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Geoff Spain
Iowa Department of Natural Resources
Land Quality Bureau
6200 Park Avenue
Des Moines, Iowa 50321

Subject: 2025 Annual Water Quality Report
U.S. Gypsum Sperry Landfill (Closed)
Permit No. 29-SDP-04-89C

Dear Geoff:

SCS Engineers has completed the required groundwater monitoring and statistical evaluation for the U.S. Gypsum Sperry Landfill (Landfill) for the 2025 reporting year. Our services were performed in general accordance with the 1989 Iowa Administrative Code (IAC) 567-103, the closure permit requirements for implementation of the Hydrologic Monitoring System Plan (HMSP), and subsequent permit amendments and correspondence. Please find enclosed a copy of the 2025 Annual Water Quality Report for the Landfill.

If you have any questions about this report, please contact us as noted below.

Sincerely,



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2025 Annual Water Quality Report

United States Gypsum – Sperry Landfill
Solid Waste Permit No. 29-SDP-04-89

Prepared for:

United States Gypsum Company

SCS ENGINEERS

27225013.00 | August 2025

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CERTIFICATION

Prepared by:

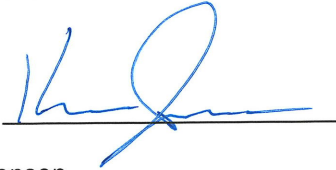


Date:

8/11/2025

Typed: Semir Omerovic

Reviewed by:



Date:

8/11/2025

Typed: Kevin Jensen

	I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.	
	<u></u>	Date: <u>8/11/2025</u>
	Timothy C. Buelow, P.E.	
	License No. 14445	
	My license renewal date is December 31, 2025.	
Pages or sheets covered by this seal:		
<u>All except Appendix B-1.</u>		
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EXECUTIVE SUMMARY

ES.1 PERIOD OF REPORT COVERAGE

SCS Engineers (SCS), on behalf of the United States Gypsum Company, has completed the required groundwater sampling for the United States Gypsum – Sperry Landfill (Landfill). The purpose of this Annual Water Quality Report (AWQR) is to document and statistically evaluate the groundwater sampling results since the 2024 AWQR up to and including the 2025 annual sampling event. This AWQR was prepared in accordance with the requirements of the site permit and current requirements for implementation of the Hydrologic Monitoring System Plan (HMSP).

ES.2 REPORT PRIORITY

The following summarizes report priorities associated with groundwater compliance at the 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: In accordance with the DNR letter dated May 29, 2024 (Doc #110162), geochemical parameters were analyzed in numerous groundwater samples collected during the 2025 sampling event. Samples could not be collected from leachate piezometers as they were dry during the 2025 sampling event. Additional sampling and analysis will be performed in future sampling events to evaluate the source of sulfate and potential receptors in future reports.

ES.3 SITE STATUS AND APPLICABLE RULES

- Landfill Status: Closed, Closure Permit
- Types of waste accepted: Industrial
- Applicable IAC rules: 567-103 (effective date 9/16/1998)

ES.4 COMMENTS

The following summarizes points of special emphasis:

- Groundwater conditions at the site remain generally stable. Based on 2025 sampling results, sixteen monitoring well/constituent pairs were increasing at an 80% confidence level; however, the impact on groundwater from the Landfill appears limited.

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1.0 ACRONYMS/ABBREVIATIONS

AL = Action Level
CCV = Continuing Calibration Verification
CL = Control Limit - Mean plus Two Standard Deviations (+/- for pH)
DNR = Iowa Department of Natural Resources
DO = Dissolved Oxygen
GWPS = Groundwater Protection Standard
GWQAP = Groundwater Quality Assessment Plan
LEL = Lower Explosive Limit
LCL = Lower Confidence Limit
LCS = Laboratory Control Sample
LN = Lognormal
M+/-2SD = Mean Plus/Minus Two Standard Deviations
MCL = EPA Maximum Contaminant Level
MDL = Method Detection Limit
N = Normal
NC = No Change
NM = Not Measured
ORP = Oxidation-Reduction Potential
PL = Prediction Limit
QA = Quality Assurance
QC = Quality Control
RL = Reporting Limit
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

2.0 SITE BACKGROUND

2.1 SITE LOCATION

The United States Gypsum-Sperry Landfill is depicted in **Figure 1**, Approved Monitoring Network. The Landfill is located approximately 1¾ miles north of Sperry, Iowa and 1¾ miles south of Mediapolis, Iowa in the north half of Section 1, T71N, R3W, in Des Moines County, Iowa.

2.2 FACILITY

According to historical records, the United States Gypsum Company purchased the Landfill property in November 1963 and began landfilling at that time. The Landfill accepted gypsum and minor amounts of plant waste from 1963 to 1999. The facility has been under a closure permit since September 30, 1999. Prior to landfilling activities, this land was used for agricultural purposes and was not zoned.

2.3 GEOLOGY OF THE SITE

In the document entitled *Hydrogeological Investigation and Hydrologic Monitoring System Plan for the U.S. Gypsum Sanitary Landfill in Sperry, Iowa*, dated March 1992 and revised April 1993 by Montgomery Watson, hereafter referred to as the 1993 HIR (Doc #42894), the following geological description was provided:

The site is located in the Southern Iowa Drift Plain, which in western Des Moines County consists of flat uplands with steep hilly land near the stream valleys. Glacial drift deposits in the county from the Illinoian, Kansan, and Nebraskan glacial periods are usually covered by Wisconsin loess deposits. Soils at the site are part of the Clinton-Lindley Association and are described as loam, clay loam, and sandy loam. The average soil depth is 60 inches and the slope of the undisturbed area ranges from 2 to over 30%. In Des Moines County, bedrock is generally eroded Mississippian-aged limestones interbedded with shales. Devonian shales are found where Mississippian formations have been eroded away. In addition, structural deformation has occurred which has resulted in a regional tilt of all the formations to the southwest. It has also resulted in anticlines and synclines whose axes lie in a northwest-southeast direction. One such anticline runs through Mediapolis and is the dominant influence on the shape of the Devonian and older formations in the vicinity of the site.

According to the 1993 HIR, the following hydrogeologic information was provided:

The U.S. Gypsum Sanitary Landfill is located in the valley and tributary ravines of Yellow Spring Creek near its source. The westernmost ravines have been filled level with the adjacent uplands with waste. Trenches have also been filled near LW-2 and LW-1. Yellow Spring Creek itself has been diverted to run along the eastern edge of the valley and is separated by a dike from the current fill area. Surface water draining from the site and adjacent areas flows to Yellow Spring Creek. The ravines that extend outside the site boundaries are drained with tile lines.

Soil samples were taken by Shive-Hattery from SB-1, SB-2, and SB-3 and analyzed. Nine Shelby tube samples were also taken during the October 1991 drilling, one

each from [SB-3], SB-5, SB-7, SB-11, SB-12, SB-13, SB-15, SB-16, and SB-17, at depths between 5 and 32 feet bgs. All samples collected, except SB-5, were classified as CL in the Unified Soil Classification. SB-5 was classified as SC. In-situ permeability tests of these soils were measured using the undisturbed samples. These gave values ranging from 2.7×10^{-3} to 1.1×10^{-8} cm/sec. Soil borings drilled during the investigation show that bedrock is highest on the northwest corner of the site and sloped to both the south and east. A deeply eroded channel with alluvium deposits over the buried channel deposits is found at MW-5, MW-6/MW-7, and SB-18. The buried channel deposits are also found at MW-16/MW-19. Apparently, the buried channel ends at the limestone bedrock to the north and west of the site and extends to the south and east. Bedrock is Lower Mississippian limestones and interbedded shales except at MW-6. Since MW-6 drilled through approximately 20 feet of shale without encountering any limestone and nearby well logs indicate that the top of the Upper Devonian aquiclude is found at an elevation of approximately 660 feet NGVD, it is likely that the shales found in MW-6 are from the Upper Devonian.

Three of the four vertical hydraulic gradients measured were positive, indicating flow from the uppermost aquifer, the combined limestone and buried channel, to the water table. They varied from 0.042 feet/foot for well cluster MW-13/MW-14 to 0.322 feet/foot for well cluster MW-9/MW-10 to 0.178 feet/foot for well cluster MW-6/MW-7. The only negative gradient in well cluster MW-16/MW-19 was -0.905 foot/foot. The water table appears to be topographically controlled. The water table is probably recharged by flow from the lower aquifers in all places except the higher recharge area around MW-15 and MW-16/MW-19. Additional evidence of this comes from MW-12, the only bedrock aquifer that is also a water table well. This is the only bedrock well in which part of the limestone unit was dry. The Mississippian limestone and buried channel deposits are probably hydraulically connected and form the uppermost aquifer on site. The Geological Survey Bureau of the IDNR indicates that Yellow Spring Creek is most likely to be in discharge, receiving water from the groundwater aquifer.

3.0 FIGURES DISCUSSION

The following figures are attached.

3.1 FIGURE 1 – APPROVED MONITORING NETWORK

The Landfill property and hydrologic monitoring system plan (HMSP) network is depicted in **Figure 1**. **Figure 1** indicates the locations of the monitoring wells.

3.2 FIGURE 2 – WATER TABLE AQUIFER GROUNDWATER CONTOURS

A groundwater contour map based on water levels measured in water table monitoring wells during the May 2025 groundwater sampling event is included in **Figure 2**. **Figure 2** indicates a generally northerly to northeasterly groundwater flow direction. Leachate wells were dry at the time of sampling.

3.3 FIGURE 3 – UPPERMOST WATER TABLE AQUIFER GROUNDWATER CONTOURS

A groundwater contour map based on water levels measured in the Uppermost Aquifer during the May 2025 annual groundwater sampling event is included as **Figure 3**. **Figure 3** indicates a generally northerly to northeasterly groundwater flow direction.

4.0 QA/QC SUMMARY

Date indicates the date(s) of sampling.

4.1 MAY 20, 2025 (2025 ANNUAL SAMPLING EVENT)

Based on the QA review, no samples were rejected as unusable due to QC failures. In general, the quality of the analytical data for this reporting period does not appear to have been compromised by analytical irregularities and results affected by QC anomalies are qualified with the appropriate data flags, which are listed in the laboratory report in **Appendix B-1**. Data validation documentation can be found in **Appendix B-2**.

5.0 ANALYTICAL DATA EVALUATION

Statistical evaluation in accordance with the DNR comment letter dated May 11, 2017 (Doc #89407) was conducted for the groundwater analytical data collected during the 2025 sampling event. The statistical evaluation for samples collected during the 2025 sampling event is located in **Appendix D** of this report.

5.1 DATA EVALUATION

Groundwater monitoring for the Landfill consists of sampling from two separate groundwater units. The water table contains two background monitoring wells located on the south side of the Landfill and five compliance monitoring wells, one located on the west side, three located on the north side, and one located on the east side. The uppermost aquifer contains two background monitoring wells located on the south and southwest sides of the Landfill and four compliance monitoring wells, one located on the north side, one located on the northeast side, and two located on the east side of the Landfill.

Concentrations of sulfate in background monitoring well MW-15 and compliance monitoring wells MW-11 and MW-12 have been largely consistent since sampling for these constituents began based on a review of concentrations listed in the Summary of Groundwater Chemistry in **Appendix C**. The MCL goal of 500 mg/L for sulfate established by DNR in the letter dated June 3, 1998 (Doc #42846) has generally been exceeded in background monitoring well MW-15 and compliance monitoring well MW-11 and only occasionally exceeded in compliance monitoring well MW-12.

Twelve prediction limit exceedances were measured based on 2025 sampling results as listed in **Table 1** compared to fourteen prediction limit exceedances measured based on 2024 sampling results reported in the 2024 AWQR. The largest number of prediction limit exceedances measured based on 2025 sampling results were attributed to chloride.

Exceedances of action or advisory levels were limited to two exceedances of the maximum contaminant level goal (MCLG) for sulfate in background water table monitoring well MW-15 and compliance water table monitoring well MW-11, and an action level exceedances for arsenic in monitoring well MW-7 as listed in **Table 9**.

5.2 TRENDING IN MONITORING WELLS

A statistically significant increasing trend at a 99% confidence level ($\alpha=0.01$) was identified in one monitoring well/constituent pair by Mann-Kendall analysis during this reporting period. The trend analysis is included in Attachment D of **Appendix D** of this report. The statistically significant trend was as follows:

Monitoring Point	Constituent	Trend
MW-15 (u)	Specific Conductance	Increasing

Although not necessarily statistically significant, the Mann-Kendall statistics can provide an indication of general trending in the data. Trend indications for wells in the monitoring program are shown in the table below. The statistics used to develop the general trending differ from the Mann-Kendall statistics used in the diagnostics section of the statistical evaluation in that a much lower trend threshold is applied for the general trending information ($\alpha=0.20$ versus $\alpha=0.01$). Trends classified as decreasing or increasing exhibited a statistically significant trend with 80% confidence using the most recent eight data points. Trends classified as stable did not exhibit a statistically

significant trend with 80% confidence using the eight most recent data points. A summary of Mann-Kendall statistics by constituent in each monitoring point is included in **Appendix E** of this report.

Trending in Monitoring Wells					
Aquifer	Monitoring Well	Decreasing Trends	Stable Trends	Increasing Trends	Number of Constituents Analyzed
Water Table Aquifer	MW-15 (b)	16.67%	50.00%	33.33%	6
	MW-16 (b)	0.00%	80.00%	20.00%	5
	MW-7	0.00%	85.71%	14.29%	7
	MW-10	25.00%	50.00%	25.00%	4
	MW-11	0.00%	83.33%	16.67%	6
	MW-12	0.00%	83.33%	16.67%	6
	MW-14	0.00%	80.00%	20.00%	5
Uppermost Aquifer	MW-13 (b)	0.00%	60.00%	40.00%	5
	MW-19 (b)	16.67%	83.33%	0.00%	6
	MW-5	0.00%	100.00%	0.00%	5
	MW-6	0.00%	40.00%	60.00%	5
	MW-8	16.67%	66.67%	16.67%	6
	MW-9	16.67%	50.00%	33.33%	6
Combined	Site Wide	6.94%	70.83%	22.22%	72

(b) indicates a background monitoring point.

Review of the Mann-Kendall statistics indicated that approximately 78% of the Mann-Kendall statistics were considered stable or decreasing following the 2025 annual statistical evaluation with five of the decreasing trends being pH. There were sixteen monitoring well/constituent pairs with a generally increasing trend, nine of which were specific conductance. The monitoring well/constituent pairs with increasing trends and decreasing pH trends are discussed in the following table.

