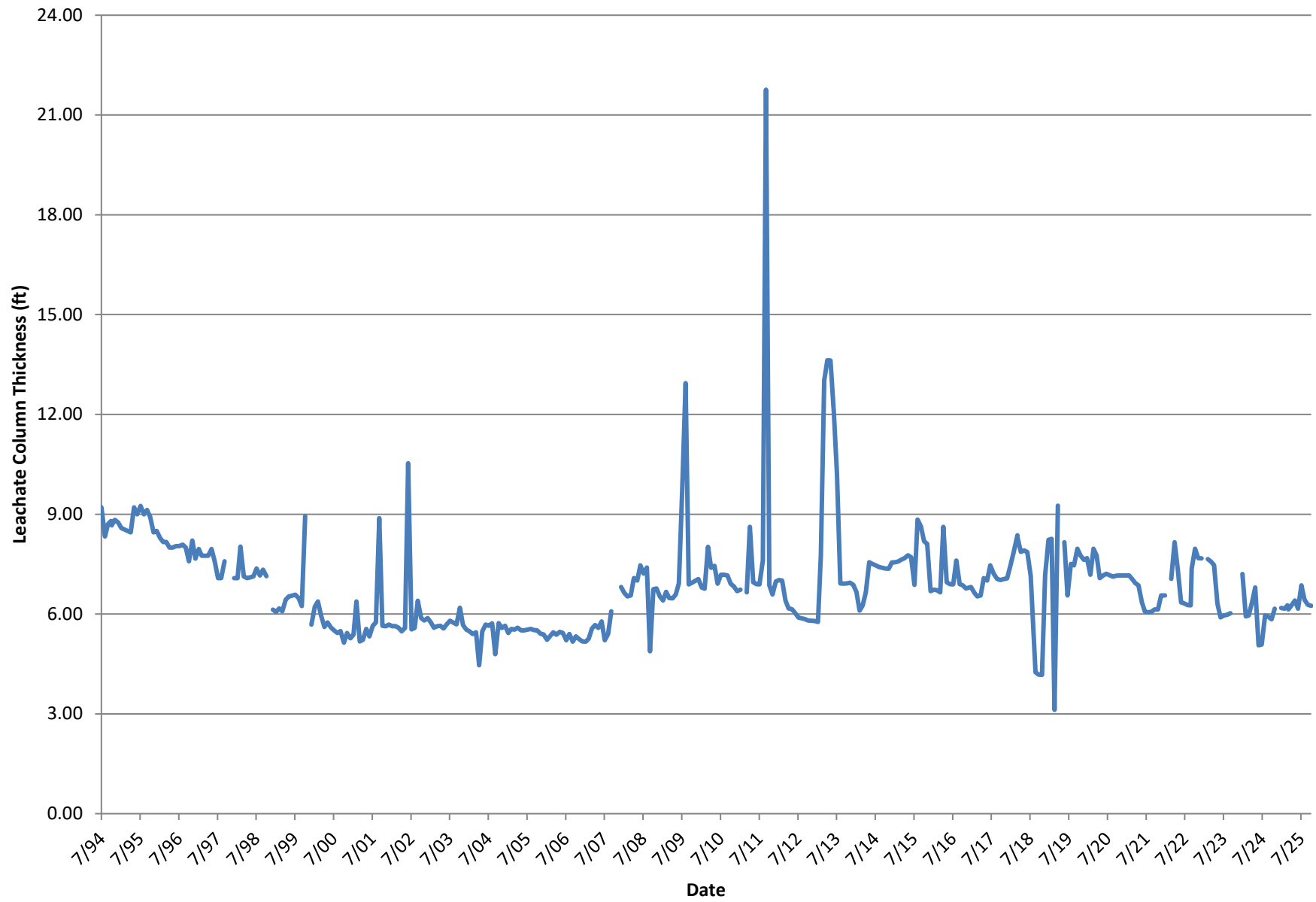
LW-H



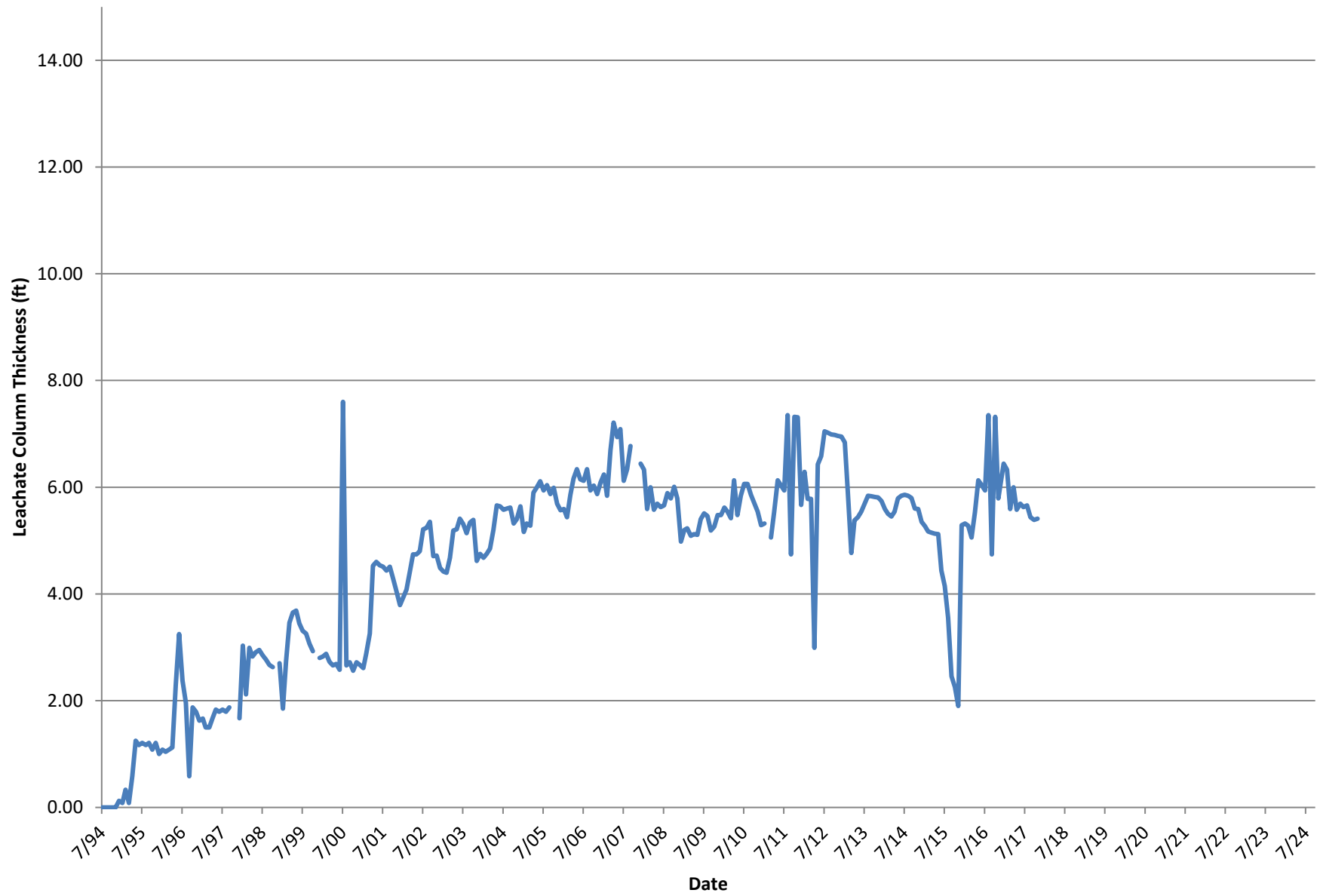
LW-I



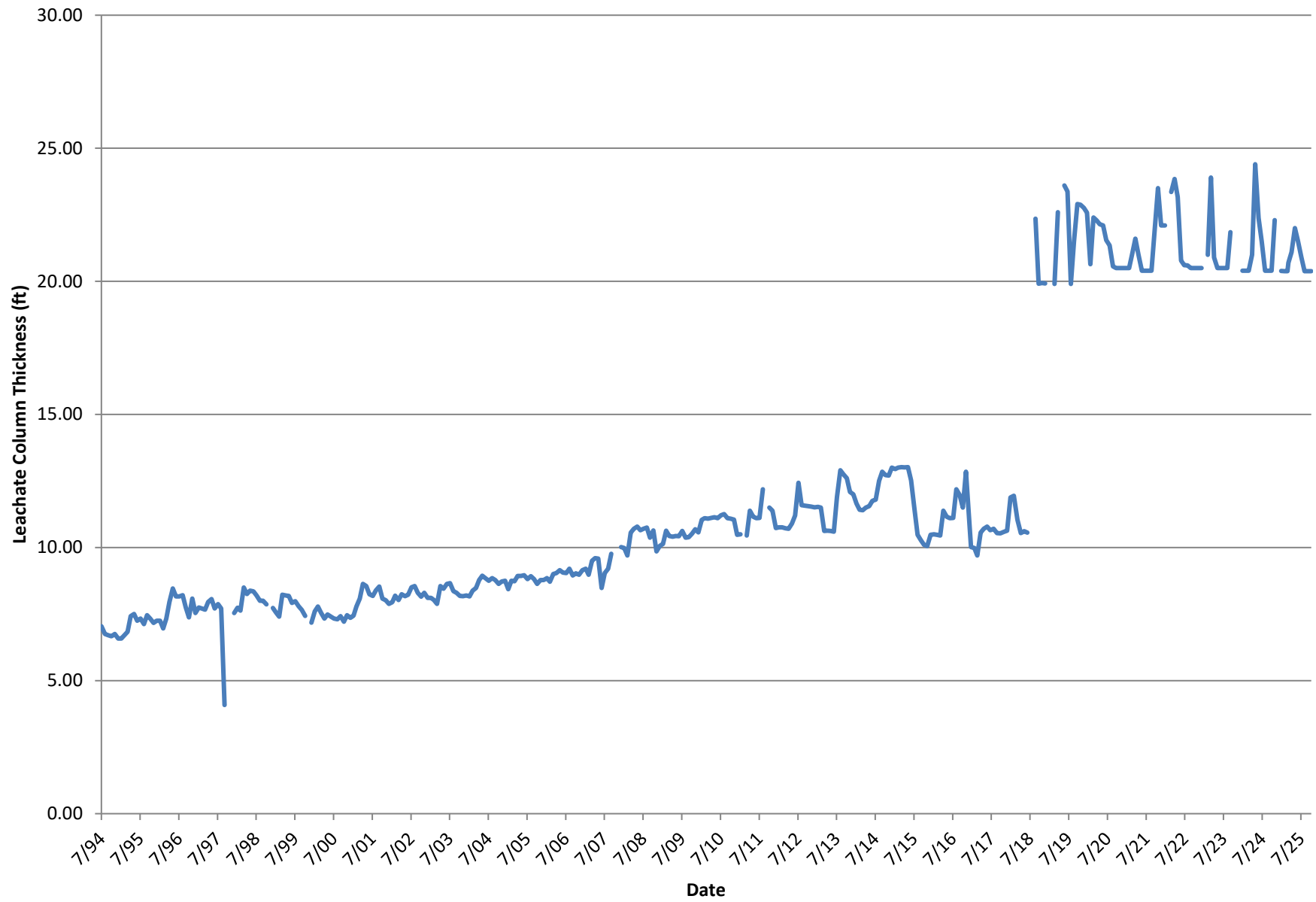
LW-J



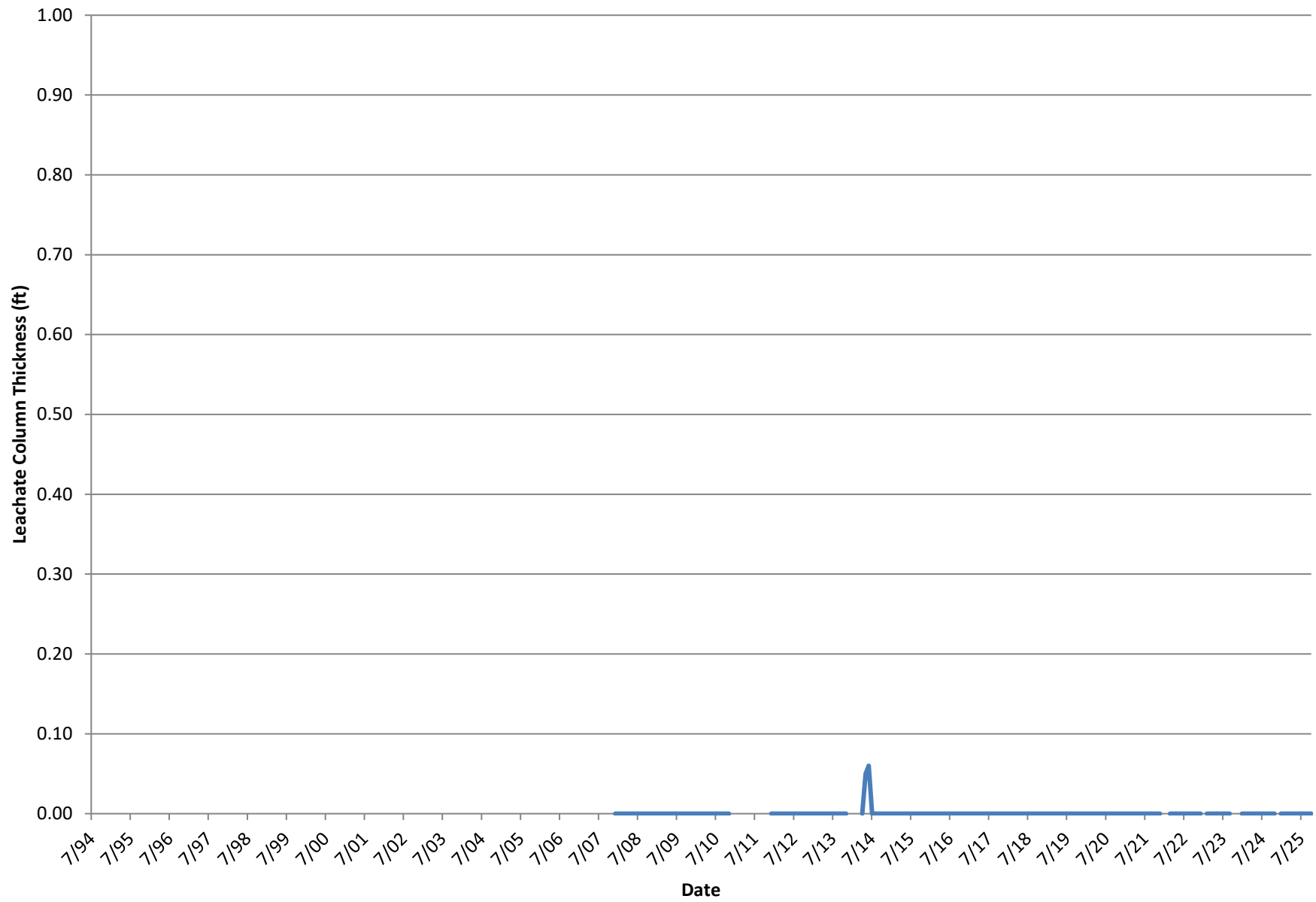
LW-K



LW-L



LM-7A



Attachment B

Leachate Quality Testing Results

ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

Sac County LF Leachate

JOB NUMBER

310-312108-1

Eurofins Cedar Falls

Job Notes

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

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Case Narrative

Client: SCS Engineers
Project: Sac County LF Leachate

Job ID: 310-312108-1

Job ID: 310-312108-1

Eurofins Cedar Falls

Job Narrative 310-312108-1

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

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

Receipt

The sample was received on 7/30/2025 8:25 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.3°C and 1.3°C.

GC/MS VOA

Method 624.1_PREC: The continuing calibration verification (CCV) associated with batch 310-462332 recovered above the upper control limit for Chloroethane (172%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 310-462332/4).

Method 624.1_PREC: The laboratory control sample (LCS) for analytical batch 310-462332 recovered outside control limits for the following analytes: Vinyl chloride, Chloroethane and Bromomethane . 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.

GC/MS Semi VOA

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

PCBs

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 200.8_CWA: The laboratory control sample (LCS) for preparation batch 310-462419 and analytical batch 310-463027 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

Method 3500_CR_B - Dissolved: The following sample was received outside of holding time: Leachate (310-312108-1).

Method SM5210B_Calc: The glucose-glutamic acid standard (LCS) recovered outside the recovery limits specified in the method in batch 310-462055. The method holding time had expired, therefore the analysis was not repeated. The data was qualified and reported.

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: Sac County LF Leachate

Job ID: 310-312108-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
310-312108-1	Leachate	Water	07/29/25 07:15	07/30/25 08:25	Iowa

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

Detection Summary

Client: SCS Engineers
Project/Site: Sac County LF Leachate

Job ID: 310-312108-1

Client Sample ID: Leachate

Lab Sample ID: 310-312108-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.659	J	1.00	0.430	ug/L	1		624.1	Total/NA
Arsenic	0.00824		0.00200	0.000530	mg/L	1		200.8	Total/NA
Barium	0.0368		0.00200	0.000660	mg/L	1		200.8	Total/NA
Iron	0.588		0.100	0.0500	mg/L	1		200.8	Total/NA
Lead	0.00135		0.000500	0.000330	mg/L	1		200.8	Total/NA
Potassium	26.3		0.500	0.170	mg/L	1		200.8	Total/NA
Nickel	0.0187		0.00500	0.00230	mg/L	1		200.8	Total/NA
Ammonia	1.98		0.500	0.210	mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	7.86		5.00	3.10	mg/L	1		351.2	Total/NA
Total Suspended Solids	45.0		15.0	10.5	mg/L	1		I-3765-85	Total/NA
Total Dissolved Solids	540		250	180	mg/L	1		SM 2540C	Total/NA
pH	9.3	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Biochemical Oxygen Demand	15.9	*-	3.00	3.00	mg/L	1		SM 5210B	Total/NA
Chemical Oxygen Demand	136		25.0	23.0	mg/L	5		SM 5220D	Total/NA