Monitoring Well	Constituent Name	Comments
MW-6	Iron	Based on eight actual detections. Highest concentration of 4.01 mg/L measured in 2025. These detections were below the historical maximum of 8.16 mg/L measured in 2018.
MW-6	Nitrogen-Ammonia	Based on eight actual detections. Highest concentration of 0.694 mg/L measured in 2025. The Health Advisory Level (HAL) for Nitrogen-Ammonia is 30.0 mg/L.
MW-6	Specific Conductance	Based on eight measurements. Highest measurement of 723.6 μ S/cm measured in 2024.
MW-7	Nitrogen-Ammonia	Based on eight actual detections. Highest concentration of 0.396 mg/L measured in 2023.
MW-8	Specific Conductance	Based on eight measurements. Highest measurement of 696.6 μ S/cm measured in 2024.

Monitoring Well	Constituent Name	Comments
MW-9	Nitrogen-Ammonia	Based on eight actual detections. Highest concentration of 0.294 mg/L measured in 2022. The Health Advisory Level (HAL) for Nitrogen-Ammonia is 30.0 mg/L.
MW-9	Specific Conductance	Based on eight measurements. Highest measurement of 712.8 μ S/cm measured in 2024.
MW-10	Specific Conductance	Based on eight measurements. Highest measurement of 1460.2 μ S/cm measured in 2025.
MW-11	Specific Conductance	Based on eight measurements. Highest measurement of 2650.9 μ S/cm measured in 2024.
MW-12	COD	Based on six actual detections and two non-detects. Highest concentration of 36.7 mg/L measured in 2025.
MW-13 (b)	Nitrogen-Ammonia	Based on eight actual detections. Highest concentration of 0.388 mg/L measured in 2024. The Health Advisory Level (HAL) for Nitrogen-Ammonia is 30.0 mg/L.
MW-13 (b)	Specific Conductance	Based on eight measurements. Highest measurement of 665.3 μ S/cm measured in 2024.
MW-14	Specific Conductance	Based on eight measurements. Highest measurement of 876.6 μ S/cm measured in 2024.
MW-15	Specific Conductance	Based on eight measurements. Highest measurement of 2197.8 μ S/cm measured in 2025.
MW-15 (b)	Sulfate	Based on eight actual detections. Highest concentration of 1,040 mg/L measured in 2025.
MW-16 (b)	Specific Conductance	Based on eight measurements. Highest measurement of 803 μ S/cm measured in 2024.
MW-8	pH (decreasing)	Based on eight measurements. Range of pH measurements between 7.00 and 7.16 S.U.
MW-9	pH (decreasing)	Based on eight measurements. Range of pH measurements between 7.02 and 7.16 S.U.
MW-10	pH (decreasing)	Based on eight measurements. Range of pH measurements between 6.69 and 6.84 S.U.
MW-15	pH (decreasing)	Based on eight measurements. Range of pH measurements between 6.47 and 6.74 S.U.
MW-19 (b)	pH (decreasing)	Based on eight measurements. Range of pH measurements between 6.94 and 7.28 S.U.

(b) indicates a background monitoring point.

Sixteen monitoring well/constituent pairs were found to be increasing at an 80% confidence level and all increasing concentrations were well below applicable action levels where identified, with the exception of the MCLG for sulfate in background monitoring well MW-15. The pH values of the five

monitoring well/constituent pairs found to be decreasing at an 80% confidence were all neutral to circumneutral. Overall, a generally continued stability of groundwater quality at the site was noted.

6.0 RECOMMENDATIONS

6.1 SITE IMPACT ON GROUNDWATER

Groundwater conditions at the site remain generally stable. Based on 2025 sampling results, sixteen monitoring well/constituent pairs were found to be increasing at an 80% confidence level and five monitoring well/constituent pairs for pH were found to be decreasing at an 80% confidence level; however, the impact on groundwater from the Landfill appears limited.

6.2 PROPOSED MONITORING

The groundwater monitoring program is summarized in **Table 1**. No changes to the HMSP monitoring program are recommended at this time. It is recommended that sampling continue for calendar year 2025 as summarized in **Table 2** and as required by the DNR letter dated February 2, 2023 (Doc #105739). In accordance with the DNR letter dated May 29, 2024 (Doc # 110162), evaluation of the source of the sulfate and potential receptors will be performed in future reports.

6.3 PROPOSED MONITORING WELL CHANGES

Monitoring well performance is summarized in **Table 4**. No proposed changes to the existing monitoring wells are recommended at this time.

Tables

- 1 Monitoring Program Summary
- 2 Monitoring Program Implementation Schedule
- 3 Monitoring Well Maintenance and Performance Re-Evaluation Schedule
- 4 Monitoring Well Performance and Maintenance Summary
- 5 Background and GWPS Summary
- 6 Summary of Well/Detected Constituent Pairs with No Immediately Preceding Control Limit Exceedances
- 7 Summary Table of Ongoing and Newly Identified Control Limit Exceedances
- 8 Summary of Groundwater Chemistry
- 9 Historical Control and Action Level Exceedances
- 10 Groundwater Quality Assessment Plan Trend Analysis

Table 1
Monitoring Program Summary
2025 Annual Water Quality Report
United States Gypsum-Sperry Landfill
Permit No. 29-SDP-04-89C

Monitoring Well	Formation ⁽¹⁾	Current Monitoring Program	Change for Next Sampling Event	Prediction Limit Exceedances	Total Number of Samples in Each Monitoring Program Since January 1, 2018		
					Routine	Supplemental	Remedial Action
HMSP Monitoring Points - Water Table							
MW-15	Silty Clay/Sand/Sandy Silty Clay	Background	None	-	10	-	-
MW-16	Clayey Silt/Sandy Silty Clay	Background	None	Not Sampled - Insufficient Water	10	-	-
MW-7	Sandy Silt/silty Sand/Sandy Clay	Detection	None	Chloride, Iron	10	-	-
MW-10	Sandy Silt/Clayey Sand/Sand and Gravel	Detection	None	Chloride	10	-	-
MW-11	Silty Clay/Sand/Sandy Silty Clay	Detection	None	Chloride, Iron, Specific Conductance	10	-	-
MW-12	Sandy Silty Clay/Shaly Limestone/Limestone	Detection	None	COD, Chloride	10	-	-
MW-14	Sandy/Clayey silt/Sandy Silty Clay/Sand	Detection	None	Chloride	10	-	-
HMSP Monitoring Points - Uppermost Aquifer							
MW-13	Silty Clay/Sandy Clayey Silt/Sand/Limestone	Background	None	-	10	-	-
MW-19	Clayey Silt/Sandy Silty Clay/Sand	Background	None	-	10	-	-
MW-5	Sandy Silty Lean Clay/Clayey Sand/Sand	Detection	None	Chloride, pH	10	-	-
MW-6	Silty Sand/Sandy Clay/Shale	Detection	None	Iron	10	-	-
MW-8	Sandy Clayey Silt/Silt/Limestone	Detection	None	-	10	-	-
MW-9	Sandy Silt/Clayey Sand/Shale/Limestone	Detection	None	-	10	-	-

Notes:

⁽¹⁾ Obtained from screened interval on boring logs.

Table 2
Monitoring Program Implementation Schedule
2025 Annual Water Quality Report
United States Gypsum-Sperry Landfill
Permit No. 29-SDP-04-89C

Monitoring Well	Recent Sampling Dates and Constituents	Upcoming Sampling Dates and Constituents
	5/20/2025	2026 Annual Sampling Event
HMSP Monitoring Wells - Water Table		
MW-15	Ammonia-Nitrogen, Bicarbonate, Carbonate, Calcium, COD, Chloride, pH, Iron, Magnesium, Potassium, Specific Conductance, Sodium, Sulfate	Ammonia-Nitrogen, Bicarbonate, Carbonate, Calcium, COD, Chloride, pH, Iron, Magnesium, Potassium, Specific Conductance, Sodium, Sulfate
MW-16	Not Sampled - Insufficient Water	Ammonia-Nitrogen, Bicarbonate, Carbonate, Calcium, COD, Chloride, pH, Iron, Magnesium, Potassium, Specific Conductance, Sodium, Sulfate
MW-7	Ammonia-Nitrogen, Bicarbonate, Carbonate, Calcium, COD, Chloride, pH, Iron, Magnesium, Potassium, Specific Conductance, Sodium, Sulfate, Arsenic	Ammonia-Nitrogen, Bicarbonate, Carbonate, Calcium, COD, Chloride, pH, Iron, Magnesium, Potassium, Specific Conductance, Sodium, Sulfate, Arsenic
MW-10	Ammonia-Nitrogen, Bicarbonate, Carbonate, Calcium, COD, Chloride, pH, Iron, Magnesium, Potassium, Specific Conductance, Sodium, Sulfate	Ammonia-Nitrogen, Bicarbonate, Carbonate, Calcium, COD, Chloride, pH, Iron, Magnesium, Potassium, Specific Conductance, Sodium, Sulfate
MW-11	Ammonia-Nitrogen, Bicarbonate, Carbonate, Calcium, COD, Chloride, pH, Iron, Magnesium, Potassium, Specific Conductance, Sodium, Sulfate	Ammonia-Nitrogen, Bicarbonate, Carbonate, Calcium, COD, Chloride, pH, Iron, Magnesium, Potassium, Specific Conductance, Sodium, Sulfate
MW-12	Ammonia-Nitrogen, Bicarbonate, Carbonate, Calcium, COD, Chloride, pH, Iron, Magnesium, Potassium, Specific Conductance, Sodium, Sulfate	Ammonia-Nitrogen, Bicarbonate, Carbonate, Calcium, COD, Chloride, pH, Iron, Magnesium, Potassium, Specific Conductance, Sodium, Sulfate
MW-14	Ammonia-Nitrogen, Bicarbonate, Carbonate, Calcium, COD, Chloride, pH, Iron, Magnesium, Potassium, Specific Conductance, Sodium, Sulfate	Ammonia-Nitrogen, Bicarbonate, Carbonate, Calcium, COD, Chloride, pH, Iron, Magnesium, Potassium, Specific Conductance, Sodium, Sulfate
HMSP Monitoring Wells - Uppermost Aquifer		
MW-13	Ammonia-Nitrogen, Bicarbonate, Carbonate, Calcium, COD, Chloride, pH, Iron, Magnesium, Potassium, Specific Conductance, Sodium, Sulfate	Ammonia-Nitrogen, Bicarbonate, Carbonate, Calcium, COD, Chloride, pH, Iron, Magnesium, Potassium, Specific Conductance, Sodium, Sulfate
MW-19	Ammonia-Nitrogen, Bicarbonate, Carbonate, Calcium, COD, Chloride, pH, Iron, Magnesium, Potassium, Specific Conductance, Sodium, Sulfate	Ammonia-Nitrogen, Bicarbonate, Carbonate, Calcium, COD, Chloride, pH, Iron, Magnesium, Potassium, Specific Conductance, Sodium, Sulfate
MW-5	Ammonia-Nitrogen, Bicarbonate, Carbonate, Calcium, COD, Chloride, pH, Iron, Magnesium, Potassium, Specific Conductance, Sodium, Sulfate	Ammonia-Nitrogen, Bicarbonate, Carbonate, Calcium, COD, Chloride, pH, Iron, Magnesium, Potassium, Specific Conductance, Sodium, Sulfate
MW-6	Ammonia-Nitrogen, Bicarbonate, Carbonate, Calcium, COD, Chloride, pH, Iron, Magnesium, Potassium, Specific Conductance, Sodium, Sulfate	Ammonia-Nitrogen, Bicarbonate, Carbonate, Calcium, COD, Chloride, pH, Iron, Magnesium, Potassium, Specific Conductance, Sodium, Sulfate
MW-8	Ammonia-Nitrogen, Bicarbonate, Carbonate, Calcium, COD, Chloride, pH, Iron, Magnesium, Potassium, Specific Conductance, Sodium, Sulfate	Ammonia-Nitrogen, Bicarbonate, Carbonate, Calcium, COD, Chloride, pH, Iron, Magnesium, Potassium, Specific Conductance, Sodium, Sulfate
MW-9	Ammonia-Nitrogen, Bicarbonate, Carbonate, Calcium, COD, Chloride, pH, Iron, Magnesium, Potassium, Specific Conductance, Sodium, Sulfate	Ammonia-Nitrogen, Bicarbonate, Carbonate, Calcium, COD, Chloride, pH, Iron, Magnesium, Potassium, Specific Conductance, Sodium, Sulfate

Table 3
Monitoring Well Maintenance and Performance Re-Evaluation Schedule
2025 Annual Water Quality Report
United States Gypsum-Sperry Landfill

Compliance with:	2023	2024	2025	2026
567 IAC 114.21(2)"a" high and low water levels	Completed	Completed	Included	Scheduled
567 IAC 114.21(2)"b" changes in the hydrologic setting and flow paths	Completed	Completed	Included	Scheduled
567 IAC 114.21(2)"c" well depths	Completed	Completed	Included	Scheduled
567 IAC 114.21(2)"d" in-situ permeability tests	Completed		Included	

Comments:

In-situ permeability testing was replaced with biennial well recharge rate evaluation in DNR correspondence dated September 19, 2016 (Doc# 87235)

Table 4
Monitoring Well Performance and Maintenance Summary
2025 Annual Water Quality Report
United States Gypsum-Sperry Landfill
Permit No. 29-SDP-04-89C