Total Organic Carbon	50.9		40.0	20.0	mg/L	40		SM 5310C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County LF Leachate

Job ID: 310-312108-1

Client Sample ID: Leachate

Lab Sample ID: 310-312108-1

Date Collected: 07/29/25 07:15

Matrix: Water

Date Received: 07/30/25 08:25

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			08/01/25 17:45	1
1,1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			08/01/25 17:45	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			08/01/25 17:45	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			08/01/25 17:45	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			08/01/25 17:45	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			08/01/25 17:45	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			08/01/25 17:45	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			08/01/25 17:45	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			08/01/25 17:45	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			08/01/25 17:45	1
1,3-Dichloropropene, Total	<5.00		5.00	0.560	ug/L			08/01/25 17:45	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			08/01/25 17:45	1
2-Chloroethyl vinyl ether	<2.00		2.00	1.70	ug/L			08/01/25 17:45	1
Acrolein	<10.0		10.0	3.60	ug/L			08/01/25 17:45	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			08/01/25 17:45	1
Benzene	<0.500		0.500	0.220	ug/L			08/01/25 17:45	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			08/01/25 17:45	1
Bromoform	<5.00		5.00	0.780	ug/L			08/01/25 17:45	1
Bromomethane	<4.00	*+	4.00	1.10	ug/L			08/01/25 17:45	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			08/01/25 17:45	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			08/01/25 17:45	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			08/01/25 17:45	1
Chloroethane	<4.00	*+	4.00	0.790	ug/L			08/01/25 17:45	1
Chloroform	<3.00		3.00	1.30	ug/L			08/01/25 17:45	1
Chloromethane	<3.00		3.00	0.610	ug/L			08/01/25 17:45	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			08/01/25 17:45	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			08/01/25 17:45	1
Naphthalene	<5.00		5.00	3.00	ug/L			08/01/25 17:45	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			08/01/25 17:45	1
Toluene	0.659	J	1.00	0.430	ug/L			08/01/25 17:45	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			08/01/25 17:45	1
Trichloroethene	<1.00		1.00	0.430	ug/L			08/01/25 17:45	1
Vinyl chloride	<1.00	*+	1.00	0.180	ug/L			08/01/25 17:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	111		76 - 130		08/01/25 17:45	1
Toluene-d8 (Surr)	97		80 - 120		08/01/25 17:45	1
4-Bromofluorobenzene (Surr)	102		80 - 120		08/01/25 17:45	1

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine	<9.43		9.43	0.708	ug/L		08/04/25 11:11	08/06/25 02:13	1
2,4,6-Trichlorophenol	<9.43		9.43	4.72	ug/L		08/04/25 11:11	08/06/25 02:13	1
2,4-Dichlorophenol	<9.43		9.43	0.802	ug/L		08/04/25 11:11	08/06/25 02:13	1
2,4-Dimethylphenol	<9.43		9.43	0.547	ug/L		08/04/25 11:11	08/06/25 02:13	1
2,4-Dinitrophenol	<18.9		18.9	12.3	ug/L		08/04/25 11:11	08/06/25 02:13	1
2,4-Dinitrotoluene	<9.43		9.43	6.04	ug/L		08/04/25 11:11	08/06/25 02:13	1
2,6-Dinitrotoluene	<9.43		9.43	0.491	ug/L		08/04/25 11:11	08/06/25 02:13	1
2-Chloronaphthalene	<9.43		9.43	0.604	ug/L		08/04/25 11:11	08/06/25 02:13	1
2-Chlorophenol	<9.43		9.43	0.509	ug/L		08/04/25 11:11	08/06/25 02:13	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Sac County LF Leachate