Well	Top of Casing	Top of Screen	Total Depth		Date of Measurements	Maximum Depth Discrepancy (ft)	Initial Flow Rate (L/min)* 4/4/2017	Recent Flow Rate (L/min)	
					5/21/2025			5/21/2025	% Change
MW-5	703.32	682.52	25.8	Groundwater Level (ft)	ARTESIAN	1.1	0.325	0.150	-54%
				Groundwater Elevation (Ft MSL)	ARTESIAN				
				Measured Well Depth (ft)	24.7				
				Submerged screen	Y				
MW-6	700.43	639.03	71.4	Groundwater Level (ft)	ARTESIAN	-0.5	0.225	0.158	-30%
				Groundwater Elevation (Ft MSL)	ARTESIAN				
				Measured Well Depth (ft)	71.9				
				Submerged screen	Y				
MW-7	701.20	686.00	25.2	Groundwater Level (ft)	10.18	0.5	0.205	0.167	-19%
				Groundwater Elevation (Ft MSL)	691.02				
				Measured Well Depth (ft)	24.7				
				Submerged screen	Y				
MW-8	701.61	686.71	24.9	Groundwater Level (ft)	3.07	-0.2	0.225	0.150	-33%
				Groundwater Elevation (Ft MSL)	698.54				
				Measured Well Depth (ft)	25.1				
				Submerged screen	Y				
MW-9	706.36	683.76	32.6	Groundwater Level (ft)	5.90	-0.2	0.245	0.158	-35%
				Groundwater Elevation (Ft MSL)	700.46				
				Measured Well Depth (ft)	32.8				
				Submerged screen	Y				
MW-10	706.22	696.22	15.0	Groundwater Level (ft)	8.14	4.0	0.175	0.150	-14%
				Groundwater Elevation (Ft MSL)	698.08				
				Measured Well Depth (ft)	11.0				
				Submerged screen	Y				
MW-11	720.00	707.10	22.9	Groundwater Level (ft)	6.14	-0.2	0.250	0.150	-40%
				Groundwater Elevation (Ft MSL)	713.86				
				Measured Well Depth (ft)	23.1				
				Submerged screen	Y				
MW-12	754.63	716.63	48.0	Groundwater Level (ft)	33.71	3.4	0.215	0.175	-19%
				Groundwater Elevation (Ft MSL)	720.92				
				Measured Well Depth (ft)	44.6				
				Submerged screen	Y				
MW-13	757.10	696.10	71.0	Groundwater Level (ft)	33.90	0.5	0.183	0.158	-13%
				Groundwater Elevation (Ft MSL)	723.20				
				Measured Well Depth (ft)	70.5				
				Submerged screen	Y				
MW-14	757.83	724.83	43.0	Groundwater Level (ft)	35.20	-0.1	0.175	0.175	0%
				Groundwater Elevation (Ft MSL)	722.63				
				Measured Well Depth (ft)	43.1				
				Submerged screen	N				
MW-15	747.86	729.86	28.0	Groundwater Level (ft)	7.88	-0.3	0.200	0.183	-8%
				Groundwater Elevation (Ft MSL)	739.98				
				Measured Well Depth (ft)	28.3				
				Submerged screen	Y				
MW-16	760.24	729.74	40.5	Groundwater Level (ft)	34.64	0.2	0.195	NA	NA
				Groundwater Elevation (Ft MSL)	725.60				
				Measured Well Depth (ft)	40.3				
				Submerged screen	N				
MW-19	761.22	700.02	71.2	Groundwater Level (ft)	40.79	-0.8	0.208	0.192	-8%
				Groundwater Elevation (Ft MSL)	720.43				
				Measured Well Depth (ft)	72.0				
				Submerged screen	Y				

Comments:

- 1) Measured well depths were within 1.0 foot of the installed depth with the following exceptions:
MW-5, MW-10, and MW-12: Monitoring wells MW-5, MW-10, and MW-12 measured between approximately 1.1 and 4.0 feet shallower than the installed depths during the 2025 sampling event. These measurements are consistent with a majority of previous measurements of total well depth in these monitoring wells. Additionally, since these monitoring wells produce sufficient groundwater for sampling it is likely that the wells are functioning adequately.

Table 5
Background and GWPS Summary
2025 Annual Water Quality Report
United States Gypsum-Sperry Landfill
Permit No. 29-SDP-04-89C

Interwell Background/GWPS (MW-15 & MW-16)

Constituent	Units	Samples	Detections	Min	Max	Mean	Statistical Test	Action Level	Source
Water Table									
Chemical Oxygen Demand	mg/L	41	15	2.5 (1/2 RL)	12.8	4.39	PL	-	-
Chloride	mg/L	41	41	7.97	17	11.20	PL	250 mg/L	SMCL
Iron	mg/L	21	5	0.0493*	5.32	0.35	PL	-	-
Nitrogen, Ammonia	mg/L	41	3	0.1 (1/2 RL)	0.63	0.12	PL	30.0 mg/L	HAL
pH	S.U.	42	42	6.47	8.6	7.21	PL	6.5-8.5 S.U.	SMCL
Specific Conductance	µS/cm	42	42	264	2198	1222	PL	-	-

Interwell Background/GWPS (MW-13 & MW-19)

Constituent	Units	Samples	Detections	Min	Max	Mean	Statistical Test	Action Level	Source
Uppermost Aquifer									
Chemical Oxygen Demand	mg/L	42	14	2.5 (1/2 RL)	20.7	4.12	PL	-	-
Chloride	mg/L	42	21	1.48*	4.58	2.68	PL	250 mg/L	SMCL
Iron	mg/L	22	16	0.05 (1/2 RL)	2.21	0.45	PL	-	-
Nitrogen, Ammonia	mg/L	42	25	0.065	0.951	0.19	PL	30.0 mg/L	HAL
pH	S.U.	42	42	6.94	8.26	7.38	PL	6.5-8.5 S.U.	SMCL
Specific Conductance	µS/cm	42	42	512	1205	688	PL	-	-

Notes:

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

Acronyms/Abbreviations:

RL = Reporting Limit

GWPS = Groundwater Protection Standard

SSS = Site-Specific GWPS

SWS = Statewide Standard

HAL = Health Advisory Level

MCL = EPA Maximum Contaminant Level

PL = Prediction Limits

SMCL = Secondary Maximum Contaminant Level

MCLG = Maximum Contaminant Level Goal

Comments:

- 1) **Water quality results and effectiveness of the statistical data evaluation criteria:** Statistical evaluations consist of prediction limits.
- 2) **Changes to the previous statistical method during reporting period:** None.

Table 6
Summary of Well/Detected Constituent Pairs With No Immediately Preceding Prediction Limit Exceedances
2025 Annual Water Quality Report
United States Gypsum-Sperry Landfill
Permit No. 29-SDP-04-89C

Water Table

Well	Constituent	Units	Most Recent Result	Background Standard
MW-12	COD	mg/L	36.7	12.8

Uppermost Aquifer

Well	Constituent	Units	Most Recent Result	Background Standard
MW-5	pH	mg/L	6.78	6.94 - 8.26
MW-6	Iron	mg/L	4.01	2.21

Comments:

- 1) **Problems with the current HMSP network:** None.
- 2) **Schedule to implement remedies:** Not applicable.
- 3) **Alternative constituent or sample frequency changes:** None.
- 4) **Significant changes to prediction limits:** None.
- 5) **Resampling strategy:** None; there are currently no wells in the detection monitoring

Table 7
Summary Table of Ongoing and Newly Identified Prediction Limit Exceedances
2025 Annual Water Quality Report
United States Gypsum-Sperry Landfill
Permit No. 29-SDP-04-89C

Key

	Denotes ongoing control limit exceedances that were identified as control limit exceedances during this reporting period and the previous reporting period at least once during each reporting period.
	Denotes newly identified control limit exceedances in the 2025 reporting period. Newly identified is defined as occurring at least once in the current reporting period but not in the immediately preceding reporting period.

Water Table

Well	Constituent	Units	Most Recent Result	Background Standard	Action Level/ Statewide Standard
MW-7	Chloride	mg/L	39.2	17	250
	Iron	mg/L	10.9	5.32	-
MW-10	Chloride	mg/L	40.6	17	250
MW-11	Chloride	mg/L	33.1	17	250
	Iron	mg/L	10.9	5.32	-
	Specific Conductance	µS/cm	2576	2197.8	-
MW-12	COD	mg/L	36.7	12.8	-
	Chloride	mg/L	25.2	17	250
MW-14	Chloride	mg/L	49.7	17	250

Uppermost Aquifer

Well	Constituent	Units	Most Recent Result	Background Standard	Action Level/ Statewide Standard
MW-5	Chloride	mg/L	13.8	4.58	250
	pH	mg/L	6.78	6.94 - 8.26	-
MW-6	Iron	mg/L	4.01	2.21	-

Notes: None.

Comments:

- 1) **Problems with the current HMSP network:** None.
- 2) **Proposed remedies:** None.
- 3) **Alternative constituent or sample frequency changes:** None.
- 4) **Plume delineation strategies:** See Section 6.3.
- 5) **Property owner notifications:** Not applicable.

Table 8
Summary of Groundwater Chemistry
2025 Annual Water Quality Report
United States Gypsum-Sperry Landfill
Permit No. 29-SDP-04-89C

The Summary of Groundwater Chemistry is located in Appendix C.

Table 9
Historical Prediction Limit & Action Level Exceedances
2025 Annual Water Quality Report
United States Gypsum-Sperry Landfill

Key

	Prediction Limit Exceedance
X	Action Level Exceedance

Water Table

Well	Constituent	2022	2023	2024	2025
MW-7	Arsenic			X	X
	COD				
	Chloride				
	Iron				
	Nitrogen-Ammonia				
MW-10	Chloride				
MW-11	COD				
	Chloride				
	Iron				
	Specific Conductance				
	Sulfate	X	X	X	X
MW-12	COD				
	Chloride				
MW-14	Chloride				

Uppermost Aquifer

Well	Constituent	2022	2023	2024	2025
MW-5	Chloride				
	Iron				
	pH				
MW-6	Nitrogen, Ammonia				
	Iron				
MW-8	Iron				

Table 10
Groundwater Quality Assessment Plan Trend Analysis
2025 Annual Water Quality Report
United States Gypsum-Sperry Landfill
Permit No. 29-SDP-04-89C

See Appendix E for Mann-Kendall Trend Analysis.

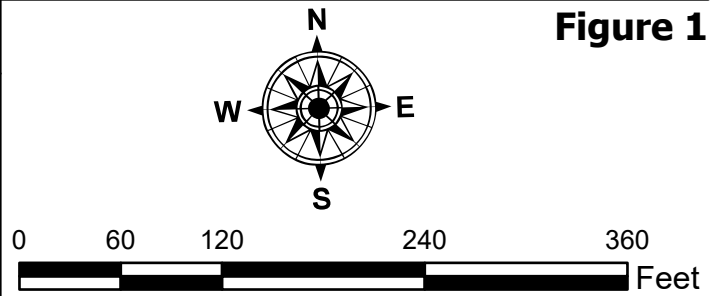
Figures

- 1 Approved Monitoring Network
- 2 Water Table Aquifer Groundwater Contours
- 3 Uppermost Water Table Aquifer Groundwater Contours

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Approved Monitoring Network		
Legend		
HMSP Monitoring Well	Approximate Fenceline	US Gypsum Landfill Sperry, Iowa Project No: 27225049.00 Drawing Date: August 2025
Approximate Monitoring Well Location	Creek/Stream	
Approximate Leachate Piezometer Location	Approximate Property Boundary	



ESRI, TomTom, Garmin, FAO, MET/NASA, USGS, Esri, COAR, USGS, USDA NAIP, Iowa State University GIS Facility



Water Table Aquifer Groundwater Contours

SCS
ENGINEERS
environmental consultants and contractors

Legend

Approximate Water Table
Groundwater Contour Based on
Field Measurements Taken on
May 20 & 21, 2025



Approximate Monitoring Well Location



Approximate Leachate
Piezometer Location



— Approximate Fenceline



- Creek/Stream



 Approximate Property Boundary

US Gypsum Landfill
Sperry, Iowa
Project No: 27225049.00
Drawing Date: August 2025

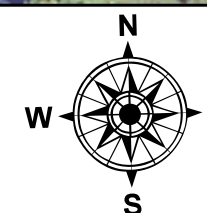


Figure 2

0 60 120 240 360

Feet



Uppermost Water Table Aquifer Groundwater Contours

Legend

- | | | |
|--|--------------------------------------|-------------------------------|
| Approximate Uppermost Water Table Groundwater Contour Based on Field Measurements Taken on May 20 & 21, 2025 | Approximate Monitoring Well Location | Approximate Fenceline |
| Approximate Leachate Piezometer Location | Creek/Stream | Approximate Property Boundary |

US Gypsum Landfill
Sperry, Iowa
Project No: 27225049.00
Drawing Date: August 2025

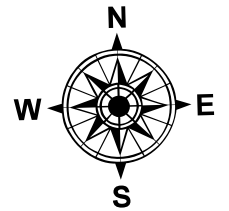


Figure 3

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Appendix A

Field Sampling Forms

FORM FOR GROUNDWATER SAMPLING

Project: UNITED STATES GYPSUM - SPERRY LANDFILL	
Monitoring Well/Piezometer ID: MW-5	Date: 5/21/2025
Gradient: Down	Sampler: Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped? Yes	
Litter/Standing Water? Yes	Standing water by the well

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	24.7
Initial Static Water Level (feet):	0.05
Initial Groundwater Elevation (ft-amsl):	700.38
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)	
11:23 AM	Purging start time.						
11:26 AM	11.6	0.3	1129.6	6.81	-13.2	3.2	
11:29 AM	11.7	0.2	1127.9	6.79	-15.3	3.6	
11:32 AM	11.5	0.1	1130.0	6.78	-17.6	4.2	
11:35 AM	11.7	0.2	1127.0	6.78	-19.8	6.2	
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: UNITED STATES GYPSUM - SPERRY LANDFILL	
Monitoring Well/Piezometer ID: MW-6	Date: 5/21/2025
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):	71.9
Initial Static Water Level (feet):	0.10
Initial Groundwater Elevation (ft-amsl):	700.33
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)	
10:28 AM	Purging start time.						
10:31 AM	12.0	0.6	694.3	7.38	-75.0	2.6	
10:34 AM	12.1	0.3	693.6	7.38	-83.6	1.5	
10:37 AM	12.2	0.2	693.9	7.37	-86.0	1.4	
10:40 AM	12.3	0.2	694.0	7.37	-88.6	8.6	
Parameters stabilized, sample collected.							

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

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

FORM FOR GROUNDWATER SAMPLING

Project: UNITED STATES GYPSUM - SPERRY LANDFILL	
Monitoring Well/Piezometer ID: MW-7	Date: 5/21/2025
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):	24.7
Initial Static Water Level (feet):	10.18
Initial Groundwater Elevation (ft-amsl):	691.02
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
10:52 AM	Purging start time.						
10:55 AM	12.1	0.4	1885.6	6.31	-4.4	12.2	
10:58 AM	12.0	0.2	1908.1	6.33	-4.8	93.0	
11:01 AM	12.1	0.2	1902.0	6.34	-5.7	94.1	
11:04 AM	12.3	0.1	1897.8	6.36	-6.4	32.0	
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: UNITED STATES GYPSUM - SPERRY LANDFILL	
Monitoring Well/Piezometer ID: MW-8	Date: 5/20/2025
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):	25.1
Initial Static Water Level (feet):	3.07
Initial Groundwater Elevation (ft-amsl):	698.54
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)	
3:34 PM	Purging start time.						
3:37 PM	13.9	0.5	688.4	7.12	139.0	3.7	
3:40 PM	13.9	0.3	669.2	7.10	137.6	9.9	
3:43 PM	14.2	0.2	664.9	7.09	137.9	13.2	
3:46 PM	14.3	0.1	668.6	7.08	137.5	20.6	
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: UNITED STATES GYPSUM - SPERRY LANDFILL	
Monitoring Well/Piezometer ID: MW-9	Date: 5/20/2025
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):	32.8
Initial Static Water Level (feet):	5.90
Initial Groundwater Elevation (ft-amsl):	700.46
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)	
2:30 PM	Purging start time.						
2:33 PM	14.3	0.5	828.0	7.08	3.3	2.9	
2:36 PM	14.1	0.3	704.2	7.08	19.8	3.6	
2:39 PM	14.0	0.2	686.8	7.08	33.3	5.6	
2:42 PM	13.8	0.2	685.1	7.07	43.4	11.5	
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

[illegible]

FORM FOR GROUNDWATER SAMPLING

Project: UNITED STATES GYPSUM - SPERRY LANDFILL	
Monitoring Well/Piezometer ID: MW-11	Date: 5/20/2025
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):	23.1
Initial Static Water Level (feet):	6.14
Initial Groundwater Elevation (ft-amsl):	713.86
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)	
1:43 PM	Purging start time.						
1:46 PM	15.6	0.5	2705.1	6.21	-28.9	17.0	
1:49 PM	15.3	0.3	2602.8	6.25	-18.1	35.7	
1:52 PM	15.7	0.2	2574.1	6.25	-15.2	15.2	
1:55 PM	15.3	0.2	2575.5	6.25	-12.9	52.8	
Parameters stabilized, sample collected.							

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

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

FORM FOR GROUNDWATER SAMPLING

Project: UNITED STATES GYPSUM - SPERRY LANDFILL	
Monitoring Well/Piezometer ID: MW-12	Date: 5/20/2025
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):	44.6
Initial Static Water Level (feet):	33.71
Initial Groundwater Elevation (ft-amsl):	720.92
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)	
1:12 PM	Purging start time.						
1:15 PM	14.6	3.6	1241.6	6.86	253.8	38.3	
1:18 PM	14.9	3.5	1244.7	6.85	253.9	26.0	
1:21 PM	15.0	3.4	1242.1	6.84	253.5	19.9	
1:24 PM	15.0	3.3	1252.2	6.83	253.2	18.1	
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-Cloudy Odor-None

FORM FOR GROUNDWATER SAMPLING

Project: UNITED STATES GYPSUM - SPERRY LANDFILL	
Monitoring Well/Piezometer ID: MW-13	Date: 5/20/2025
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):	70.5
Initial Static Water Level (feet):	33.90
Initial Groundwater Elevation (ft-amsl):	723.20
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)	
4:50 PM	Purging start time.						
4:53 PM	12.6	0.5	644.4	7.10	59.5	35.2	
4:56 PM	12.7	0.3	643.9	7.08	56.0	13.6	
4:59 PM	12.8	0.3	644.1	7.07	53.4	7.2	
5:02 PM	12.9	0.2	644.4	7.06	52.3	5.1	
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: UNITED STATES GYPSUM - SPERRY LANDFILL	
Monitoring Well/Piezometer ID: MW-14	Date: 5/20/2025
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):	43.1
Initial Static Water Level (feet):	35.20
Initial Groundwater Elevation (ft-amsl):	722.63
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)	
4:28 PM	Purging start time.						
4:31 PM	13.0	5.5	867.8	6.99	211.4	16.4	
4:34 PM	13.1	5.6	859.8	7.00	214.5	8.2	
4:37 PM	13.2	5.6	854.5	7.00	217.9	4.9	
4:40 PM	13.3	5.6	851.6	7.00	221.0	4.2	
Parameters stabilized, sample collected.							

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

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

FORM FOR GROUNDWATER SAMPLING

Project: UNITED STATES GYPSUM - SPERRY LANDFILL	
Monitoring Well/Piezometer ID: MW-15	Date: 5/21/2025
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):	28.3
Initial Static Water Level (feet):	7.88
Initial Groundwater Elevation (ft-amsl):	739.98
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)	
8:41 AM	Purging start time.						
8:44 AM	11.2	1.1	2124.9	6.49	225.8	5.4	
8:47 AM	11.2	0.4	2138.5	6.50	223.7	9.2	
8:50 AM	11.3	0.3	2163.9	6.50	221.1	22.0	
8:53 AM	11.3	0.3	2197.8	6.50	218.9	40.6	
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: UNITED STATES GYPSUM - SPERRY LANDFILL	
Monitoring Well/Piezometer ID: MW-16	Date: 5/21/2025
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):	40.3
Initial Static Water Level (feet):	0.00
Initial Groundwater Elevation (ft-amsl):	0.00
Equipment Used:	Dedicated Submersible

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
	Purging start time.						
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	0.0
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	
Average Purge Rate (mL/min):	0.00

D. WELL MAINTENANCE

Does the well require any future maintenance?	No
If yes, explain:	
Additional Comments:	SWL dropped below the pump and went dry before stabilization.

FORM FOR GROUNDWATER SAMPLING

Project: UNITED STATES GYPSUM - SPERRY LANDFILL	
Monitoring Well/Piezometer ID: MW-19	Date: 5/21/2025
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):	72.0
Initial Static Water Level (feet):	40.79
Initial Groundwater Elevation (ft-amsl):	720.43
Equipment Used:	Dedicated Submersible

C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
9:41 AM	Purging start time.						
9:44 AM	11.6	0.4	682.4	6.89	-49.1	13.6	
9:47 AM	11.9	0.3	680.3	6.90	-72.8	8.2	
9:50 AM	12.0	0.2	673.4	6.94	-83.6	8.2	
9:53 AM	12.1	0.2	668.2	6.97	-87.1	8.5	
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-Sulfur

Appendix B-1

Laboratory Analytical Data Sheets

ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/6/2025 2:06:06 PM

JOB DESCRIPTION

US Gypsum - Sperry Landfill Sampling 2025
US Gypsum-Sperry Landfill

JOB NUMBER

310-307093-1

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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Authorized for release by
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Case Narrative

Client: SCS Engineers
Project: US Gypsum - Sperry Landfill Sampling 2025

Job ID: 310-307093-1

Job ID: 310-307093-1

Eurofins Cedar Falls

Job Narrative 310-307093-1

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 5/22/2025 4:10 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 2.6°C and 3.8°C.

HPLC/IC

Method 9056A_ORGFM_28D: The following sample was diluted due to the nature of the sample matrix: MW-13 (310-307093-9). Elevated reporting limits (RLs) are provided.

Method 9056A_ORGFM_28D: The following sample was diluted due to the nature of the sample matrix: MW-6 (310-307093-2). 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: US Gypsum - Sperry Landfill Sampling 2025

Job ID: 310-307093-1
SDG: US Gypsum-Sperry Landfill

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-307093-1	MW-5	Water	05/21/25 11:44	05/22/25 16:10
310-307093-2	MW-6	Water	05/21/25 10:49	05/22/25 16:10
310-307093-3	MW-7	Water	05/21/25 11:13	05/22/25 16:10
310-307093-4	MW-8	Water	05/20/25 15:55	05/22/25 16:10
310-307093-5	MW-9	Water	05/20/25 14:58	05/22/25 16:10
310-307093-6	MW-10	Water	05/20/25 15:13	05/22/25 16:10
310-307093-7	MW-11	Water	05/20/25 14:04	05/22/25 16:10
310-307093-8	MW-12	Water	05/20/25 13:31	05/22/25 16:10
310-307093-9	MW-13	Water	05/20/25 17:10	05/22/25 16:10
310-307093-10	MW-14	Water	05/20/25 16:47	05/22/25 16:10
310-307093-11	MW-15	Water	05/21/25 09:01	05/22/25 16:10
310-307093-12	MW-19	Water	05/21/25 10:00	05/22/25 16:10
310-307093-13	MW-D	Water	05/20/25 14:58	05/22/25 16:10

Detection Summary

Client: SCS Engineers
Project/Site: US Gypsum - Sperry Landfill Sampling 2025

Job ID: 310-307093-1
SDG: US Gypsum-Sperry Landfill

Client Sample ID: MW-5

Lab Sample ID: 310-307093-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	13.8		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	158		5.00	2.10	mg/L	5		9056A	Total/NA
Calcium	143		0.500	0.190	mg/L	1		6020B	Total/NA
Iron	1.95		0.100	0.0500	mg/L	1		6020B	Total/NA
Magnesium	58.3		0.500	0.150	mg/L	1		6020B	Total/NA
Potassium	1.24		0.500	0.170	mg/L	1		6020B	Total/NA
Sodium	17.8		1.00	0.650	mg/L	1		6020B	Total/NA
Ammonia	0.134	J F1	0.200	0.110	mg/L	1		350.1	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	523		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	523		5.00	2.50	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-6

Lab Sample ID: 310-307093-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	8.39		5.00	2.10	mg/L	5		9056A	Total/NA
Calcium	51.8		0.500	0.190	mg/L	1		6020B	Total/NA
Iron	4.01		0.100	0.0500	mg/L	1		6020B	Total/NA
Magnesium	31.1		0.500	0.150	mg/L	1		6020B	Total/NA
Potassium	4.50		0.500	0.170	mg/L	1		6020B	Total/NA
Sodium	56.2		1.00	0.650	mg/L	1		6020B	Total/NA
Ammonia	0.694		0.200	0.110	mg/L	1		350.1	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	406		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	406		5.00	2.50	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-7

Lab Sample ID: 310-307093-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	39.2		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	243		5.00	2.10	mg/L	5		9056A	Total/NA
Arsenic	0.0190		0.00200	0.000530	mg/L	1		6020B	Total/NA
Calcium	249		0.500	0.190	mg/L	1		6020B	Total/NA
Iron	10.9		0.100	0.0500	mg/L	1		6020B	Total/NA
Magnesium	104		2.00	0.600	mg/L	4		6020B	Total/NA
Potassium	2.44		0.500	0.170	mg/L	1		6020B	Total/NA
Sodium	37.3		1.00	0.650	mg/L	1		6020B	Total/NA
Ammonia	0.387		0.200	0.110	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	12.0		5.00	4.60	mg/L	1		5220D LL	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	903		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	903		5.00	2.50	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-8

Lab Sample ID: 310-307093-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2.38	J	5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	9.54		5.00	2.10	mg/L	5		9056A	Total/NA
Calcium	61.6		0.500	0.190	mg/L	1		6020B	Total/NA
Magnesium	32.6		0.500	0.150	mg/L	1		6020B	Total/NA
Potassium	1.66		0.500	0.170	mg/L	1		6020B	Total/NA
Sodium	38.1		1.00	0.650	mg/L	1		6020B	Total/NA
Ammonia	0.373		0.200	0.110	mg/L	1		350.1	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	383		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	383		5.00	2.50	mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers
Project/Site: US Gypsum - Sperry Landfill Sampling 2025

Job ID: 310-307093-1
SDG: US Gypsum-Sperry Landfill

Client Sample ID: MW-9

Lab Sample ID: 310-307093-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	2.71	J	5.00	2.25	mg/L	5			9056A	Total/NA
Sulfate	14.6		5.00	2.10	mg/L	5			9056A	Total/NA
Calcium	67.3		0.500	0.190	mg/L	1			6020B	Total/NA
Magnesium	37.5		0.500	0.150	mg/L	1			6020B	Total/NA
Potassium	1.48		0.500	0.170	mg/L	1			6020B	Total/NA
Sodium	34.6		1.00	0.650	mg/L	1			6020B	Total/NA
Ammonia	0.350		0.200	0.110	mg/L	1			350.1	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	401		5.00	2.50	mg/L	1			SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	401		5.00	2.50	mg/L	1			SM 2320B	Total/NA

Client Sample ID: MW-10

Lab Sample ID: 310-307093-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	40.6		5.00	2.25	mg/L	5			9056A	Total/NA
Sulfate	398		5.00	2.10	mg/L	5			9056A	Total/NA
Calcium	177		0.500	0.190	mg/L	1			6020B	Total/NA
Magnesium	75.3		0.500	0.150	mg/L	1			6020B	Total/NA
Potassium	13.1		0.500	0.170	mg/L	1			6020B	Total/NA
Sodium	29.3		1.00	0.650	mg/L	1			6020B	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	418		5.00	2.50	mg/L	1			SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	418		5.00	2.50	mg/L	1			SM 2320B	Total/NA

Client Sample ID: MW-11

Lab Sample ID: 310-307093-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	33.1		20.0	9.00	mg/L	20			9056A	Total/NA
Sulfate	806		20.0	8.40	mg/L	20			9056A	Total/NA
Calcium	372		0.500	0.190	mg/L	1			6020B	Total/NA
Iron	10.4		0.100	0.0500	mg/L	1			6020B	Total/NA
Magnesium	150		2.00	0.600	mg/L	4			6020B	Total/NA
Potassium	2.05		0.500	0.170	mg/L	1			6020B	Total/NA
Sodium	39.6		1.00	0.650	mg/L	1			6020B	Total/NA
Ammonia	0.154	J	0.200	0.110	mg/L	1			350.1	Total/NA
Chemical Oxygen Demand	11.0		5.00	4.60	mg/L	1			5220D LL	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	988		5.00	2.50	mg/L	1			SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	988		5.00	2.50	mg/L	1			SM 2320B	Total/NA

Client Sample ID: MW-12

Lab Sample ID: 310-307093-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	25.2		20.0	9.00	mg/L	20			9056A	Total/NA
Sulfate	377		20.0	8.40	mg/L	20			9056A	Total/NA
Calcium	151		0.500	0.190	mg/L	1			6020B	Total/NA
Iron	0.137		0.100	0.0500	mg/L	1			6020B	Total/NA
Magnesium	59.7		0.500	0.150	mg/L	1			6020B	Total/NA
Potassium	0.581		0.500	0.170	mg/L	1			6020B	Total/NA
Sodium	30.1		1.00	0.650	mg/L	1			6020B	Total/NA
Ammonia	0.198	J	0.200	0.110	mg/L	1			350.1	Total/NA
Chemical Oxygen Demand	36.7		5.00	4.60	mg/L	1			5220D LL	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	342		5.00	2.50	mg/L	1			SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	342		5.00	2.50	mg/L	1			SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers
Project/Site: US Gypsum - Sperry Landfill Sampling 2025