Job ID: 310-312108-1

Client Sample ID: Leachate

Lab Sample ID: 310-312108-1

Date Collected: 07/29/25 07:15

Matrix: Water

Date Received: 07/30/25 08:25

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	<9.43		9.43	6.42	ug/L		08/04/25 11:11	08/06/25 02:13	1
3,3'-Dichlorobenzidine	<9.43		9.43	1.32	ug/L		08/04/25 11:11	08/06/25 02:13	1
4,6-Dinitro-2-methylphenol	<9.43		9.43	6.51	ug/L		08/04/25 11:11	08/06/25 02:13	1
4-Bromophenyl phenyl ether	<9.43		9.43	0.660	ug/L		08/04/25 11:11	08/06/25 02:13	1
4-Chloro-3-methylphenol	<9.43		9.43	0.792	ug/L		08/04/25 11:11	08/06/25 02:13	1
4-Chlorophenyl phenyl ether	<9.43		9.43	0.651	ug/L		08/04/25 11:11	08/06/25 02:13	1
4-Nitrophenol	<9.43		9.43	7.17	ug/L		08/04/25 11:11	08/06/25 02:13	1
Acenaphthene	<9.43		9.43	0.604	ug/L		08/04/25 11:11	08/06/25 02:13	1
Acenaphthylene	<9.43		9.43	0.679	ug/L		08/04/25 11:11	08/06/25 02:13	1
Anthracene	<9.43		9.43	0.821	ug/L		08/04/25 11:11	08/06/25 02:13	1
Benzidine	<18.9		18.9	1.04	ug/L		08/04/25 11:11	08/06/25 02:13	1
Benzo[a]anthracene	<9.43		9.43	0.802	ug/L		08/04/25 11:11	08/06/25 02:13	1
Benzo[a]pyrene	<9.43		9.43	7.64	ug/L		08/04/25 11:11	08/06/25 02:13	1
Benzo[b]fluoranthene	<9.43		9.43	4.62	ug/L		08/04/25 11:11	08/06/25 02:13	1
Benzo[g,h,i]perylene	<9.43		9.43	5.94	ug/L		08/04/25 11:11	08/06/25 02:13	1
Benzo[k]fluoranthene	<9.43		9.43	2.08	ug/L		08/04/25 11:11	08/06/25 02:13	1
Bis(2-chloroethoxy)methane	<9.43		9.43	0.717	ug/L		08/04/25 11:11	08/06/25 02:13	1
Bis(2-chloroethyl)ether	<9.43		9.43	0.774	ug/L		08/04/25 11:11	08/06/25 02:13	1
bis (2-chloroisopropyl) ether	<9.43		9.43	0.509	ug/L		08/04/25 11:11	08/06/25 02:13	1
Bis(2-ethylhexyl) phthalate	<9.43		9.43	5.19	ug/L		08/04/25 11:11	08/06/25 02:13	1
Butyl benzyl phthalate	<9.43		9.43	5.09	ug/L		08/04/25 11:11	08/06/25 02:13	1
Chrysene	<9.43		9.43	0.821	ug/L		08/04/25 11:11	08/06/25 02:13	1
Dibenz(a,h)anthracene	<9.43		9.43	3.68	ug/L		08/04/25 11:11	08/06/25 02:13	1
Diethyl phthalate	<9.43		9.43	1.60	ug/L		08/04/25 11:11	08/06/25 02:13	1
Dimethyl phthalate	<9.43		9.43	0.943	ug/L		08/04/25 11:11	08/06/25 02:13	1
Di-n-butyl phthalate	<9.43		9.43	5.28	ug/L		08/04/25 11:11	08/06/25 02:13	1
Di-n-octyl phthalate	<18.9		18.9	6.60	ug/L		08/04/25 11:11	08/06/25 02:13	1
Fluoranthene	<9.43		9.43	1.60	ug/L		08/04/25 11:11	08/06/25 02:13	1
Fluorene	<9.43		9.43	0.745	ug/L		08/04/25 11:11	08/06/25 02:13	1
Hexachlorobenzene	<9.43		9.43	0.660	ug/L		08/04/25 11:11	08/06/25 02:13	1
Hexachlorobutadiene	<9.43		9.43	0.811	ug/L		08/04/25 11:11	08/06/25 02:13	1
Hexachlorocyclopentadiene	<9.43		9.43	4.81	ug/L		08/04/25 11:11	08/06/25 02:13	1
Hexachloroethane	<9.43		9.43	0.915	ug/L		08/04/25 11:11	08/06/25 02:13	1
Indeno[1,2,3-cd]pyrene	<9.43		9.43	3.96	ug/L		08/04/25 11:11	08/06/25 02:13	1
Isophorone	<9.43		9.43	0.877	ug/L		08/04/25 11:11	08/06/25 02:13	1
Nitrobenzene	<9.43		9.43	0.755	ug/L		08/04/25 11:11	08/06/25 02:13	1
N-Nitrosodimethylamine	<9.43		9.43	0.679	ug/L		08/04/25 11:11	08/06/25 02:13	1
N-Nitrosodi-n-propylamine	<9.43		9.43	0.868	ug/L		08/04/25 11:11	08/06/25 02:13	1
N-Nitrosodiphenylamine	<9.43		9.43	0.708	ug/L		08/04/25 11:11	08/06/25 02:13	1
Pentachlorophenol	<9.43		9.43	9.06	ug/L		08/04/25 11:11	08/06/25 02:13	1
Phenanthrene	<9.43		9.43	0.745	ug/L		08/04/25 11:11	08/06/25 02:13	1
Phenol	<9.43		9.43	1.04	ug/L		08/04/25 11:11	08/06/25 02:13	1
Pyrene	<9.43		9.43	0.745	ug/L		08/04/25 11:11	08/06/25 02:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	53		21 - 110				08/04/25 11:11	08/06/25 02:13	1
Phenol-d5 (Surr)	42		21 - 110				08/04/25 11:11	08/06/25 02:13	1
Nitrobenzene-d5 (Surr)	69		39 - 140				08/04/25 11:11	08/06/25 02:13	1
2-Fluorobiphenyl (Surr)	62		33 - 126				08/04/25 11:11	08/06/25 02:13	1
2,4,6-Tribromophenol (Surr)	74		20 - 144				08/04/25 11:11	08/06/25 02:13	1

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Client Sample Results

Client: SCS Engineers
Project/Site: Sac County LF Leachate

Job ID: 310-312108-1

Client Sample ID: Leachate

Lab Sample ID: 310-312108-1

Date Collected: 07/29/25 07:15

Matrix: Water

Date Received: 07/30/25 08:25

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	71		13 - 150	08/04/25 11:11	08/06/25 02:13	1

Method: EPA 608.3 - Organochlorine Pesticides in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0604		0.0604	0.0255	ug/L		08/05/25 13:13	08/12/25 19:00	1
4,4'-DDE	<0.0604		0.0604	0.0255	ug/L		08/05/25 13:13	08/12/25 19:00	1
4,4'-DDT	<0.0604		0.0604	0.0396	ug/L		08/05/25 13:13	08/12/25 19:00	1
Aldrin	<0.0604		0.0604	0.0302	ug/L		08/05/25 13:13	08/12/25 19:00	1
alpha-BHC	<0.0604		0.0604	0.0274	ug/L		08/05/25 13:13	08/12/25 19:00	1
beta-BHC	<0.0604		0.0604	0.0349	ug/L		08/05/25 13:13	08/12/25 19:00	1
Chlordane (technical)	<1.89		1.89	0.764	ug/L		08/05/25 13:13	08/12/25 19:00	1
delta-BHC	<0.0604		0.0604	0.0255	ug/L		08/05/25 13:13	08/12/25 19:00	1
Dieldrin	<0.0604		0.0604	0.0245	ug/L		08/05/25 13:13	08/12/25 19:00	1
Endosulfan I	<0.0604		0.0604	0.0311	ug/L		08/05/25 13:13	08/12/25 19:00	1
Endosulfan II	<0.0604		0.0604	0.0274	ug/L		08/05/25 13:13	08/12/25 19:00	1
Endosulfan sulfate	<0.0604		0.0604	0.0283	ug/L		08/05/25 13:13	08/12/25 19:00	1
Endrin	<0.0604		0.0604	0.0245	ug/L		08/05/25 13:13	08/12/25 19:00	1
Endrin aldehyde	<0.0604		0.0604	0.0274	ug/L		08/05/25 13:13	08/12/25 19:00	1
gamma-BHC (Lindane)	<0.0604		0.0604	0.0340	ug/L		08/05/25 13:13	08/12/25 19:00	1
Heptachlor	<0.0604		0.0604	0.0311	ug/L		08/05/25 13:13	08/12/25 19:00	1
Heptachlor epoxide	<0.0604		0.0604	0.0274	ug/L		08/05/25 13:13	08/12/25 19:00	1
Toxaphene	<1.89		1.89	0.651	ug/L		08/05/25 13:13	08/12/25 19:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	41		10 - 126	08/05/25 13:13	08/12/25 19:00	1
Tetrachloro-m-xylene	42		10 - 124	08/05/25 13:13	08/12/25 19:00	1

Method: EPA 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.755		0.755	0.151	ug/L		08/05/25 13:13	08/12/25 19:00	1
PCB-1221	<0.755		0.755	0.151	ug/L		08/05/25 13:13	08/12/25 19:00	1
PCB-1232	<0.755		0.755	0.151	ug/L		08/05/25 13:13	08/12/25 19:00	1
PCB-1242	<0.755		0.755	0.151	ug/L		08/05/25 13:13	08/12/25 19:00	1
PCB-1248	<0.755		0.755	0.104	ug/L		08/05/25 13:13	08/12/25 19:00	1
PCB-1254	<0.755		0.755	0.104	ug/L		08/05/25 13:13	08/12/25 19:00	1
PCB-1260	<0.755		0.755	0.104	ug/L		08/05/25 13:13	08/12/25 19:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	41		10 - 126	08/05/25 13:13	08/12/25 19:00	1
Tetrachloro-m-xylene	42		10 - 124	08/05/25 13:13	08/12/25 19:00	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00824		0.00200	0.000530	mg/L		08/04/25 09:30	08/07/25 19:28	1
Barium	0.0368		0.00200	0.000660	mg/L		08/04/25 09:30	08/07/25 19:28	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		08/04/25 09:30	08/07/25 19:28	1
Chromium	<0.00500		0.00500	0.00180	mg/L		08/04/25 09:30	08/07/25 19:28	1
Copper	<0.00500		0.00500	0.00320	mg/L		08/04/25 09:30	08/07/25 19:28	1
Iron	0.588		0.100	0.0500	mg/L		08/04/25 09:30	08/07/25 19:28	1
Lead	0.00135		0.000500	0.000330	mg/L		08/04/25 09:30	08/07/25 19:28	1

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Client Sample Results

Client: SCS Engineers
Project/Site: Sac County LF Leachate

Job ID: 310-312108-1

Client Sample ID: Leachate

Lab Sample ID: 310-312108-1

Date Collected: 07/29/25 07:15

Matrix: Water

Date Received: 07/30/25 08:25

Method: EPA 200.8 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	26.3		0.500	0.170	mg/L		08/04/25 09:30	08/07/25 19:28	1
Selenium	<0.00500		0.00500	0.00140	mg/L		08/04/25 09:30	08/07/25 19:28	1
Silver	<0.00100	*+	0.00100	0.000500	mg/L		08/04/25 09:30	08/07/25 19:28	1
Thallium	<0.00100		0.00100	0.000570	mg/L		08/04/25 09:30	08/08/25 15:24	1
Molybdenum	<0.00200		0.00200	0.00130	mg/L		08/04/25 09:30	08/07/25 19:28	1
Nickel	0.0187		0.00500	0.00230	mg/L		08/04/25 09:30	08/07/25 19:28	1
Zinc	<0.0200		0.0200	0.0130	mg/L		08/04/25 09:30	08/07/25 19:28	1