Job ID: 310-307093-1
SDG: US Gypsum-Sperry Landfill

Client Sample ID: MW-13

Lab Sample ID: 310-307093-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Sulfate	7.59		5.00	2.10	mg/L		5		9056A	Total/NA
Calcium	62.5		0.500	0.190	mg/L		1		6020B	Total/NA
Magnesium	35.6		0.500	0.150	mg/L		1		6020B	Total/NA
Potassium	1.09		0.500	0.170	mg/L		1		6020B	Total/NA
Sodium	23.3		1.00	0.650	mg/L		1		6020B	Total/NA
Ammonia	0.297		0.200	0.110	mg/L		1		350.1	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	378		5.00	2.50	mg/L		1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	378		5.00	2.50	mg/L		1		SM 2320B	Total/NA

Client Sample ID: MW-14

Lab Sample ID: 310-307093-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	49.7		5.00	2.25	mg/L		5		9056A	Total/NA
Sulfate	34.6		5.00	2.10	mg/L		5		9056A	Total/NA
Calcium	93.6		0.500	0.190	mg/L		1		6020B	Total/NA
Magnesium	38.5		0.500	0.150	mg/L		1		6020B	Total/NA
Potassium	0.387	J	0.500	0.170	mg/L		1		6020B	Total/NA
Sodium	16.6		1.00	0.650	mg/L		1		6020B	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	311		5.00	2.50	mg/L		1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	311		5.00	2.50	mg/L		1		SM 2320B	Total/NA

Client Sample ID: MW-15

Lab Sample ID: 310-307093-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	12.0	J	20.0	9.00	mg/L		20		9056A	Total/NA
Sulfate	1040		20.0	8.40	mg/L		20		9056A	Total/NA
Calcium	339		0.500	0.190	mg/L		1		6020B	Total/NA
Magnesium	122		2.00	0.600	mg/L		4		6020B	Total/NA
Potassium	0.305	J	0.500	0.170	mg/L		1		6020B	Total/NA
Sodium	21.0		1.00	0.650	mg/L		1		6020B	Total/NA
Ammonia	0.630		0.200	0.110	mg/L		1		350.1	Total/NA
Chemical Oxygen Demand	6.94		5.00	4.60	mg/L		1		5220D LL	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	508		5.00	2.50	mg/L		1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	508		5.00	2.50	mg/L		1		SM 2320B	Total/NA

Client Sample ID: MW-19

Lab Sample ID: 310-307093-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	2.77	J	5.00	2.25	mg/L		5		9056A	Total/NA
Sulfate	9.20		5.00	2.10	mg/L		5		9056A	Total/NA
Calcium	80.3		0.500	0.190	mg/L		1		6020B	Total/NA
Iron	1.11		0.100	0.0500	mg/L		1		6020B	Total/NA
Magnesium	31.5		0.500	0.150	mg/L		1		6020B	Total/NA
Potassium	0.674		0.500	0.170	mg/L		1		6020B	Total/NA
Sodium	12.1		1.00	0.650	mg/L		1		6020B	Total/NA
Ammonia	0.951		0.200	0.110	mg/L		1		350.1	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	387		5.00	2.50	mg/L		1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	387		5.00	2.50	mg/L		1		SM 2320B	Total/NA

Client Sample ID: MW-D

Lab Sample ID: 310-307093-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	2.72	J	5.00	2.25	mg/L		5		9056A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers

Project/Site: US Gypsum - Sperry Landfill Sampling 2025

Job ID: 310-307093-1

SDG: US Gypsum-Sperry Landfill

Client Sample ID: MW-D (Continued)

Lab Sample ID: 310-307093-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	14.0		5.00	2.10	mg/L	5		9056A	Total/NA
Calcium	63.0		0.500	0.190	mg/L	1		6020B	Total/NA
Iron	0.130		0.100	0.0500	mg/L	1		6020B	Total/NA
Magnesium	35.4		0.500	0.150	mg/L	1		6020B	Total/NA
Potassium	1.36		0.500	0.170	mg/L	1		6020B	Total/NA
Sodium	32.3		1.00	0.650	mg/L	1		6020B	Total/NA
Ammonia	0.327		0.200	0.110	mg/L	1		350.1	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	398		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	398		5.00	2.50	mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: US Gypsum - Sperry Landfill Sampling 2025

Job ID: 310-307093-1
SDG: US Gypsum-Sperry Landfill

Client Sample ID: MW-5

Lab Sample ID: 310-307093-1

Date Collected: 05/21/25 11:44

Matrix: Water

Date Received: 05/22/25 16:10

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.8		5.00	2.25	mg/L			06/04/25 14:24	5
Sulfate	158		5.00	2.10	mg/L			06/04/25 14:24	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	143		0.500	0.190	mg/L		05/27/25 09:00	05/29/25 14:36	1
Iron	1.95		0.100	0.0500	mg/L		05/27/25 09:00	05/29/25 14:36	1
Magnesium	58.3		0.500	0.150	mg/L		05/27/25 09:00	05/29/25 14:36	1
Potassium	1.24		0.500	0.170	mg/L		05/27/25 09:00	05/29/25 14:36	1
Sodium	17.8		1.00	0.650	mg/L		05/27/25 09:00	05/29/25 14:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	0.134	J F1	0.200	0.110	mg/L			05/24/25 00:38	1
Chemical Oxygen Demand (SM 5220D LL)	<5.00		5.00	4.60	mg/L			06/02/25 10:31	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	523		5.00	2.50	mg/L			05/27/25 14:16	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	523		5.00	2.50	mg/L			05/27/25 14:16	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			05/27/25 14:16	1

Client Sample Results

Client: SCS Engineers
Project/Site: US Gypsum - Sperry Landfill Sampling 2025

Job ID: 310-307093-1
SDG: US Gypsum-Sperry Landfill

Client Sample ID: MW-6

Lab Sample ID: 310-307093-2

Date Collected: 05/21/25 10:49

Matrix: Water

Date Received: 05/22/25 16:10

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00		5.00	2.25	mg/L			06/04/25 14:39	5
Sulfate	8.39		5.00	2.10	mg/L			06/04/25 14:39	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	51.8		0.500	0.190	mg/L		05/27/25 09:00	05/29/25 14:38	1
Iron	4.01		0.100	0.0500	mg/L		05/27/25 09:00	05/29/25 14:38	1
Magnesium	31.1		0.500	0.150	mg/L		05/27/25 09:00	05/29/25 14:38	1
Potassium	4.50		0.500	0.170	mg/L		05/27/25 09:00	05/29/25 14:38	1
Sodium	56.2		1.00	0.650	mg/L		05/27/25 09:00	05/29/25 14:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	0.694		0.200	0.110	mg/L			05/24/25 00:40	1
Chemical Oxygen Demand (SM 5220D LL)	<5.00		5.00	4.60	mg/L			06/02/25 10:31	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	406		5.00	2.50	mg/L			05/27/25 14:28	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	406		5.00	2.50	mg/L			05/27/25 14:28	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			05/27/25 14:28	1

Client Sample Results

Client: SCS Engineers
Project/Site: US Gypsum - Sperry Landfill Sampling 2025

Job ID: 310-307093-1
SDG: US Gypsum-Sperry Landfill

Client Sample ID: MW-7

Lab Sample ID: 310-307093-3

Date Collected: 05/21/25 11:13

Matrix: Water

Date Received: 05/22/25 16:10

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39.2		5.00	2.25	mg/L			06/04/25 14:55	5
Sulfate	243		5.00	2.10	mg/L			06/04/25 14:55	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0190		0.00200	0.000530	mg/L		05/27/25 09:00	05/29/25 14:41	1
Calcium	249		0.500	0.190	mg/L		05/27/25 09:00	05/29/25 14:41	1
Iron	10.9		0.100	0.0500	mg/L		05/27/25 09:00	05/29/25 14:41	1
Magnesium	104		2.00	0.600	mg/L		05/27/25 09:00	05/30/25 15:25	4
Potassium	2.44		0.500	0.170	mg/L		05/27/25 09:00	05/29/25 14:41	1
Sodium	37.3		1.00	0.650	mg/L		05/27/25 09:00	05/29/25 14:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	0.387		0.200	0.110	mg/L			05/24/25 00:40	1
Chemical Oxygen Demand (SM 5220D LL)	12.0		5.00	4.60	mg/L			06/02/25 10:31	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	903		5.00	2.50	mg/L			05/27/25 14:38	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	903		5.00	2.50	mg/L			05/27/25 14:38	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			05/27/25 14:38	1

Client Sample Results

Client: SCS Engineers
Project/Site: US Gypsum - Sperry Landfill Sampling 2025

Job ID: 310-307093-1
SDG: US Gypsum-Sperry Landfill

Client Sample ID: MW-8

Lab Sample ID: 310-307093-4

Date Collected: 05/20/25 15:55

Matrix: Water

Date Received: 05/22/25 16:10

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.38	J	5.00	2.25	mg/L			05/28/25 17:12	5
Sulfate	9.54		5.00	2.10	mg/L			05/28/25 17:12	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	61.6		0.500	0.190	mg/L		05/27/25 09:00	05/29/25 14:43	1
Iron	<0.100		0.100	0.0500	mg/L		05/27/25 09:00	05/29/25 14:43	1
Magnesium	32.6		0.500	0.150	mg/L		05/27/25 09:00	05/29/25 14:43	1
Potassium	1.66		0.500	0.170	mg/L		05/27/25 09:00	05/29/25 14:43	1
Sodium	38.1		1.00	0.650	mg/L		05/27/25 09:00	05/29/25 14:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	0.373		0.200	0.110	mg/L			05/24/25 00:41	1
Chemical Oxygen Demand (SM 5220D LL)	<5.00		5.00	4.60	mg/L			06/02/25 10:31	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	383		5.00	2.50	mg/L			05/27/25 14:53	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	383		5.00	2.50	mg/L			05/27/25 14:53	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			05/27/25 14:53	1

Client Sample Results

Client: SCS Engineers
Project/Site: US Gypsum - Sperry Landfill Sampling 2025

Job ID: 310-307093-1
SDG: US Gypsum-Sperry Landfill

Client Sample ID: MW-9

Lab Sample ID: 310-307093-5

Date Collected: 05/20/25 14:58

Matrix: Water

Date Received: 05/22/25 16:10

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.71	J	5.00	2.25	mg/L			05/28/25 17:28	5
Sulfate	14.6		5.00	2.10	mg/L			05/28/25 17:28	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	67.3		0.500	0.190	mg/L		05/27/25 09:00	05/29/25 14:46	1
Iron	<0.100		0.100	0.0500	mg/L		05/27/25 09:00	05/29/25 14:46	1
Magnesium	37.5		0.500	0.150	mg/L		05/27/25 09:00	05/29/25 14:46	1
Potassium	1.48		0.500	0.170	mg/L		05/27/25 09:00	05/29/25 14:46	1
Sodium	34.6		1.00	0.650	mg/L		05/27/25 09:00	05/29/25 14:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	0.350		0.200	0.110	mg/L			05/24/25 00:42	1
Chemical Oxygen Demand (SM 5220D LL)	<5.00		5.00	4.60	mg/L			06/02/25 10:31	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	401		5.00	2.50	mg/L			05/27/25 15:10	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	401		5.00	2.50	mg/L			05/27/25 15:10	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			05/27/25 15:10	1

Client Sample Results

Client: SCS Engineers
Project/Site: US Gypsum - Sperry Landfill Sampling 2025

Job ID: 310-307093-1
SDG: US Gypsum-Sperry Landfill

Client Sample ID: MW-10

Lab Sample ID: 310-307093-6

Date Collected: 05/20/25 15:13

Matrix: Water

Date Received: 05/22/25 16:10

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.6		5.00	2.25	mg/L			05/28/25 17:43	5
Sulfate	398		5.00	2.10	mg/L			05/28/25 17:43	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	177		0.500	0.190	mg/L		05/27/25 09:00	05/29/25 14:55	1
Iron	<0.100		0.100	0.0500	mg/L		05/27/25 09:00	05/29/25 14:55	1
Magnesium	75.3		0.500	0.150	mg/L		05/27/25 09:00	05/29/25 14:55	1
Potassium	13.1		0.500	0.170	mg/L		05/27/25 09:00	05/29/25 14:55	1
Sodium	29.3		1.00	0.650	mg/L		05/27/25 09:00	05/29/25 14:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200	0.110	mg/L			05/24/25 00:43	1
Chemical Oxygen Demand (SM 5220D LL)	<5.00		5.00	4.60	mg/L			06/02/25 10:31	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	418		5.00	2.50	mg/L			05/27/25 15:21	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	418		5.00	2.50	mg/L			05/27/25 15:21	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			05/27/25 15:21	1

Client Sample Results

Client: SCS Engineers
Project/Site: US Gypsum - Sperry Landfill Sampling 2025

Job ID: 310-307093-1
SDG: US Gypsum-Sperry Landfill

Client Sample ID: MW-11

Lab Sample ID: 310-307093-7

Date Collected: 05/20/25 14:04

Matrix: Water

Date Received: 05/22/25 16:10

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.1		20.0	9.00	mg/L			05/28/25 17:59	20
Sulfate	806		20.0	8.40	mg/L			05/28/25 17:59	20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	372		0.500	0.190	mg/L		05/27/25 09:00	05/29/25 14:58	1
Iron	10.4		0.100	0.0500	mg/L		05/27/25 09:00	05/29/25 14:58	1
Magnesium	150		2.00	0.600	mg/L		05/27/25 09:00	05/30/25 15:40	4
Potassium	2.05		0.500	0.170	mg/L		05/27/25 09:00	05/29/25 14:58	1
Sodium	39.6		1.00	0.650	mg/L		05/27/25 09:00	05/29/25 14:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	0.154	J	0.200	0.110	mg/L			05/24/25 00:45	1
Chemical Oxygen Demand (SM 5220D LL)	11.0		5.00	4.60	mg/L			06/02/25 10:31	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	988		5.00	2.50	mg/L			05/27/25 16:24	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	988		5.00	2.50	mg/L			05/27/25 16:24	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			05/27/25 16:24	1