Method: EPA 245.2 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200	0.000110	mg/L		08/07/25 13:45	08/08/25 10:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (EPA 335.4)	<0.0100		0.0100	0.00350	mg/L		08/01/25 10:54	08/01/25 22:48	1
Ammonia (EPA 350.1)	1.98		0.500	0.210	mg/L		08/04/25 08:10	08/04/25 17:47	1
Total Kjeldahl Nitrogen (EPA 351.2)	7.86		5.00	3.10	mg/L		07/31/25 10:12	07/31/25 18:40	1
Total Suspended Solids (USGS I-3765-85)	45.0		15.0	10.5	mg/L			07/31/25 13:19	1
Total Dissolved Solids (SM 2540C)	540		250	180	mg/L			07/31/25 19:17	1
Biochemical Oxygen Demand (SM 5210B)	15.9	*-	3.00	3.00	mg/L			07/30/25 09:37	1
Chemical Oxygen Demand (SM 5220D)	136		25.0	23.0	mg/L			08/05/25 15:25	5
Total Organic Carbon (SM 5310C)	50.9		40.0	20.0	mg/L			08/01/25 03:39	40
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	9.3	HF	1.0	1.0	SU			07/30/25 11:56	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (VI) (SM 3500 CR B)	<0.0200	H H3	0.0200	0.00690	mg/L			07/30/25 09:46	1

Definitions/Glossary

Client: SCS Engineers
Project/Site: Sac County LF Leachate

Job ID: 310-312108-1

Qualifiers

GC/MS VOA

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.

Metals

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.

General Chemistry

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
H3	Sample was received and analyzed past holding time. This does not meet regulatory requirements.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

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: Sac County LF Leachate

Job ID: 310-312108-1

Method: 624.1 - Volatile Organic Compounds (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)
310-312108-1	Leachate	111	97	102
LCS 310-462332/6	Lab Control Sample	96	102	94
LCS 310-462332/7	Lab Control Sample	105	93	105
MB 310-462332/5	Method Blank	108	97	107
Surrogate Legend				
DBFM = Dibromofluoromethane (Surr)				
TOL = Toluene-d8 (Surr)				
BFB = 4-Bromofluorobenzene (Surr)				

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	2FP (21-110)	PHL (21-110)	NBZ (39-140)	FBP (33-126)	TBP (20-144)	TPHL (13-150)
310-312108-1	Leachate	53	42	69	62	74	71
LCS 310-462525/2-A	Lab Control Sample	67	52	80	84	101	94
LCSD 310-462525/3-A	Lab Control Sample Dup	65	51	82	86	112	98
MB 310-462525/1-A	Method Blank	63	50	80	86	91	98
Surrogate Legend							
2FP = 2-Fluorophenol (Surr)							
PHL = Phenol-d5 (Surr)							
NBZ = Nitrobenzene-d5 (Surr)							
FBP = 2-Fluorobiphenyl (Surr)							
TBP = 2,4,6-Tribromophenol (Surr)							
TPHL = Terphenyl-d14 (Surr)							

Method: 608.3 - Organochlorine Pesticides in Water

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCB1 (10-126)	TCX1 (10-124)
310-312108-1	Leachate	41	42
LCS 310-462680/4-A	Lab Control Sample	81	86
LCSD 310-462680/5-A	Lab Control Sample Dup	55	72
MB 310-462680/1-A	Method Blank	68	77
Surrogate Legend			
DCB = DCB Decachlorobiphenyl (Surr)			
TCX = Tetrachloro-m-xylene			

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCB1 (10-126)	TCX1 (10-124)
310-312108-1	Leachate	41	42
LCS 310-462680/2-A	Lab Control Sample	80	72

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Surrogate Summary

Client: SCS Engineers

Project/Site: Sac County LF Leachate

Job ID: 310-312108-1

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCB1 (10-126)	TCX1 (10-124)
LCSD 310-462680/3-A	Lab Control Sample Dup	50	65
MB 310-462680/1-A	Method Blank	68	77
Surrogate Legend			
DCB = DCB Decachlorobiphenyl (Surr)			
TCX = Tetrachloro-m-xylene			

QC Sample Results

Client: SCS Engineers
Project/Site: Sac County LF Leachate

Job ID: 310-312108-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 310-462332/5

Matrix: Water

Analysis Batch: 462332

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-Trichloroethane	<1.00		1.00	0.190	ug/L			08/01/25 11:05	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			08/01/25 11:05	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			08/01/25 11:05	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			08/01/25 11:05	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			08/01/25 11:05	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			08/01/25 11:05	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			08/01/25 11:05	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			08/01/25 11:05	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			08/01/25 11:05	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			08/01/25 11:05	1
1,3-Dichloropropene, Total	<5.00		5.00	0.560	ug/L			08/01/25 11:05	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			08/01/25 11:05	1
2-Chloroethyl vinyl ether	<2.00		2.00	1.70	ug/L			08/01/25 11:05	1
Acrolein	<10.0		10.0	3.60	ug/L			08/01/25 11:05	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			08/01/25 11:05	1
Benzene	<0.500		0.500	0.220	ug/L			08/01/25 11:05	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			08/01/25 11:05	1
Bromoform	<5.00		5.00	0.780	ug/L			08/01/25 11:05	1
Bromomethane	<4.00		4.00	1.10	ug/L			08/01/25 11:05	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			08/01/25 11:05	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			08/01/25 11:05	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			08/01/25 11:05	1
Chloroethane	<4.00		4.00	0.790	ug/L			08/01/25 11:05	1
Chloroform	<3.00		3.00	1.30	ug/L			08/01/25 11:05	1
Chloromethane	<3.00		3.00	0.610	ug/L			08/01/25 11:05	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			08/01/25 11:05	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			08/01/25 11:05	1
Naphthalene	<5.00		5.00	3.00	ug/L			08/01/25 11:05	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			08/01/25 11:05	1
Toluene	<1.00		1.00	0.430	ug/L			08/01/25 11:05	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			08/01/25 11:05	1
Trichloroethene	<1.00		1.00	0.430	ug/L			08/01/25 11:05	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			08/01/25 11:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	108		76 - 130		08/01/25 11:05	1
Toluene-d8 (Surr)	97		80 - 120		08/01/25 11:05	1
4-Bromofluorobenzene (Surr)	107		80 - 120		08/01/25 11:05	1

Lab Sample ID: LCS 310-462332/6

Matrix: Water

Analysis Batch: 462332

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-Trichloroethane	20.0	18.98		ug/L		95	70 - 130
1,1,2,2-Tetrachloroethane	20.0	18.66		ug/L		93	70 - 122
1,1,2-Trichloroethane	20.0	18.10		ug/L		90	75 - 121
1,1-Dichloroethane	20.0	19.62		ug/L		98	70 - 127

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QC Sample Results

Client: SCS Engineers
Project/Site: Sac County LF Leachate

Job ID: 310-312108-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 310-462332/6

Matrix: Water

Analysis Batch: 462332

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	20.0	20.24		ug/L		101	64 - 134
1,2,4-Trichlorobenzene	20.0	19.03		ug/L		95	69 - 125
1,2-Dichlorobenzene	20.0	19.52		ug/L		98	74 - 120
1,2-Dichloroethane	20.0	18.16		ug/L		91	70 - 125
1,2-Dichloropropane	20.0	19.54		ug/L		98	72 - 128
1,3-Dichlorobenzene	20.0	19.90		ug/L		99	71 - 120
1,4-Dichlorobenzene	20.0	19.74		ug/L		99	72 - 120
2-Chloroethyl vinyl ether	20.0	21.70		ug/L		109	50 - 150
Acrylonitrile	200	197.2		ug/L		99	60 - 140
Benzene	20.0	20.44		ug/L		102	71 - 125
Bromodichloromethane	20.0	19.42		ug/L		97	70 - 122
Bromoform	20.0	18.66		ug/L		93	70 - 122
Carbon tetrachloride	20.0	18.01		ug/L		90	70 - 130
Chlorobenzene	20.0	20.19		ug/L		101	74 - 120
Chlorodibromomethane	20.0	18.87		ug/L		94	70 - 121
Chloroform	20.0	19.18		ug/L		96	72 - 122
cis-1,3-Dichloropropene	20.0	22.13		ug/L		111	72 - 123
Ethylbenzene	20.0	20.36		ug/L		102	75 - 120
Methylene Chloride	20.0	20.08		ug/L		100	72 - 128
Naphthalene	20.0	19.46		ug/L		97	69 - 126
Tetrachloroethene	20.0	21.44		ug/L		107	70 - 128
Toluene	20.0	21.07		ug/L		105	74 - 120
trans-1,2-Dichloroethene	20.0	20.18		ug/L		101	70 - 127
trans-1,3-Dichloropropene	20.0	20.26		ug/L		101	67 - 123
Trichloroethene	20.0	20.71		ug/L		104	70 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	96		76 - 130
Toluene-d8 (Surr)	102		80 - 120
4-Bromofluorobenzene (Surr)	94		80 - 120

Lab Sample ID: LCS 310-462332/7

Matrix: Water

Analysis Batch: 462332

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	29.37	*+	ug/L		147	33 - 138
Chloroethane	20.0	36.18	*+	ug/L		181	59 - 139
Chloromethane	20.0	20.92		ug/L		105	52 - 146
Vinyl chloride	20.0	35.82	*+	ug/L		179	60 - 142

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	105		76 - 130
Toluene-d8 (Surr)	93		80 - 120
4-Bromofluorobenzene (Surr)	105		80 - 120

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QC Sample Results

Client: SCS Engineers
Project/Site: Sac County LF Leachate

Job ID: 310-312108-1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 310-462525/1-A

Matrix: Water

Analysis Batch: 462699

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 462525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine	<10.0		10.0	0.750	ug/L		08/04/25 11:11	08/05/25 20:33	1
2,4,6-Trichlorophenol	<10.0		10.0	5.00	ug/L		08/04/25 11:11	08/05/25 20:33	1
2,4-Dichlorophenol	<10.0		10.0	0.850	ug/L		08/04/25 11:11	08/05/25 20:33	1
2,4-Dimethylphenol	<10.0		10.0	0.580	ug/L		08/04/25 11:11	08/05/25 20:33	1
2,4-Dinitrophenol	<20.0		20.0	13.0	ug/L		08/04/25 11:11	08/05/25 20:33	1
2,4-Dinitrotoluene	<10.0		10.0	6.40	ug/L		08/04/25 11:11	08/05/25 20:33	1
2,6-Dinitrotoluene	<10.0		10.0	0.520	ug/L		08/04/25 11:11	08/05/25 20:33	1
2-Chloronaphthalene	<10.0		10.0	0.640	ug/L		08/04/25 11:11	08/05/25 20:33	1
2-Chlorophenol	<10.0		10.0	0.540	ug/L		08/04/25 11:11	08/05/25 20:33	1
2-Nitrophenol	<10.0		10.0	6.80	ug/L		08/04/25 11:11	08/05/25 20:33	1
3,3'-Dichlorobenzidine	<10.0		10.0	1.40	ug/L		08/04/25 11:11	08/05/25 20:33	1
4,6-Dinitro-2-methylphenol	<10.0		10.0	6.90	ug/L		08/04/25 11:11	08/05/25 20:33	1
4-Bromophenyl phenyl ether	<10.0		10.0	0.700	ug/L		08/04/25 11:11	08/05/25 20:33	1
4-Chloro-3-methylphenol	<10.0		10.0	0.840	ug/L		08/04/25 11:11	08/05/25 20:33	1
4-Chlorophenyl phenyl ether	<10.0		10.0	0.690	ug/L		08/04/25 11:11	08/05/25 20:33	1
4-Nitrophenol	<10.0		10.0	7.60	ug/L		08/04/25 11:11	08/05/25 20:33	1
Acenaphthene	<10.0		10.0	0.640	ug/L		08/04/25 11:11	08/05/25 20:33	1
Acenaphthylene	<10.0		10.0	0.720	ug/L		08/04/25 11:11	08/05/25 20:33	1
Anthracene	<10.0		10.0	0.870	ug/L		08/04/25 11:11	08/05/25 20:33	1
Benzidine	<20.0		20.0	1.10	ug/L		08/04/25 11:11	08/05/25 20:33	1
Benzo[a]anthracene	<10.0		10.0	0.850	ug/L		08/04/25 11:11	08/05/25 20:33	1
Benzo[a]pyrene	<10.0		10.0	8.10	ug/L		08/04/25 11:11	08/05/25 20:33	1
Benzo[b]fluoranthene	<10.0		10.0	4.90	ug/L		08/04/25 11:11	08/05/25 20:33	1
Benzo[g,h,i]perylene	<10.0		10.0	6.30	ug/L		08/04/25 11:11	08/05/25 20:33	1
Benzo[k]fluoranthene	<10.0		10.0	2.20	ug/L		08/04/25 11:11	08/05/25 20:33	1
Bis(2-chloroethoxy)methane	<10.0		10.0	0.760	ug/L		08/04/25 11:11	08/05/25 20:33	1
Bis(2-chloroethyl)ether	<10.0		10.0	0.820	ug/L		08/04/25 11:11	08/05/25 20:33	1
bis (2-chloroisopropyl) ether	<10.0		10.0	0.540	ug/L		08/04/25 11:11	08/05/25 20:33	1
Bis(2-ethylhexyl) phthalate	<10.0		10.0	5.50	ug/L		08/04/25 11:11	08/05/25 20:33	1
Butyl benzyl phthalate	<10.0		10.0	5.40	ug/L		08/04/25 11:11	08/05/25 20:33	1
Chrysene	<10.0		10.0	0.870	ug/L		08/04/25 11:11	08/05/25 20:33	1
Dibenz(a,h)anthracene	<10.0		10.0	3.90	ug/L		08/04/25 11:11	08/05/25 20:33	1
Diethyl phthalate	<10.0		10.0	1.70	ug/L		08/04/25 11:11	08/05/25 20:33	1
Dimethyl phthalate	<10.0		10.0	1.00	ug/L		08/04/25 11:11	08/05/25 20:33	1
Di-n-butyl phthalate	<10.0		10.0	5.60	ug/L		08/04/25 11:11	08/05/25 20:33	1
Di-n-octyl phthalate	<20.0		20.0	7.00	ug/L		08/04/25 11:11	08/05/25 20:33	1
Fluoranthene	<10.0		10.0	1.70	ug/L		08/04/25 11:11	08/05/25 20:33	1
Fluorene	<10.0		10.0	0.790	ug/L		08/04/25 11:11	08/05/25 20:33	1
Hexachlorobenzene	<10.0		10.0	0.700	ug/L		08/04/25 11:11	08/05/25 20:33	1
Hexachlorobutadiene	<10.0		10.0	0.860	ug/L		08/04/25 11:11	08/05/25 20:33	1
Hexachlorocyclopentadiene	<10.0		10.0	5.10	ug/L		08/04/25 11:11	08/05/25 20:33	1
Hexachloroethane	<10.0		10.0	0.970	ug/L		08/04/25 11:11	08/05/25 20:33	1
Indeno[1,2,3-cd]pyrene	<10.0		10.0	4.20	ug/L		08/04/25 11:11	08/05/25 20:33	1
Isophorone	<10.0		10.0	0.930	ug/L		08/04/25 11:11	08/05/25 20:33	1
Nitrobenzene	<10.0		10.0	0.800	ug/L		08/04/25 11:11	08/05/25 20:33	1
N-Nitrosodimethylamine	<10.0		10.0	0.720	ug/L		08/04/25 11:11	08/05/25 20:33	1
N-Nitrosodi-n-propylamine	<10.0		10.0	0.920	ug/L		08/04/25 11:11	08/05/25 20:33	1
N-Nitrosodiphenylamine	<10.0		10.0	0.750	ug/L		08/04/25 11:11	08/05/25 20:33	1

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QC Sample Results

Client: SCS Engineers
Project/Site: Sac County LF Leachate

Job ID: 310-312108-1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 310-462525/1-A

Matrix: Water

Analysis Batch: 462699

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 462525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<10.0		10.0	9.60	ug/L		08/04/25 11:11	08/05/25 20:33	1
Phenanthrene	<10.0		10.0	0.790	ug/L		08/04/25 11:11	08/05/25 20:33	1
Phenol	<10.0		10.0	1.10	ug/L		08/04/25 11:11	08/05/25 20:33	1
Pyrene	<10.0		10.0	0.790	ug/L		08/04/25 11:11	08/05/25 20:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	63		21 - 110	08/04/25 11:11	08/05/25 20:33	1
Phenol-d5 (Surr)	50		21 - 110	08/04/25 11:11	08/05/25 20:33	1
Nitrobenzene-d5 (Surr)	80		39 - 140	08/04/25 11:11	08/05/25 20:33	1
2-Fluorobiphenyl (Surr)	86		33 - 126	08/04/25 11:11	08/05/25 20:33	1
2,4,6-Tribromophenol (Surr)	91		20 - 144	08/04/25 11:11	08/05/25 20:33	1
Terphenyl-d14 (Surr)	98		13 - 150	08/04/25 11:11	08/05/25 20:33	1

Lab Sample ID: LCS 310-462525/2-A

Matrix: Water

Analysis Batch: 462699

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 462525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Diphenylhydrazine	100	74.15		ug/L		74	43 - 122
2,4,6-Trichlorophenol	100	87.82		ug/L		88	37 - 141
2,4-Dichlorophenol	100	83.36		ug/L		83	44 - 131
2,4-Dimethylphenol	100	80.31		ug/L		80	32 - 120
2,4-Dinitrophenol	200	95.99		ug/L		48	10 - 150
2,4-Dinitrotoluene	100	82.65		ug/L		83	48 - 136
2,6-Dinitrotoluene	100	85.86		ug/L		86	50 - 135
2-Chloronaphthalene	100	68.61		ug/L		69	60 - 112
2-Chlorophenol	100	76.11		ug/L		76	43 - 119
2-Nitrophenol	100	84.03		ug/L		84	36 - 144
4,6-Dinitro-2-methylphenol	200	128.2		ug/L		64	22 - 150
4-Bromophenyl phenyl ether	100	84.14		ug/L		84	53 - 127
4-Chloro-3-methylphenol	100	79.02		ug/L		79	51 - 132
4-Chlorophenyl phenyl ether	100	83.05		ug/L		83	44 - 118
4-Nitrophenol	200	101.2		ug/L		51	22 - 110
Acenaphthene	100	77.33		ug/L		77	47 - 118
Acenaphthylene	100	79.15		ug/L		79	39 - 115
Anthracene	100	93.87		ug/L		94	49 - 127
Benzo[a]anthracene	100	95.52		ug/L		96	49 - 126
Benzo[a]pyrene	100	83.25		ug/L		83	44 - 133
Benzo[b]fluoranthene	100	79.44		ug/L		79	44 - 136
Benzo[g,h,i]perylene	100	103.7		ug/L		104	42 - 135
Benzo[k]fluoranthene	100	100.5		ug/L		100	49 - 134
Bis(2-chloroethoxy)methane	100	70.93		ug/L		71	44 - 126
Bis(2-chloroethyl)ether	100	62.72		ug/L		63	41 - 116
bis (2-chloroisopropyl) ether	100	64.44		ug/L		64	36 - 115
Bis(2-ethylhexyl) phthalate	100	84.76		ug/L		85	46 - 138
Butyl benzyl phthalate	100	83.96		ug/L		84	47 - 133
Chrysene	100	97.58		ug/L		98	50 - 128
Dibenz(a,h)anthracene	100	95.40		ug/L		95	36 - 146

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QC Sample Results

Client: SCS Engineers
Project/Site: Sac County LF Leachate

Job ID: 310-312108-1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 310-462525/2-A

Matrix: Water

Analysis Batch: 462699

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 462525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diethyl phthalate	100	91.66		ug/L		92	43 - 120
Dimethyl phthalate	100	88.12		ug/L		88	46 - 120
Di-n-butyl phthalate	100	92.17		ug/L		92	49 - 120
Di-n-octyl phthalate	100	93.80		ug/L		94	33 - 146
Fluoranthene	100	97.68		ug/L		98	49 - 132
Fluorene	100	82.02		ug/L		82	59 - 118
Hexachlorobenzene	100	78.81		ug/L		79	42 - 134
Hexachlorobutadiene	100	65.03		ug/L		65	29 - 110
Hexachlorocyclopentadiene	100	51.90		ug/L		52	10 - 110
Hexachloroethane	100	53.23		ug/L		53	40 - 110
Indeno[1,2,3-cd]pyrene	100	94.60		ug/L		95	36 - 149
Isophorone	100	77.40		ug/L		77	46 - 126
Nitrobenzene	100	64.62		ug/L		65	42 - 123
N-Nitrosodimethylamine	100	66.30		ug/L		66	37 - 110
N-Nitrosodi-n-propylamine	100	66.84		ug/L		67	44 - 124
N-Nitrosodiphenylamine	100	88.97		ug/L		89	43 - 132
Pentachlorophenol	200	130.3		ug/L		65	28 - 142
Phenanthrene	100	88.07		ug/L		88	54 - 120
Phenol	100	50.57		ug/L		51	29 - 110
Pyrene	100	87.60		ug/L		88	52 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol (Surr)	67		21 - 110
Phenol-d5 (Surr)	52		21 - 110
Nitrobenzene-d5 (Surr)	80		39 - 140
2-Fluorobiphenyl (Surr)	84		33 - 126
2,4,6-Tribromophenol (Surr)	101		20 - 144
Terphenyl-d14 (Surr)	94		13 - 150