Client Sample Results

Client: SCS Engineers
Project/Site: US Gypsum - Sperry Landfill Sampling 2025

Job ID: 310-307093-1
SDG: US Gypsum-Sperry Landfill

Client Sample ID: MW-12

Lab Sample ID: 310-307093-8

Date Collected: 05/20/25 13:31

Matrix: Water

Date Received: 05/22/25 16:10

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.2		20.0	9.00	mg/L			05/28/25 18:15	20
Sulfate	377		20.0	8.40	mg/L			05/28/25 18:15	20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	151		0.500	0.190	mg/L		05/27/25 09:00	05/29/25 15:00	1
Iron	0.137		0.100	0.0500	mg/L		05/27/25 09:00	05/29/25 15:00	1
Magnesium	59.7		0.500	0.150	mg/L		05/27/25 09:00	05/29/25 15:00	1
Potassium	0.581		0.500	0.170	mg/L		05/27/25 09:00	05/29/25 15:00	1
Sodium	30.1		1.00	0.650	mg/L		05/27/25 09:00	05/29/25 15:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	0.198	J	0.200	0.110	mg/L			05/24/25 00:46	1
Chemical Oxygen Demand (SM 5220D LL)	36.7		5.00	4.60	mg/L			05/29/25 11:21	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	342		5.00	2.50	mg/L			05/27/25 16:41	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	342		5.00	2.50	mg/L			05/27/25 16:41	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			05/27/25 16:41	1

Client Sample Results

Client: SCS Engineers
Project/Site: US Gypsum - Sperry Landfill Sampling 2025

Job ID: 310-307093-1
SDG: US Gypsum-Sperry Landfill

Client Sample ID: MW-13

Lab Sample ID: 310-307093-9

Date Collected: 05/20/25 17:10

Matrix: Water

Date Received: 05/22/25 16:10

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00		5.00	2.25	mg/L			05/28/25 18:30	5
Sulfate	7.59		5.00	2.10	mg/L			05/28/25 18:30	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	62.5		0.500	0.190	mg/L		05/27/25 09:00	05/29/25 15:02	1
Iron	<0.100		0.100	0.0500	mg/L		05/27/25 09:00	05/29/25 15:02	1
Magnesium	35.6		0.500	0.150	mg/L		05/27/25 09:00	05/29/25 15:02	1
Potassium	1.09		0.500	0.170	mg/L		05/27/25 09:00	05/29/25 15:02	1
Sodium	23.3		1.00	0.650	mg/L		05/27/25 09:00	05/29/25 15:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	0.297		0.200	0.110	mg/L			05/24/25 00:47	1
Chemical Oxygen Demand (SM 5220D LL)	<5.00		5.00	4.60	mg/L			05/29/25 11:21	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	378		5.00	2.50	mg/L			05/27/25 16:51	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	378		5.00	2.50	mg/L			05/27/25 16:51	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			05/27/25 16:51	1

Client Sample Results

Client: SCS Engineers
Project/Site: US Gypsum - Sperry Landfill Sampling 2025

Job ID: 310-307093-1
SDG: US Gypsum-Sperry Landfill

Client Sample ID: MW-14

Lab Sample ID: 310-307093-10

Date Collected: 05/20/25 16:47

Matrix: Water

Date Received: 05/22/25 16:10

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.7		5.00	2.25	mg/L			06/04/25 15:10	5
Sulfate	34.6		5.00	2.10	mg/L			06/04/25 15:10	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	93.6		0.500	0.190	mg/L		05/27/25 09:00	05/29/25 15:05	1
Iron	<0.100		0.100	0.0500	mg/L		05/27/25 09:00	05/29/25 15:05	1
Magnesium	38.5		0.500	0.150	mg/L		05/27/25 09:00	05/29/25 15:05	1
Potassium	0.387	J	0.500	0.170	mg/L		05/27/25 09:00	05/29/25 15:05	1
Sodium	16.6		1.00	0.650	mg/L		05/27/25 09:00	05/29/25 15:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200	0.110	mg/L			05/24/25 00:48	1
Chemical Oxygen Demand (SM 5220D LL)	<5.00		5.00	4.60	mg/L			05/29/25 11:21	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	311		5.00	2.50	mg/L			05/27/25 17:08	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	311		5.00	2.50	mg/L			05/27/25 17:08	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			05/27/25 17:08	1

Client Sample Results

Client: SCS Engineers
Project/Site: US Gypsum - Sperry Landfill Sampling 2025

Job ID: 310-307093-1
SDG: US Gypsum-Sperry Landfill

Client Sample ID: MW-15

Lab Sample ID: 310-307093-11

Date Collected: 05/21/25 09:01

Matrix: Water

Date Received: 05/22/25 16:10

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.0	J	20.0	9.00	mg/L			06/04/25 15:26	20
Sulfate	1040		20.0	8.40	mg/L			06/04/25 15:26	20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	339		0.500	0.190	mg/L		05/27/25 09:00	05/29/25 15:07	1
Iron	<0.100		0.100	0.0500	mg/L		05/27/25 09:00	05/29/25 15:07	1
Magnesium	122		2.00	0.600	mg/L		05/27/25 09:00	05/30/25 15:43	4
Potassium	0.305	J	0.500	0.170	mg/L		05/27/25 09:00	05/29/25 15:07	1
Sodium	21.0		1.00	0.650	mg/L		05/27/25 09:00	05/29/25 15:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	0.630		0.200	0.110	mg/L			05/24/25 00:48	1
Chemical Oxygen Demand (SM 5220D LL)	6.94		5.00	4.60	mg/L			05/29/25 11:21	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	508		5.00	2.50	mg/L			05/27/25 17:18	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	508		5.00	2.50	mg/L			05/27/25 17:18	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			05/27/25 17:18	1

Client Sample Results

Client: SCS Engineers
Project/Site: US Gypsum - Sperry Landfill Sampling 2025

Job ID: 310-307093-1
SDG: US Gypsum-Sperry Landfill

Client Sample ID: MW-19

Lab Sample ID: 310-307093-12

Date Collected: 05/21/25 10:00

Matrix: Water

Date Received: 05/22/25 16:10

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.77	J	5.00	2.25	mg/L			06/04/25 15:41	5
Sulfate	9.20		5.00	2.10	mg/L			06/04/25 15:41	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	80.3		0.500	0.190	mg/L		05/27/25 09:00	05/29/25 15:10	1
Iron	1.11		0.100	0.0500	mg/L		05/27/25 09:00	05/29/25 15:10	1
Magnesium	31.5		0.500	0.150	mg/L		05/27/25 09:00	05/29/25 15:10	1
Potassium	0.674		0.500	0.170	mg/L		05/27/25 09:00	05/29/25 15:10	1
Sodium	12.1		1.00	0.650	mg/L		05/27/25 09:00	05/29/25 15:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	0.951		0.200	0.110	mg/L			05/24/25 00:50	1
Chemical Oxygen Demand (SM 5220D LL)	<5.00		5.00	4.60	mg/L			05/29/25 11:21	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	387		5.00	2.50	mg/L			05/27/25 17:29	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	387		5.00	2.50	mg/L			05/27/25 17:29	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			05/27/25 17:29	1

Client Sample Results

Client: SCS Engineers
Project/Site: US Gypsum - Sperry Landfill Sampling 2025

Job ID: 310-307093-1
SDG: US Gypsum-Sperry Landfill

Client Sample ID: MW-D

Lab Sample ID: 310-307093-13

Date Collected: 05/20/25 14:58

Matrix: Water

Date Received: 05/22/25 16:10

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.72	J	5.00	2.25	mg/L			06/04/25 15:57	5
Sulfate	14.0		5.00	2.10	mg/L			06/04/25 15:57	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	63.0		0.500	0.190	mg/L		05/27/25 09:00	05/29/25 15:12	1
Iron	0.130		0.100	0.0500	mg/L		05/27/25 09:00	05/29/25 15:12	1
Magnesium	35.4		0.500	0.150	mg/L		05/27/25 09:00	05/29/25 15:12	1
Potassium	1.36		0.500	0.170	mg/L		05/27/25 09:00	05/29/25 15:12	1
Sodium	32.3		1.00	0.650	mg/L		05/27/25 09:00	05/29/25 15:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	0.327		0.200	0.110	mg/L			05/24/25 00:50	1
Chemical Oxygen Demand (SM 5220D LL)	<5.00		5.00	4.60	mg/L			05/29/25 11:21	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	398		5.00	2.50	mg/L			05/27/25 17:39	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	398		5.00	2.50	mg/L			05/27/25 17:39	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			05/27/25 17:39	1

Definitions/Glossary

Client: SCS Engineers
Project/Site: US Gypsum - Sperry Landfill Sampling 2025

Job ID: 310-307093-1
SDG: US Gypsum-Sperry Landfill

Qualifiers

HPLC/IC

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

Glossary

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

QC Sample Results

Client: SCS Engineers
Project/Site: US Gypsum - Sperry Landfill Sampling 2025

Job ID: 310-307093-1
SDG: US Gypsum-Sperry Landfill

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 310-456112/3

Matrix: Water

Analysis Batch: 456112

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.00		1.00	0.450	mg/L			05/28/25 13:34	1
Sulfate	<1.00		1.00	0.420	mg/L			05/28/25 13:34	1

Lab Sample ID: LCS 310-456112/4

Matrix: Water

Analysis Batch: 456112

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.48		mg/L		105	90 - 110
Sulfate	10.0	10.65		mg/L		107	90 - 110

Lab Sample ID: MB 310-456802/3

Matrix: Water

Analysis Batch: 456802

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.00		1.00	0.450	mg/L			06/04/25 10:45	1
Sulfate	<1.00		1.00	0.420	mg/L			06/04/25 10:45	1

Lab Sample ID: LCS 310-456802/28

Matrix: Water

Analysis Batch: 456802

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.25		mg/L		102	90 - 110
Sulfate	10.0	10.35		mg/L		103	90 - 110

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-455681/1-A

Matrix: Water

Analysis Batch: 456147

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 455681

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/27/25 09:00	05/29/25 14:05	1
Calcium	<0.500		0.500	0.190	mg/L		05/27/25 09:00	05/29/25 14:05	1
Iron	<0.100		0.100	0.0500	mg/L		05/27/25 09:00	05/29/25 14:05	1
Magnesium	<0.500		0.500	0.150	mg/L		05/27/25 09:00	05/29/25 14:05	1
Potassium	<0.500		0.500	0.170	mg/L		05/27/25 09:00	05/29/25 14:05	1
Sodium	<1.00		1.00	0.650	mg/L		05/27/25 09:00	05/29/25 14:05	1

Lab Sample ID: LCS 310-455681/2-A

Matrix: Water

Analysis Batch: 456147

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 455681

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.2124		mg/L		106	80 - 120
Calcium	2.00	1.777		mg/L		89	80 - 120
Iron	0.200	0.2234		mg/L		112	80 - 120
Magnesium	2.00	2.121		mg/L		106	80 - 120

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QC Sample Results

Client: SCS Engineers
Project/Site: US Gypsum - Sperry Landfill Sampling 2025

Job ID: 310-307093-1
SDG: US Gypsum-Sperry Landfill

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

Lab Sample ID: LCS 310-455681/2-A

Matrix: Water

Analysis Batch: 456147

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 455681

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Potassium	2.00	2.113		mg/L		106	80 - 120
Sodium	2.00	2.215		mg/L		111	80 - 120

Lab Sample ID: 310-307093-5 DU

Matrix: Water

Analysis Batch: 456147

Client Sample ID: MW-9

Prep Type: Total/NA

Prep Batch: 455681

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Arsenic	<0.00200		<0.00200		mg/L		NC	20
Calcium	67.3		64.48		mg/L		4	20
Iron	<0.100		<0.100		mg/L		NC	20
Magnesium	37.5		36.14		mg/L		4	20
Potassium	1.48		1.432		mg/L		3	20
Sodium	34.6		33.39		mg/L		3	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 310-455691/82

Matrix: Water

Analysis Batch: 455691

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.200		0.200	0.110	mg/L			05/24/25 00:36	1

Lab Sample ID: LCS 310-455691/83

Matrix: Water

Analysis Batch: 455691

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	8.55	8.898		mg/L		104	90 - 110

Lab Sample ID: 310-307093-1 MS

Matrix: Water

Analysis Batch: 455691

Client Sample ID: MW-5

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	0.134	J F1	1.00	1.041		mg/L		91	90 - 110

Lab Sample ID: 310-307093-1 MSD

Matrix: Water

Analysis Batch: 455691

Client Sample ID: MW-5

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Ammonia	0.134	J F1	1.00	1.010	F1	mg/L		88	90 - 110	3	23

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QC Sample Results

Client: SCS Engineers
Project/Site: US Gypsum - Sperry Landfill Sampling 2025

Job ID: 310-307093-1
SDG: US Gypsum-Sperry Landfill

Method: 5220D LL - COD

Lab Sample ID: MB 310-456074/118
Matrix: Water
Analysis Batch: 456074

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			05/29/25 11:21	1

Lab Sample ID: MB 310-456074/90
Matrix: Water
Analysis Batch: 456074

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			05/29/25 11:20	1

Lab Sample ID: LCS 310-456074/91
Matrix: Water
Analysis Batch: 456074

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	122.2		mg/L		97	85 - 115

Lab Sample ID: MB 310-456320/5
Matrix: Water
Analysis Batch: 456320

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			06/02/25 10:31	1

Lab Sample ID: LCS 310-456320/3
Matrix: Water
Analysis Batch: 456320

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	121.9		mg/L		97	85 - 115

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 310-455861/2
Matrix: Water
Analysis Batch: 455861

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	1000	1018		mg/L		102	85 - 115

Lab Sample ID: LCS 310-455861/25
Matrix: Water
Analysis Batch: 455861

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	1000	997.7		mg/L		100	85 - 115

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QC Association Summary

Client: SCS Engineers
Project/Site: US Gypsum - Sperry Landfill Sampling 2025

Job ID: 310-307093-1
SDG: US Gypsum-Sperry Landfill

HPLC/IC

Analysis Batch: 456112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-307093-4	MW-8	Total/NA	Water	9056A	
310-307093-5	MW-9	Total/NA	Water	9056A	
310-307093-6	MW-10	Total/NA	Water	9056A	
310-307093-7	MW-11	Total/NA	Water	9056A	
310-307093-8	MW-12	Total/NA	Water	9056A	
310-307093-9	MW-13	Total/NA	Water	9056A	
MB 310-456112/3	Method Blank	Total/NA	Water	9056A	
LCS 310-456112/4	Lab Control Sample	Total/NA	Water	9056A	