Lab Sample ID: LCSD 310-462525/3-A

Matrix: Water

Analysis Batch: 462699

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 462525

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Diphenylhydrazine	100	81.87		ug/L		82	43 - 122	10	35
2,4,6-Trichlorophenol	100	94.84		ug/L		95	37 - 141	8	35
2,4-Dichlorophenol	100	94.25		ug/L		94	44 - 131	12	35
2,4-Dimethylphenol	100	86.29		ug/L		86	32 - 120	7	35
2,4-Dinitrophenol	200	118.4		ug/L		59	10 - 150	21	35
2,4-Dinitrotoluene	100	83.98		ug/L		84	48 - 136	2	35
2,6-Dinitrotoluene	100	93.13		ug/L		93	50 - 135	8	35
2-Chloronaphthalene	100	73.34		ug/L		73	60 - 112	7	24
2-Chlorophenol	100	77.18		ug/L		77	43 - 119	1	35
2-Nitrophenol	100	94.05		ug/L		94	36 - 144	11	35
4,6-Dinitro-2-methylphenol	200	140.5		ug/L		70	22 - 150	9	35
4-Bromophenyl phenyl ether	100	92.75		ug/L		93	53 - 127	10	35
4-Chloro-3-methylphenol	100	86.37		ug/L		86	51 - 132	9	35
4-Chlorophenyl phenyl ether	100	87.89		ug/L		88	44 - 118	6	35

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QC Sample Results

Client: SCS Engineers
Project/Site: Sac County LF Leachate

Job ID: 310-312108-1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 310-462525/3-A

Matrix: Water

Analysis Batch: 462699

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 462525

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Nitrophenol	200	104.5		ug/L		52	22 - 110	3	35
Acenaphthene	100	81.21		ug/L		81	47 - 118	5	35
Acenaphthylene	100	83.76		ug/L		84	39 - 115	6	35
Anthracene	100	101.3		ug/L		101	49 - 127	8	35
Benzo[a]anthracene	100	100.6		ug/L		101	49 - 126	5	35
Benzo[a]pyrene	100	91.92		ug/L		92	44 - 133	10	35
Benzo[b]fluoranthene	100	88.40		ug/L		88	44 - 136	11	35
Benzo[g,h,i]perylene	100	101.5		ug/L		102	42 - 135	2	35
Benzo[k]fluoranthene	100	107.2		ug/L		107	49 - 134	6	35
Bis(2-chloroethoxy)methane	100	83.48		ug/L		83	44 - 126	16	35
Bis(2-chloroethyl)ether	100	68.40		ug/L		68	41 - 116	9	35
bis (2-chloroisopropyl) ether	100	70.10		ug/L		70	36 - 115	8	35
Bis(2-ethylhexyl) phthalate	100	90.48		ug/L		90	46 - 138	7	35
Butyl benzyl phthalate	100	89.92		ug/L		90	47 - 133	7	35
Chrysene	100	105.0		ug/L		105	50 - 128	7	35
Dibenz(a,h)anthracene	100	104.3		ug/L		104	36 - 146	9	35
Diethyl phthalate	100	98.80		ug/L		99	43 - 120	7	35
Dimethyl phthalate	100	99.54		ug/L		100	46 - 120	12	35
Di-n-butyl phthalate	100	100.0		ug/L		100	49 - 120	8	35
Di-n-octyl phthalate	100	97.44		ug/L		97	33 - 146	4	35
Fluoranthene	100	109.6		ug/L		110	49 - 132	12	35
Fluorene	100	86.05		ug/L		86	59 - 118	5	35
Hexachlorobenzene	100	90.50		ug/L		90	42 - 134	14	35
Hexachlorobutadiene	100	72.09		ug/L		72	29 - 110	10	35
Hexachlorocyclopentadiene	100	59.35		ug/L		59	10 - 110	13	35
Hexachloroethane	100	55.44		ug/L		55	40 - 110	4	35
Indeno[1,2,3-cd]pyrene	100	100.3		ug/L		100	36 - 149	6	35
Isophorone	100	85.45		ug/L		85	46 - 126	10	35
Nitrobenzene	100	68.76		ug/L		69	42 - 123	6	35
N-Nitrosodimethylamine	100	65.00		ug/L		65	37 - 110	2	35
N-Nitrosodi-n-propylamine	100	70.88		ug/L		71	44 - 124	6	35
N-Nitrosodiphenylamine	100	90.68		ug/L		91	43 - 132	2	35
Pentachlorophenol	200	144.7		ug/L		72	28 - 142	10	35
Phenanthrene	100	96.69		ug/L		97	54 - 120	9	35
Phenol	100	50.20		ug/L		50	29 - 110	1	35
Pyrene	100	98.62		ug/L		99	52 - 120	12	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorophenol (Surr)	65		21 - 110
Phenol-d5 (Surr)	51		21 - 110
Nitrobenzene-d5 (Surr)	82		39 - 140
2-Fluorobiphenyl (Surr)	86		33 - 126
2,4,6-Tribromophenol (Surr)	112		20 - 144
Terphenyl-d14 (Surr)	98		13 - 150

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
Project/Site: Sac County LF Leachate

Job ID: 310-312108-1

Method: 608.3 - Organochlorine Pesticides in Water

Lab Sample ID: MB 310-462680/1-A

Matrix: Water

Analysis Batch: 463416

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 462680

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0640		0.0640	0.0270	ug/L		08/05/25 13:13	08/12/25 17:42	1
4,4'-DDE	<0.0640		0.0640	0.0270	ug/L		08/05/25 13:13	08/12/25 17:42	1
4,4'-DDT	<0.0640		0.0640	0.0420	ug/L		08/05/25 13:13	08/12/25 17:42	1
Aldrin	<0.0640		0.0640	0.0320	ug/L		08/05/25 13:13	08/12/25 17:42	1
alpha-BHC	<0.0640		0.0640	0.0290	ug/L		08/05/25 13:13	08/12/25 17:42	1
beta-BHC	<0.0640		0.0640	0.0370	ug/L		08/05/25 13:13	08/12/25 17:42	1
Chlordane (technical)	<2.00		2.00	0.810	ug/L		08/05/25 13:13	08/12/25 17:42	1
delta-BHC	<0.0640		0.0640	0.0270	ug/L		08/05/25 13:13	08/12/25 17:42	1
Dieldrin	<0.0640		0.0640	0.0260	ug/L		08/05/25 13:13	08/12/25 17:42	1
Endosulfan I	<0.0640		0.0640	0.0330	ug/L		08/05/25 13:13	08/12/25 17:42	1
Endosulfan II	<0.0640		0.0640	0.0290	ug/L		08/05/25 13:13	08/12/25 17:42	1
Endosulfan sulfate	<0.0640		0.0640	0.0300	ug/L		08/05/25 13:13	08/12/25 17:42	1
Endrin	<0.0640		0.0640	0.0260	ug/L		08/05/25 13:13	08/12/25 17:42	1
Endrin aldehyde	<0.0640		0.0640	0.0290	ug/L		08/05/25 13:13	08/12/25 17:42	1
gamma-BHC (Lindane)	<0.0640		0.0640	0.0360	ug/L		08/05/25 13:13	08/12/25 17:42	1
Heptachlor	<0.0640		0.0640	0.0330	ug/L		08/05/25 13:13	08/12/25 17:42	1
Heptachlor epoxide	<0.0640		0.0640	0.0290	ug/L		08/05/25 13:13	08/12/25 17:42	1
Toxaphene	<2.00		2.00	0.690	ug/L		08/05/25 13:13	08/12/25 17:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	68		10 - 126	08/05/25 13:13	08/12/25 17:42	1
Tetrachloro-m-xylene	77		10 - 124	08/05/25 13:13	08/12/25 17:42	1

Lab Sample ID: LCS 310-462680/4-A

Matrix: Water

Analysis Batch: 463416

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 462680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	1.00	0.6866		ug/L		69	41 - 117
4,4'-DDE	1.00	0.7162		ug/L		72	35 - 110
4,4'-DDT	1.00	0.9700		ug/L		97	26 - 123
Aldrin	1.00	0.7230		ug/L		72	42 - 110
alpha-BHC	1.00	0.7306		ug/L		73	37 - 110
beta-BHC	1.00	0.7823		ug/L		78	38 - 114
delta-BHC	1.00	0.7441		ug/L		74	34 - 114
Dieldrin	1.00	0.7374		ug/L		74	37 - 114
Endosulfan I	1.00	0.7132		ug/L		71	45 - 113
Endosulfan II	1.00	0.6900		ug/L		69	12 - 113
Endosulfan sulfate	1.00	0.7679		ug/L		77	35 - 123
Endrin	1.00	0.7652		ug/L		77	36 - 119
Endrin aldehyde	1.00	0.7013		ug/L		70	37 - 111
gamma-BHC (Lindane)	1.00	0.7668		ug/L		77	35 - 113
Heptachlor	1.00	0.8020		ug/L		80	34 - 110
Heptachlor epoxide	1.00	0.7640		ug/L		76	38 - 114

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	81		10 - 126
Tetrachloro-m-xylene	86		10 - 124

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QC Sample Results

Client: SCS Engineers
Project/Site: Sac County LF Leachate

Job ID: 310-312108-1

Method: 608.3 - Organochlorine Pesticides in Water

Lab Sample ID: LCSD 310-462680/5-A

Matrix: Water

Analysis Batch: 463416

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 462680

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	1.00	0.6047		ug/L		60	41 - 117	13	34
4,4'-DDE	1.00	0.6314		ug/L		63	35 - 110	13	35
4,4'-DDT	1.00	0.8432		ug/L		84	26 - 123	14	35
Aldrin	1.00	0.6468		ug/L		65	42 - 110	11	35
alpha-BHC	1.00	0.6507		ug/L		65	37 - 110	12	35
beta-BHC	1.00	0.6890		ug/L		69	38 - 114	13	35
delta-BHC	1.00	0.6556		ug/L		66	34 - 114	13	35
Dieldrin	1.00	0.6479		ug/L		65	37 - 114	13	35
Endosulfan I	1.00	0.6256		ug/L		63	45 - 113	13	28
Endosulfan II	1.00	0.6081		ug/L		61	12 - 113	13	35
Endosulfan sulfate	1.00	0.6703		ug/L		67	35 - 123	14	35
Endrin	1.00	0.6676		ug/L		67	36 - 119	14	35
Endrin aldehyde	1.00	0.6118		ug/L		61	37 - 111	14	35
gamma-BHC (Lindane)	1.00	0.6769		ug/L		68	35 - 113	12	35
Heptachlor	1.00	0.7136		ug/L		71	34 - 110	12	35
Heptachlor epoxide	1.00	0.6701		ug/L		67	38 - 114	13	26

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	55		10 - 126
Tetrachloro-m-xylene	72		10 - 124

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 310-462680/1-A

Matrix: Water

Analysis Batch: 463418

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 462680

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.800		0.800	0.160	ug/L		08/05/25 13:13	08/12/25 17:42	1
PCB-1221	<0.800		0.800	0.160	ug/L		08/05/25 13:13	08/12/25 17:42	1
PCB-1232	<0.800		0.800	0.160	ug/L		08/05/25 13:13	08/12/25 17:42	1
PCB-1242	<0.800		0.800	0.160	ug/L		08/05/25 13:13	08/12/25 17:42	1
PCB-1248	<0.800		0.800	0.110	ug/L		08/05/25 13:13	08/12/25 17:42	1
PCB-1254	<0.800		0.800	0.110	ug/L		08/05/25 13:13	08/12/25 17:42	1
PCB-1260	<0.800		0.800	0.110	ug/L		08/05/25 13:13	08/12/25 17:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	68		10 - 126	08/05/25 13:13	08/12/25 17:42	1
Tetrachloro-m-xylene	77		10 - 124	08/05/25 13:13	08/12/25 17:42	1

Lab Sample ID: LCS 310-462680/2-A

Matrix: Water

Analysis Batch: 463418

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 462680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	10.0	6.250		ug/L		63	50 - 123
PCB-1260	10.0	6.291		ug/L		63	38 - 118

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QC Sample Results

Client: SCS Engineers
Project/Site: Sac County LF Leachate

Job ID: 310-312108-1

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: LCS 310-462680/2-A

Matrix: Water

Analysis Batch: 463418

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 462680

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	80		10 - 126
Tetrachloro-m-xylene	72		10 - 124

Lab Sample ID: LCSD 310-462680/3-A

Matrix: Water

Analysis Batch: 463418

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 462680

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	10.0	5.892		ug/L		59	50 - 123	6	33
PCB-1260	10.0	5.446		ug/L		54	38 - 118	14	33

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	50		10 - 126
Tetrachloro-m-xylene	65		10 - 124

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 310-462419/1-A

Matrix: Water

Analysis Batch: 463027

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 462419

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		08/04/25 09:30	08/07/25 18:11	1
Barium	<0.00200		0.00200	0.000660	mg/L		08/04/25 09:30	08/07/25 18:11	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		08/04/25 09:30	08/07/25 18:11	1
Chromium	<0.00500		0.00500	0.00180	mg/L		08/04/25 09:30	08/07/25 18:11	1
Copper	<0.00500		0.00500	0.00320	mg/L		08/04/25 09:30	08/07/25 18:11	1
Iron	<0.100		0.100	0.0500	mg/L		08/04/25 09:30	08/07/25 18:11	1
Lead	<0.000500		0.000500	0.000330	mg/L		08/04/25 09:30	08/07/25 18:11	1
Potassium	<0.500		0.500	0.170	mg/L		08/04/25 09:30	08/07/25 18:11	1
Selenium	<0.00500		0.00500	0.00140	mg/L		08/04/25 09:30	08/07/25 18:11	1
Silver	<0.00100		0.00100	0.000500	mg/L		08/04/25 09:30	08/07/25 18:11	1
Molybdenum	<0.00200		0.00200	0.00130	mg/L		08/04/25 09:30	08/07/25 18:11	1
Nickel	<0.00500		0.00500	0.00230	mg/L		08/04/25 09:30	08/07/25 18:11	1
Zinc	<0.0200		0.0200	0.0130	mg/L		08/04/25 09:30	08/07/25 18:11	1

Lab Sample ID: MB 310-462419/1-A

Matrix: Water

Analysis Batch: 463188

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 462419

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00100		0.00100	0.000570	mg/L		08/04/25 09:30	08/08/25 14:22	1

Lab Sample ID: LCS 310-462419/2-A

Matrix: Water

Analysis Batch: 463027

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 462419

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.2118		mg/L		106	85 - 115

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QC Sample Results

Client: SCS Engineers
Project/Site: Sac County LF Leachate

Job ID: 310-312108-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 310-462419/2-A

Matrix: Water

Analysis Batch: 463027

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 462419

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.100	0.1038		mg/L		104	85 - 115
Cadmium	0.100	0.1025		mg/L		103	85 - 115
Chromium	0.100	0.1049		mg/L		105	85 - 115
Copper	0.200	0.2230		mg/L		111	85 - 115
Iron	0.200	0.2265		mg/L		113	85 - 115
Lead	0.200	0.2203		mg/L		110	85 - 115
Potassium	2.00	1.928		mg/L		96	85 - 115
Selenium	0.400	0.4042		mg/L		101	85 - 115
Silver	0.100	0.1258	*+	mg/L		126	85 - 115
Molybdenum	0.200	0.1953		mg/L		98	85 - 115
Nickel	0.200	0.2181		mg/L		109	85 - 115
Zinc	0.200	0.2156		mg/L		108	85 - 115

Lab Sample ID: LCS 310-462419/2-A

Matrix: Water

Analysis Batch: 463188

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 462419

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.100	0.1059		mg/L		106	85 - 115

Method: 245.2 - Mercury (CVAA)

Lab Sample ID: MB 310-462947/1-A

Matrix: Water

Analysis Batch: 463071

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 462947

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200	0.000110	mg/L		08/07/25 13:45	08/08/25 10:11	1

Lab Sample ID: LCS 310-462947/2-A

Matrix: Water

Analysis Batch: 463071

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 462947

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00167	0.001640		mg/L		98	85 - 115

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 310-462378/1-A

Matrix: Water

Analysis Batch: 462430

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 462378

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0100		0.0100	0.00350	mg/L		08/01/25 10:54	08/01/25 22:40	1

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
Project/Site: Sac County LF Leachate

Job ID: 310-312108-1

Method: 335.4 - Cyanide, Total (Continued)

Lab Sample ID: LCS 310-462378/2-A
Matrix: Water
Analysis Batch: 462430

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 462378

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.200	0.2047		mg/L		102	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 310-462476/1-A
Matrix: Water
Analysis Batch: 462581

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 462476

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.500		0.500	0.210	mg/L		08/04/25 08:10	08/04/25 17:43	1

Lab Sample ID: LCS 310-462476/2-A
Matrix: Water
Analysis Batch: 462581

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 462476

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	4.00	3.653		mg/L		91	90 - 110

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 310-462225/1-A
Matrix: Water
Analysis Batch: 462308

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 462225

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	<1.00		1.00	0.620	mg/L		07/31/25 10:12	07/31/25 17:18	1

Lab Sample ID: LCS 310-462225/2-A
Matrix: Water
Analysis Batch: 462308

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 462225

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	4.01	4.350		mg/L		109	90 - 110

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

Lab Sample ID: MB 310-462270/1
Matrix: Water
Analysis Batch: 462270

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			07/31/25 13:19	1

Lab Sample ID: LCS 310-462270/2
Matrix: Water
Analysis Batch: 462270

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	102.0		mg/L		102	82 - 117

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QC Sample Results

Client: SCS Engineers
Project/Site: Sac County LF Leachate

Job ID: 310-312108-1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 310-462312/1

Matrix: Water

Analysis Batch: 462312

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<50.0		50.0	36.0	mg/L			07/31/25 19:17	1

Lab Sample ID: LCS 310-462312/2

Matrix: Water

Analysis Batch: 462312

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1032		mg/L		103	89 - 110

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 310-462177/2-A

Matrix: Water

Analysis Batch: 462176

Client Sample ID: Method Blank

Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (VI)	<0.0200		0.0200	0.00690	mg/L			07/30/25 09:43	1

Lab Sample ID: LCS 310-462177/1-A

Matrix: Water

Analysis Batch: 462176

Client Sample ID: Lab Control Sample

Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium (VI)	0.221	0.2053		mg/L		93	90 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 310-462125/1

Matrix: Water

Analysis Batch: 462125

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		SU		100	98 - 102

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 310-462055/1

Matrix: Water

Analysis Batch: 462055

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	<3.00		3.00	3.00	mg/L			07/30/25 06:31	1

Lab Sample ID: LCS 310-462055/2

Matrix: Water

Analysis Batch: 462055

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Biochemical Oxygen Demand	198	130.9	*-	mg/L		66	85 - 115

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
Project/Site: Sac County LF Leachate

Job ID: 310-312108-1

Method: SM 5220D - COD

Lab Sample ID: MB 310-462705/32
Matrix: Water
Analysis Batch: 462705

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	<5.00		5.00	4.60	mg/L			08/05/25 15:25	1

Lab Sample ID: LCS 310-462705/33
Matrix: Water
Analysis Batch: 462705

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	125	125.4		mg/L		100	85 - 115

Method: SM 5310C - TOC

Lab Sample ID: MB 310-462381/11
Matrix: Water
Analysis Batch: 462381

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<1.00		1.00	0.500	mg/L			07/31/25 16:12	1

Lab Sample ID: LCS 310-462381/12
Matrix: Water
Analysis Batch: 462381

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	9.99	10.22		mg/L		102	85 - 115

QC Association Summary

Client: SCS Engineers
Project/Site: Sac County LF Leachate

Job ID: 310-312108-1

GC/MS VOA

Analysis Batch: 462332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-312108-1	Leachate	Total/NA	Water	624.1	
MB 310-462332/5	Method Blank	Total/NA	Water	624.1	
LCS 310-462332/6	Lab Control Sample	Total/NA	Water	624.1	
LCS 310-462332/7	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 462525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-312108-1	Leachate	Total/NA	Water	625	
MB 310-462525/1-A	Method Blank	Total/NA	Water	625	
LCS 310-462525/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 310-462525/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 462699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-312108-1	Leachate	Total/NA	Water	625.1	462525
MB 310-462525/1-A	Method Blank	Total/NA	Water	625.1	462525
LCS 310-462525/2-A	Lab Control Sample	Total/NA	Water	625.1	462525
LCSD 310-462525/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	462525

GC Semi VOA

Prep Batch: 462680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-312108-1	Leachate	Total/NA	Water	608	
MB 310-462680/1-A	Method Blank	Total/NA	Water	608	
LCS 310-462680/2-A	Lab Control Sample	Total/NA	Water	608	
LCS 310-462680/4-A	Lab Control Sample	Total/NA	Water	608	
LCSD 310-462680/3-A	Lab Control Sample Dup	Total/NA	Water	608	
LCSD 310-462680/5-A	Lab Control Sample Dup	Total/NA	Water	608	

Analysis Batch: 463416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-312108-1	Leachate	Total/NA	Water	608.3	462680
MB 310-462680/1-A	Method Blank	Total/NA	Water	608.3	462680
LCS 310-462680/4-A	Lab Control Sample	Total/NA	Water	608.3	462680
LCSD 310-462680/5-A	Lab Control Sample Dup	Total/NA	Water	608.3	462680

Analysis Batch: 463418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-312108-1	Leachate	Total/NA	Water	608.3	462680
MB 310-462680/1-A	Method Blank	Total/NA	Water	608.3	462680
LCS 310-462680/2-A	Lab Control Sample	Total/NA	Water	608.3	462680
LCSD 310-462680/3-A	Lab Control Sample Dup	Total/NA	Water	608.3	462680

Metals

Prep Batch: 462419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-312108-1	Leachate	Total/NA	Water	200.8	
MB 310-462419/1-A	Method Blank	Total/NA	Water	200.8	

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: Sac County LF Leachate

Job ID: 310-312108-1

Metals (Continued)

Prep Batch: 462419 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 310-462419/2-A	Lab Control Sample	Total/NA	Water	200.8	

Prep Batch: 462947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-312108-1	Leachate	Total/NA	Water	245.1	
MB 310-462947/1-A	Method Blank	Total/NA	Water	245.1	
LCS 310-462947/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 463027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-312108-1	Leachate	Total/NA	Water	200.8	462419
MB 310-462419/1-A	Method Blank	Total/NA	Water	200.8	462419
LCS 310-462419/2-A	Lab Control Sample	Total/NA	Water	200.8	462419