Analysis Batch: 456802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-307093-1	MW-5	Total/NA	Water	9056A	
310-307093-2	MW-6	Total/NA	Water	9056A	
310-307093-3	MW-7	Total/NA	Water	9056A	
310-307093-10	MW-14	Total/NA	Water	9056A	
310-307093-11	MW-15	Total/NA	Water	9056A	
310-307093-12	MW-19	Total/NA	Water	9056A	
310-307093-13	MW-D	Total/NA	Water	9056A	
MB 310-456802/3	Method Blank	Total/NA	Water	9056A	
LCS 310-456802/28	Lab Control Sample	Total/NA	Water	9056A	

Metals

Prep Batch: 455681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-307093-1	MW-5	Total/NA	Water	3005A	
310-307093-2	MW-6	Total/NA	Water	3005A	
310-307093-3	MW-7	Total/NA	Water	3005A	
310-307093-4	MW-8	Total/NA	Water	3005A	
310-307093-5	MW-9	Total/NA	Water	3005A	
310-307093-6	MW-10	Total/NA	Water	3005A	
310-307093-7	MW-11	Total/NA	Water	3005A	
310-307093-8	MW-12	Total/NA	Water	3005A	
310-307093-9	MW-13	Total/NA	Water	3005A	
310-307093-10	MW-14	Total/NA	Water	3005A	
310-307093-11	MW-15	Total/NA	Water	3005A	
310-307093-12	MW-19	Total/NA	Water	3005A	
310-307093-13	MW-D	Total/NA	Water	3005A	
MB 310-455681/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-455681/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-307093-5 DU	MW-9	Total/NA	Water	3005A	

Analysis Batch: 456147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-307093-1	MW-5	Total/NA	Water	6020B	455681
310-307093-2	MW-6	Total/NA	Water	6020B	455681
310-307093-3	MW-7	Total/NA	Water	6020B	455681
310-307093-4	MW-8	Total/NA	Water	6020B	455681
310-307093-5	MW-9	Total/NA	Water	6020B	455681
310-307093-6	MW-10	Total/NA	Water	6020B	455681
310-307093-7	MW-11	Total/NA	Water	6020B	455681

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QC Association Summary

Client: SCS Engineers
Project/Site: US Gypsum - Sperry Landfill Sampling 2025

Job ID: 310-307093-1
SDG: US Gypsum-Sperry Landfill

Metals (Continued)

Analysis Batch: 456147 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-307093-8	MW-12	Total/NA	Water	6020B	455681
310-307093-9	MW-13	Total/NA	Water	6020B	455681
310-307093-10	MW-14	Total/NA	Water	6020B	455681
310-307093-11	MW-15	Total/NA	Water	6020B	455681
310-307093-12	MW-19	Total/NA	Water	6020B	455681
310-307093-13	MW-D	Total/NA	Water	6020B	455681
MB 310-455681/1-A	Method Blank	Total/NA	Water	6020B	455681
LCS 310-455681/2-A	Lab Control Sample	Total/NA	Water	6020B	455681
310-307093-5 DU	MW-9	Total/NA	Water	6020B	455681

Analysis Batch: 456239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-307093-3	MW-7	Total/NA	Water	6020B	455681
310-307093-7	MW-11	Total/NA	Water	6020B	455681
310-307093-11	MW-15	Total/NA	Water	6020B	455681

General Chemistry

Analysis Batch: 455691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-307093-1	MW-5	Total/NA	Water	350.1	
310-307093-2	MW-6	Total/NA	Water	350.1	
310-307093-3	MW-7	Total/NA	Water	350.1	
310-307093-4	MW-8	Total/NA	Water	350.1	
310-307093-5	MW-9	Total/NA	Water	350.1	
310-307093-6	MW-10	Total/NA	Water	350.1	
310-307093-7	MW-11	Total/NA	Water	350.1	
310-307093-8	MW-12	Total/NA	Water	350.1	
310-307093-9	MW-13	Total/NA	Water	350.1	
310-307093-10	MW-14	Total/NA	Water	350.1	
310-307093-11	MW-15	Total/NA	Water	350.1	
310-307093-12	MW-19	Total/NA	Water	350.1	
310-307093-13	MW-D	Total/NA	Water	350.1	
MB 310-455691/82	Method Blank	Total/NA	Water	350.1	
LCS 310-455691/83	Lab Control Sample	Total/NA	Water	350.1	
310-307093-1 MS	MW-5	Total/NA	Water	350.1	
310-307093-1 MSD	MW-5	Total/NA	Water	350.1	

Analysis Batch: 455861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-307093-1	MW-5	Total/NA	Water	SM 2320B	
310-307093-2	MW-6	Total/NA	Water	SM 2320B	
310-307093-3	MW-7	Total/NA	Water	SM 2320B	
310-307093-4	MW-8	Total/NA	Water	SM 2320B	
310-307093-5	MW-9	Total/NA	Water	SM 2320B	
310-307093-6	MW-10	Total/NA	Water	SM 2320B	
310-307093-7	MW-11	Total/NA	Water	SM 2320B	
310-307093-8	MW-12	Total/NA	Water	SM 2320B	
310-307093-9	MW-13	Total/NA	Water	SM 2320B	
310-307093-10	MW-14	Total/NA	Water	SM 2320B	
310-307093-11	MW-15	Total/NA	Water	SM 2320B	

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: US Gypsum - Sperry Landfill Sampling 2025

Job ID: 310-307093-1
SDG: US Gypsum-Sperry Landfill

General Chemistry (Continued)

Analysis Batch: 455861 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-307093-12	MW-19	Total/NA	Water	SM 2320B	
310-307093-13	MW-D	Total/NA	Water	SM 2320B	
LCS 310-455861/2	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 310-455861/25	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 456074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-307093-8	MW-12	Total/NA	Water	5220D LL	
310-307093-9	MW-13	Total/NA	Water	5220D LL	
310-307093-10	MW-14	Total/NA	Water	5220D LL	
310-307093-11	MW-15	Total/NA	Water	5220D LL	
310-307093-12	MW-19	Total/NA	Water	5220D LL	
310-307093-13	MW-D	Total/NA	Water	5220D LL	
MB 310-456074/118	Method Blank	Total/NA	Water	5220D LL	
MB 310-456074/90	Method Blank	Total/NA	Water	5220D LL	
LCS 310-456074/91	Lab Control Sample	Total/NA	Water	5220D LL	

Analysis Batch: 456320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-307093-1	MW-5	Total/NA	Water	5220D LL	
310-307093-2	MW-6	Total/NA	Water	5220D LL	
310-307093-3	MW-7	Total/NA	Water	5220D LL	
310-307093-4	MW-8	Total/NA	Water	5220D LL	
310-307093-5	MW-9	Total/NA	Water	5220D LL	
310-307093-6	MW-10	Total/NA	Water	5220D LL	
310-307093-7	MW-11	Total/NA	Water	5220D LL	
MB 310-456320/5	Method Blank	Total/NA	Water	5220D LL	
LCS 310-456320/3	Lab Control Sample	Total/NA	Water	5220D LL	

Lab Chronicle

Client: SCS Engineers
Project/Site: US Gypsum - Sperry Landfill Sampling 2025

Job ID: 310-307093-1
SDG: US Gypsum-Sperry Landfill

Client Sample ID: MW-5

Date Collected: 05/21/25 11:44

Date Received: 05/22/25 16:10

Lab Sample ID: 310-307093-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	456802	QTZ5	EET CF	06/04/25 14:24
Total/NA	Prep	3005A			455681	WK2X	EET CF	05/27/25 09:00
Total/NA	Analysis	6020B		1	456147	NFT2	EET CF	05/29/25 14:36
Total/NA	Analysis	350.1		1	455691	ZJX4	EET CF	05/24/25 00:38
Total/NA	Analysis	5220D LL		1	456320	ENB7	EET CF	06/02/25 10:31
Total/NA	Analysis	SM 2320B		1	455861	T5AC	EET CF	05/27/25 14:16

Client Sample ID: MW-6

Date Collected: 05/21/25 10:49

Date Received: 05/22/25 16:10

Lab Sample ID: 310-307093-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	456802	QTZ5	EET CF	06/04/25 14:39
Total/NA	Prep	3005A			455681	WK2X	EET CF	05/27/25 09:00
Total/NA	Analysis	6020B		1	456147	NFT2	EET CF	05/29/25 14:38
Total/NA	Analysis	350.1		1	455691	ZJX4	EET CF	05/24/25 00:40
Total/NA	Analysis	5220D LL		1	456320	ENB7	EET CF	06/02/25 10:31
Total/NA	Analysis	SM 2320B		1	455861	T5AC	EET CF	05/27/25 14:28

Client Sample ID: MW-7

Date Collected: 05/21/25 11:13

Date Received: 05/22/25 16:10

Lab Sample ID: 310-307093-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	456802	QTZ5	EET CF	06/04/25 14:55
Total/NA	Prep	3005A			455681	WK2X	EET CF	05/27/25 09:00
Total/NA	Analysis	6020B		1	456147	NFT2	EET CF	05/29/25 14:41
Total/NA	Prep	3005A			455681	WK2X	EET CF	05/27/25 09:00
Total/NA	Analysis	6020B		4	456239	ZRI4	EET CF	05/30/25 15:25
Total/NA	Analysis	350.1		1	455691	ZJX4	EET CF	05/24/25 00:40
Total/NA	Analysis	5220D LL		1	456320	ENB7	EET CF	06/02/25 10:31
Total/NA	Analysis	SM 2320B		1	455861	T5AC	EET CF	05/27/25 14:38

Client Sample ID: MW-8

Date Collected: 05/20/25 15:55

Date Received: 05/22/25 16:10

Lab Sample ID: 310-307093-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	456112	QTZ5	EET CF	05/28/25 17:12
Total/NA	Prep	3005A			455681	WK2X	EET CF	05/27/25 09:00
Total/NA	Analysis	6020B		1	456147	NFT2	EET CF	05/29/25 14:43
Total/NA	Analysis	350.1		1	455691	ZJX4	EET CF	05/24/25 00:41
Total/NA	Analysis	5220D LL		1	456320	ENB7	EET CF	06/02/25 10:31
Total/NA	Analysis	SM 2320B		1	455861	T5AC	EET CF	05/27/25 14:53

Eurofins Cedar Falls

Lab Chronicle

Client: SCS Engineers
Project/Site: US Gypsum - Sperry Landfill Sampling 2025

Job ID: 310-307093-1
SDG: US Gypsum-Sperry Landfill

Client Sample ID: MW-9

Lab Sample ID: 310-307093-5

Date Collected: 05/20/25 14:58

Matrix: Water

Date Received: 05/22/25 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	456112	QTZ5	EET CF	05/28/25 17:28
Total/NA	Prep	3005A			455681	WK2X	EET CF	05/27/25 09:00
Total/NA	Analysis	6020B		1	456147	NFT2	EET CF	05/29/25 14:46
Total/NA	Analysis	350.1		1	455691	ZJX4	EET CF	05/24/25 00:42
Total/NA	Analysis	5220D LL		1	456320	ENB7	EET CF	06/02/25 10:31
Total/NA	Analysis	SM 2320B		1	455861	T5AC	EET CF	05/27/25 15:10

Client Sample ID: MW-10

Lab Sample ID: 310-307093-6

Date Collected: 05/20/25 15:13

Matrix: Water

Date Received: 05/22/25 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	456112	QTZ5	EET CF	05/28/25 17:43
Total/NA	Prep	3005A			455681	WK2X	EET CF	05/27/25 09:00
Total/NA	Analysis	6020B		1	456147	NFT2	EET CF	05/29/25 14:55
Total/NA	Analysis	350.1		1	455691	ZJX4	EET CF	05/24/25 00:43
Total/NA	Analysis	5220D LL		1	456320	ENB7	EET CF	06/02/25 10:31
Total/NA	Analysis	SM 2320B		1	455861	T5AC	EET CF	05/27/25 15:21

Client Sample ID: MW-11

Lab Sample ID: 310-307093-7

Date Collected: 05/20/25 14:04

Matrix: Water

Date Received: 05/22/25 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		20	456112	QTZ5	EET CF	05/28/25 17:59
Total/NA	Prep	3005A			455681	WK2X	EET CF	05/27/25 09:00
Total/NA	Analysis	6020B		1	456147	NFT2	EET CF	05/29/25 14:58
Total/NA	Prep	3005A			455681	WK2X	EET CF	05/27/25 09:00
Total/NA	Analysis	6020B		4	456239	ZRI4	EET CF	05/30/25 15:40
Total/NA	Analysis	350.1		1	455691	ZJX4	EET CF	05/24/25 00:45
Total/NA	Analysis	5220D LL		1	456320	ENB7	EET CF	06/02/25 10:31
Total/NA	Analysis	SM 2320B		1	455861	T5AC	EET CF	05/27/25 16:24

Client Sample ID: MW-12

Lab Sample ID: 310-307093-8

Date Collected: 05/20/25 13:31

Matrix: Water

Date Received: 05/22/25 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		20	456112	QTZ5	EET CF	05/28/25 18:15
Total/NA	Prep	3005A			455681	WK2X	EET CF	05/27/25 09:00
Total/NA	Analysis	6020B		1	456147	NFT2	EET CF	05/29/25 15:00
Total/NA	Analysis	350.1		1	455691	ZJX4	EET CF	05/24/25 00:46
Total/NA	Analysis	5220D LL		1	456074	ENB7	EET CF	05/29/25 11:21
Total/NA	Analysis	SM 2320B		1	455861	T5AC	EET CF	05/27/25 16:41

Eurofins Cedar Falls

Lab Chronicle

Client: SCS Engineers
Project/Site: US Gypsum - Sperry Landfill Sampling 2025

Job ID: 310-307093-1
SDG: US Gypsum-Sperry Landfill

Client Sample ID: MW-13

Lab Sample ID: 310-307093-9

Date Collected: 05/20/25 17:10

Matrix: Water

Date Received: 05/22/25 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	456112	QTZ5	EET CF	05/28/25 18:30
Total/NA	Prep	3005A			455681	WK2X	EET CF	05/27/25 09:00
Total/NA	Analysis	6020B		1	456147	NFT2	EET CF	05/29/25 15:02
Total/NA	Analysis	350.1		1	455691	ZJX4	EET CF	05/24/25 00:47
Total/NA	Analysis	5220D LL		1	456074	ENB7	EET CF	05/29/25 11:21
Total/NA	Analysis	SM 2320B		1	455861	T5AC	EET CF	05/27/25 16:51