Analysis Batch: 463071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-312108-1	Leachate	Total/NA	Water	245.2	462947
MB 310-462947/1-A	Method Blank	Total/NA	Water	245.2	462947
LCS 310-462947/2-A	Lab Control Sample	Total/NA	Water	245.2	462947

Analysis Batch: 463188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-312108-1	Leachate	Total/NA	Water	200.8	462419
MB 310-462419/1-A	Method Blank	Total/NA	Water	200.8	462419
LCS 310-462419/2-A	Lab Control Sample	Total/NA	Water	200.8	462419

General Chemistry

Analysis Batch: 462055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-312108-1	Leachate	Total/NA	Water	SM 5210B	
USB 310-462055/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 310-462055/2	Lab Control Sample	Total/NA	Water	SM 5210B	

Analysis Batch: 462125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-312108-1	Leachate	Total/NA	Water	SM 4500 H+ B	
LCS 310-462125/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 462176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-312108-1	Leachate	Dissolved	Water	SM 3500 CR B	462177
MB 310-462177/2-A	Method Blank	Dissolved	Water	SM 3500 CR B	462177
LCS 310-462177/1-A	Lab Control Sample	Dissolved	Water	SM 3500 CR B	462177

Filtration Batch: 462177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-312108-1	Leachate	Dissolved	Water	Filtration	
MB 310-462177/2-A	Method Blank	Dissolved	Water	Filtration	
LCS 310-462177/1-A	Lab Control Sample	Dissolved	Water	Filtration	

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: Sac County LF Leachate

Job ID: 310-312108-1

General Chemistry

Prep Batch: 462225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-312108-1	Leachate	Total/NA	Water	351.2	
MB 310-462225/1-A	Method Blank	Total/NA	Water	351.2	
LCS 310-462225/2-A	Lab Control Sample	Total/NA	Water	351.2	

Analysis Batch: 462270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-312108-1	Leachate	Total/NA	Water	I-3765-85	
MB 310-462270/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-462270/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 462308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-312108-1	Leachate	Total/NA	Water	351.2	462225
MB 310-462225/1-A	Method Blank	Total/NA	Water	351.2	462225
LCS 310-462225/2-A	Lab Control Sample	Total/NA	Water	351.2	462225

Analysis Batch: 462312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-312108-1	Leachate	Total/NA	Water	SM 2540C	
MB 310-462312/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-462312/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Prep Batch: 462378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-312108-1	Leachate	Total/NA	Water	Distill/CN	
MB 310-462378/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 310-462378/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 462381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-312108-1	Leachate	Total/NA	Water	SM 5310C	
MB 310-462381/11	Method Blank	Total/NA	Water	SM 5310C	
LCS 310-462381/12	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 462430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-312108-1	Leachate	Total/NA	Water	335.4	462378
MB 310-462378/1-A	Method Blank	Total/NA	Water	335.4	462378
LCS 310-462378/2-A	Lab Control Sample	Total/NA	Water	335.4	462378

Prep Batch: 462476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-312108-1	Leachate	Total/NA	Water	Distill/Ammonia	
MB 310-462476/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 310-462476/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 462581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-312108-1	Leachate	Total/NA	Water	350.1	462476
MB 310-462476/1-A	Method Blank	Total/NA	Water	350.1	462476
LCS 310-462476/2-A	Lab Control Sample	Total/NA	Water	350.1	462476

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: Sac County LF Leachate

Job ID: 310-312108-1

General Chemistry

Analysis Batch: 462705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-312108-1	Leachate	Total/NA	Water	SM 5220D	
MB 310-462705/32	Method Blank	Total/NA	Water	SM 5220D	
LCS 310-462705/33	Lab Control Sample	Total/NA	Water	SM 5220D	

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

Lab Chronicle

Client: SCS Engineers
Project/Site: Sac County LF Leachate

Job ID: 310-312108-1

Client Sample ID: Leachate

Lab Sample ID: 310-312108-1

Date Collected: 07/29/25 07:15

Matrix: Water

Date Received: 07/30/25 08:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	462332	FE5V	EET CF	08/01/25 17:45
Total/NA	Prep	625			462525	J5BR	EET CF	08/04/25 11:11
Total/NA	Analysis	625.1		1	462699	V7YZ	EET CF	08/06/25 02:13
Total/NA	Prep	608			462680	J5BR	EET CF	08/05/25 13:13
Total/NA	Analysis	608.3		1	463416	BW2O	EET CF	08/12/25 19:00
Total/NA	Prep	608			462680	J5BR	EET CF	08/05/25 13:13
Total/NA	Analysis	608.3		1	463418	BW2O	EET CF	08/12/25 19:00
Total/NA	Prep	200.8			462419	WK2X	EET CF	08/04/25 09:30
Total/NA	Analysis	200.8		1	463027	NFT2	EET CF	08/07/25 19:28
Total/NA	Prep	200.8			462419	WK2X	EET CF	08/04/25 09:30
Total/NA	Analysis	200.8		1	463188	NFT2	EET CF	08/08/25 15:24
Total/NA	Prep	245.1			462947	QTZ5	EET CF	08/07/25 13:45
Total/NA	Analysis	245.2		1	463071	QTZ5	EET CF	08/08/25 10:51
Total/NA	Prep	Distill/CN			462378	ENB7	EET CF	08/01/25 10:54
Total/NA	Analysis	335.4		1	462430	ZJX4	EET CF	08/01/25 22:48
Total/NA	Prep	Distill/Ammonia			462476	E6KR	EET CF	08/04/25 08:10
Total/NA	Analysis	350.1		1	462581	ZJX4	EET CF	08/04/25 17:47
Total/NA	Prep	351.2			462225	HE7K	EET CF	07/31/25 10:12
Total/NA	Analysis	351.2		1	462308	ZJX4	EET CF	07/31/25 18:40
Total/NA	Analysis	I-3765-85		1	462270	E6KR	EET CF	07/31/25 13:19
Total/NA	Analysis	SM 2540C		1	462312	MDU9	EET CF	07/31/25 19:17
Dissolved	Filtration	Filtration			462177	WZC8	EET CF	07/30/25 09:30
Dissolved	Analysis	SM 3500 CR B		1	462176	WZC8	EET CF	07/30/25 09:46
Total/NA	Analysis	SM 4500 H+ B		1	462125	W9YR	EET CF	07/30/25 11:56
Total/NA	Analysis	SM 5210B		1	462055	W9YR	EET CF	07/30/25 09:37
Total/NA	Analysis	SM 5220D		5	462705	ENB7	EET CF	08/05/25 15:25
Total/NA	Analysis	SM 5310C		40	462381	WZC8	EET CF	08/01/25 03:39

Laboratory References:

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

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Sac County LF Leachate

Job ID: 310-312108-1

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
624.1		Water	1,2,4-Trichlorobenzene
624.1		Water	1,3-Dichloropropene, Total
624.1		Water	Naphthalene

Method Summary

Client: SCS Engineers
Project/Site: Sac County LF Leachate

Job ID: 310-312108-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	EET CF
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	EET CF
608.3	Organochlorine Pesticides in Water	EPA	EET CF
608.3	Polychlorinated Biphenyls (PCBs) (GC)	EPA	EET CF
200.8	Metals (ICP/MS)	EPA	EET CF
245.2	Mercury (CVAA)	EPA	EET CF
335.4	Cyanide, Total	EPA	EET CF
350.1	Nitrogen, Ammonia	EPA	EET CF
351.2	Nitrogen, Total Kjeldahl	EPA	EET CF
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CF
SM 3500 CR B	Chromium, Hexavalent	SM	EET CF
SM 4500 H+ B	pH	SM	EET CF
SM 5210B	BOD, 5-Day	SM	EET CF
SM 5220D	COD	SM	EET CF
SM 5310C	TOC	SM	EET CF
200.8	Preparation, Total Metals	EPA	EET CF
245.1	Preparation, Mercury	EPA	EET CF
351.2	Nitrogen, Total Kjeldahl	EPA	EET CF
608	Liquid-Liquid Extraction (Separatory Funnel)	EPA	EET CF
625	Liquid-Liquid Extraction	EPA	EET CF
Distill/Ammonia	Distillation, Ammonia	None	EET CF
Distill/CN	Distillation, Cyanide	None	EET CF
Filtration	Sample Filtration	None	EET CF

Protocol References:

EPA = US Environmental Protection Agency
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"
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



Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client <u>SCS Engineers</u>			
City/State:	CITY	STATE	Project.
		<u>IA</u>	
Receipt Information			
Date/Time Received:	DATE	TIME	Received By.
	<u>7-30-25</u>	<u>0825</u>	<u>EH</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 yes 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? ↓			
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID <u>AA</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>1.3</u>		Corrected Temp (°C): <u>1.3</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			

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>SCS Engineers</u>			
City/State:	CITY	STATE	Project:
Receipt Information			
Date/Time Received:	DATE <u>7-30-25</u>	TIME <u>0825</u>	Received By: <u>EH</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>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? ↓			
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID <u>AA</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):		Corrected Temp (°C):	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1 <u>Amber glass 250ml</u>	CONTAINER 2 <u>→</u>	
Uncorrected Temp (°C):	<u>1.3</u>	<u>1.9</u>	
Corrected Temp (°C):	<u>1.3</u>	<u>1.9</u>	
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			

[illegible]

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-312108-1

SDG Number:

Login Number: 312108

List Number: 1

Creator: Homolar, Dana J

List Source: Eurofins Cedar Falls

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

Appendix F

2025 Landfill Gas Annual Report

Table F1
Gas Monitoring Summary
2025 Annual Water Quality Report
Sac County Sanitary Landfill
Permit No. 81-SDP-01-75C

Monitoring Points				Methane Results (% LEL)							
Name	Type	Description		1/6/2025	S (Y/N)	4/17/2025	S (Y/N)	7/7/2025	S (Y/N)	11/17/2025	S (Y/N)
#7	GP-1	Subsurface	Northwest property boundary	0%	N	0%	N	0%	N	0%	N
#8	GP-2	Subsurface	North property boundary	0%	N	0%	N	0%	N	0%	N
#9	GP-3	Subsurface	Northeast property boundary	0%	N	0%	N	0%	N	0%	N
#10	GP-4	Subsurface	Southeast property boundary	0%	N	0%	N	0%	N	0%	N
#11	GP-5	Subsurface	Southwest property boundary	0%	N	0%	N	0%	N	0%	N
#12	Transfer Station	Indoor	Transfer Station	0%		0%		0%		0%	
#13	Recycling Bldg.	Indoor	Recycling Building	0%		0%		0%		0%	
#14	Scale House	Indoor	Scale House	0%		0%		0%		0%	

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

Comments:

- 1) The request to remove the ambient methane monitoring (points A-1 through A-6) from the monitoring program was approved on May 23, 2024 (Doc #110140).
- 2) Monitoring point #14, the scale house, has historically been measured for methane, and the results were documented under monitoring point #12, the transfer station. Beginning with this reporting period, the scale house methane measurements will be reported separately.



Appendix G

Standards History Graphs