Client Sample ID: MW-14

Lab Sample ID: 310-307093-10

Date Collected: 05/20/25 16:47

Matrix: Water

Date Received: 05/22/25 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	456802	QTZ5	EET CF	06/04/25 15:10
Total/NA	Prep	3005A			455681	WK2X	EET CF	05/27/25 09:00
Total/NA	Analysis	6020B		1	456147	NFT2	EET CF	05/29/25 15:05
Total/NA	Analysis	350.1		1	455691	ZJX4	EET CF	05/24/25 00:48
Total/NA	Analysis	5220D LL		1	456074	ENB7	EET CF	05/29/25 11:21
Total/NA	Analysis	SM 2320B		1	455861	T5AC	EET CF	05/27/25 17:08

Client Sample ID: MW-15

Lab Sample ID: 310-307093-11

Date Collected: 05/21/25 09:01

Matrix: Water

Date Received: 05/22/25 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		20	456802	QTZ5	EET CF	06/04/25 15:26
Total/NA	Prep	3005A			455681	WK2X	EET CF	05/27/25 09:00
Total/NA	Analysis	6020B		1	456147	NFT2	EET CF	05/29/25 15:07
Total/NA	Prep	3005A			455681	WK2X	EET CF	05/27/25 09:00
Total/NA	Analysis	6020B		4	456239	ZRI4	EET CF	05/30/25 15:43
Total/NA	Analysis	350.1		1	455691	ZJX4	EET CF	05/24/25 00:48
Total/NA	Analysis	5220D LL		1	456074	ENB7	EET CF	05/29/25 11:21
Total/NA	Analysis	SM 2320B		1	455861	T5AC	EET CF	05/27/25 17:18

Client Sample ID: MW-19

Lab Sample ID: 310-307093-12

Date Collected: 05/21/25 10:00

Matrix: Water

Date Received: 05/22/25 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	456802	QTZ5	EET CF	06/04/25 15:41
Total/NA	Prep	3005A			455681	WK2X	EET CF	05/27/25 09:00
Total/NA	Analysis	6020B		1	456147	NFT2	EET CF	05/29/25 15:10
Total/NA	Analysis	350.1		1	455691	ZJX4	EET CF	05/24/25 00:50
Total/NA	Analysis	5220D LL		1	456074	ENB7	EET CF	05/29/25 11:21
Total/NA	Analysis	SM 2320B		1	455861	T5AC	EET CF	05/27/25 17:29

Eurofins Cedar Falls

Lab Chronicle

Client: SCS Engineers
Project/Site: US Gypsum - Sperry Landfill Sampling 2025

Job ID: 310-307093-1
SDG: US Gypsum-Sperry Landfill

Client Sample ID: MW-D

Date Collected: 05/20/25 14:58

Date Received: 05/22/25 16:10

Lab Sample ID: 310-307093-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	456802	QTZ5	EET CF	06/04/25 15:57
Total/NA	Prep	3005A			455681	WK2X	EET CF	05/27/25 09:00
Total/NA	Analysis	6020B		1	456147	NFT2	EET CF	05/29/25 15:12
Total/NA	Analysis	350.1		1	455691	ZJX4	EET CF	05/24/25 00:50
Total/NA	Analysis	5220D LL		1	456074	ENB7	EET CF	05/29/25 11:21
Total/NA	Analysis	SM 2320B		1	455861	T5AC	EET CF	05/27/25 17:39

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: US Gypsum - Sperry Landfill Sampling 2025

Job ID: 310-307093-1
SDG: US Gypsum-Sperry 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

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

Method Summary

Client: SCS Engineers
Project/Site: US Gypsum - Sperry Landfill Sampling 2025

Job ID: 310-307093-1
SDG: US Gypsum-Sperry Landfill

Method	Method Description	Protocol	Laboratory
9056A	Anions, Ion Chromatography	SW846	EET CF
6020B	Metals (ICP/MS)	SW846	EET CF
350.1	Nitrogen, Ammonia	EPA	EET CF
5220D LL	COD	SM	EET CF
SM 2320B	Alkalinity	SM	EET CF
3005A	Preparation, Total Metals	SW846	EET CF

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

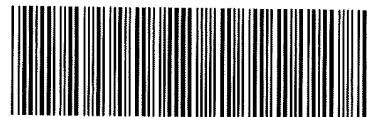
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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



Environment Testing
America



310-307093 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>ES</u>			
City/State:	CITY <u>W. Des Moines</u>	STATE <u>IA</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>5-22-25</u>	TIME <u>1616</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? ↓			
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>PL 250</u>		CONTAINER 2
Uncorrected Temp (°C):	<u>2.6</u>		
Corrected Temp (°C):	<u>2.6</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			
<u>Didn't receive 2nd page samples</u>			



Environment Testing
America

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client <u>SCS</u>			
City/State:	CITY <u>W. Des Moines</u>	STATE <u>IA</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>5.22.25</u>	TIME <u>1610</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? ↓
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>PL 250</u>		CONTAINER 2
Uncorrected Temp (°C):	<u>3.4</u>		
Corrected Temp (°C):	<u>3.6</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			

Chain of Custody Record

TestAmerica Des Moines SC
214

Eurofins TestAmerica, Cedar Falls
3019 Venture Way

Cedar Falls, IA 50613-6907
phone 319.277.2401 fax 319.277.2425

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

Groundwater

☒ Other

☐ RCRA

☐ NPDES

☐ DW

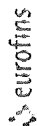
Regulatory Program:

Project Manager:		Site Contact:		Date:		COC No	
Email:		Lab Contact:		Carrier:		1 of 2 COCs	
Cell:						Sampler	
Analysis Turnaround Time						For Lab Use Only:	
☐ CALENDAR DAYS ☐ WORKING DAYS						Walk-in Client	
Other:						Lab Sampling	
☐ 2 weeks						Job / SDG No.	
☐ 1 week							
☐ 2 days							
☐ 1 day							
Sample Date		Sample Time	Sample Type (G-Grab, G-Grab)	Matrix	# of Cont.	Sample Specific Notes.	
MW-5	5-21-25	1144	G	H ₂ O			
MW-6	5-21-25	1049	G	H ₂ O			
MW-7	5-21-25	1113	G	H ₂ O			
MW-8	5-26-25	1553	G	H ₂ O			
MW-9	5-26-25	1458	G	H ₂ O			
MW-10	5-20-25	1513	G	H ₂ O			
MW-11	5-20-25	1404	G	H ₂ O			
MW-12	5-20-25	1331	G	H ₂ O			
MW-13	5-20-25	1710	G	H ₂ O			
MW-14	5-26-25	1647	G	H ₂ O			
MW-15	5-21-25	0901	G	H ₂ O			
MW-16	5-21-25		G				
MW-19	5-21-25	1000	G	H ₂ O			
MW-D	5-26-25	1458	G	H ₂ O			
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 ☐ Biohazard ☐ Poison B ☐ Unknown							
Special Instructions/QC Requirements & Comments:							
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No:		Cooler Temp (°C) Obs'd:		Therm ID No	
Relinquished by <i>Kevin Jensen</i>		Company <i>SCS</i>		Received by		Company	
Relinquished by		Company		Received by		Company	
Relinquished by		Company		Received in Laboratory by <i>SCS</i>		Company	
				Date/Time: <i>5/22/25/1400</i>		Date/Time	
				Date/Time:		Date/Time	
				Date/Time:		Date/Time: <i>5/22/25</i>	

Chain of Custody Record

Eurofins TestAmerica, Cedar Falls
3019 Venture Way

Cedar Falls, IA 50613-6907
phone 319.277.2401 fax 319.277.2425



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

Groundwater

☒ Other

☐ RCRA

☐ NPDES

☐ DW

Regulatory Program:

Project Manager: Email: Cell Analysis Turnaround Time ☐ CALENDAR DAYS ☐ WORKING DAYS Other: 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Site Contact: Lab Contact:		Date:		COC No 2 of 2 COCs	
Client Contact Kevin Jensen - SCS Engineers 1690 All-State Court, Suite 100 West Des Moines, Iowa 50265 515-631-6154 Jensen@scs-engineers.com Project Name: US Gypsum-Sperry Landfill Sampling 2025 Site US Gypsum-Sperry Landfill P O #		Sample Date		Sample Type (G=Ground, G=Grab)		Matrix	
Sample Identification		Sample Time		# of Cont.		Filtered Sample (Y/N)	
LW-2B		G		G		Perform MS / MSD (Y/N)	
LW-3B		G		G		Bicarbonate	
LW-5B		G		G		Chloride	
						Total Calcium	
						Total Magnesium	
						Total Potassium	
						Total Sodium	
						Sulfate	
						Sample Specific Notes.	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other							
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.							
Special Instructions/QC Requirements & Comments:							
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No		Cooler Temp. (°C) Obs'd:		Cor'd:	
Relinquished by: <i>Vincent Ball</i>		Company: SCS		Received by:		Company:	
Relinquished by:		Company:		Received by:		Company:	
Relinquished by:		Company:		Received in Laboratory by: <i>[Signature]</i>		Company:	
				Date/Time: 5-22-25/1400		Date/Time:	
				Date/Time:		Date/Time:	
				Date/Time:		Date/Time:	

Form No. CA-C-WI-002, Rev. 4.23, dated 10/16/2019

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-307093-1
SDG Number: US Gypsum-Sperry Landfill

Login Number: 307093

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 B-2

Data Validation

Completed by: Semir Omerovic

Lab Report Date: 6/6/2025

Site Name: US Gypsum - Sperry Landfill Sampling 2025

Lab Report Number: 310-307093-1

OK NO N/A NOTES

Sample Collection and Sample Handling

Chain of Custody	X		
Temperature	X		
Preservation	X		
Condition	X		
Reporting Limits		X	Method 9056A_ORGFM_28D: The following samples were diluted due to the nature of the sample matrix: MW-6 (310-307093-2), MW-13 (310-307093-9). Elevated reporting limits (RLs) were provided.
Case Narrative	X		
Holding Times	X		

Analytical Sensitivity and Blanks

Method Blank Detections	X		
Trip Blank Detections			X

Accuracy

ICV/CCV	X		
LCS/LCSD	X		
MS/MSD		X	MS/MSD results indicate ammonia was above recovery limits in analysis batch 455691.
Surrogates (organics only)	X		

Precision

QA/QC Sample RPDs	X		
Field Duplicates	X		The duplicate sample was collected from MW-9 during the 2025 sampling event. All parameters had <50% relative difference. Constituents with J flag concentrations were not considered for the duplicate sample comparisons.



Appendix C

Summary of Groundwater Chemistry

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Summary of Groundwater Chemistry U.S. Gypsum Sperry Landfill 29 SDP 04 89C

	Sample Date	MW-13 UPG	MW-15 UPG	MW-16 UPG	MW-19 UPG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-14 DNG
Total Metals Constituents														
Arsenic, mg/L (CAS NO - 7440-38-2) NRL - 0.00002 mg/L MCL - 0.01 mg/L	10/24/2017	< 0.002	< 0.002	< 0.002	0.000542	0.00105	0.000791	0.00662	< 0.002	< 0.002	< 0.002	0.0242	< 0.002	0.000521
	4/9/2018	< 0.002	< 0.002	< 0.002	0.00101	0.00212	0.004	0.0135	< 0.002	< 0.002	< 0.002	0.0462	< 0.002	< 0.002
	8/21/2018	< 0.002	< 0.002	0.00239	0.000731	0.00212	0.000936	0.0228	< 0.002	< 0.002	< 0.002	0.0223	0.00106	0.0066
	3/6/2019	< 0.002	< 0.002	N/A	0.00079	N/A	N/A	0.00611	< 0.002	< 0.002	< 0.002	N/A	< 0.002	< 0.002
	4/8/2019	N/A	N/A	< 0.002	N/A	0.00173*	0.000848*	N/A	N/A	N/A	N/A	0.0296	N/A	N/A
	9/4/2019	< 0.002	< 0.002	< 0.002	< 0.002	0.00144*	0.000949*	0.0171	< 0.002	< 0.002	< 0.002	0.0118	< 0.002	< 0.002
	9/4/2019	N/A	N/A	N/A	N/A	N/A	N/A	0.00636	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	0.025	N/A	N/A	N/A	N/A	N/A	N/A
	6/9/2021	N/A	N/A	N/A	N/A	N/A	0.00129*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/12/2022	N/A	N/A	N/A	N/A	N/A	N/A	0.00798	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A
	8/27/2024	N/A	N/A	N/A	N/A	N/A	N/A	0.016	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2025	N/A	N/A	N/A	N/A	N/A	N/A	0.019	N/A	N/A	N/A	N/A	N/A	N/A
Boron, mg/L (CAS NO - 7440-42-8) HAL - 6 mg/L	10/24/2017	< 0.2	0.521	< 0.2	< 0.2	0.107	0.289	1.85	< 0.2	< 0.2	< 0.2	1.61	< 0.2	< 0.2
	4/9/2018	< 0.2	0.364	< 0.2	< 0.2	0.11	0.295	1.4	< 0.2	< 0.2	< 0.2	1.28	< 0.2	< 0.2
	8/21/2018	< 0.2	0.355	< 0.2	< 0.2	0.123	0.29	1.91	< 0.2	< 0.2	< 0.2	1.35	< 0.2	< 0.2
	3/6/2019	< 0.2	0.383	N/A	< 0.2	N/A	N/A	2.3	0.139	< 0.2	< 0.2	N/A	< 0.2	< 0.2
	4/8/2019	N/A	N/A	< 0.2	N/A	0.131*	0.337	N/A	N/A	N/A	N/A	1.35	N/A	N/A
	9/4/2019	< 0.2	0.336	< 0.2	< 0.2	0.137*	0.314	1.9	0.115*	< 0.2	< 0.2	1.39	< 0.2	< 0.2
	9/4/2019	N/A	N/A	N/A	N/A	N/A	N/A	1.27	N/A	N/A	N/A	N/A	N/A	N/A
	9/4/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0001	N/A	N/A	N/A	N/A	N/A	N/A
Cadmium, mg/L (CAS NO - 7440-43-9) MCL - 0.005 mg/L	10/24/2017	< 0.0005	0.000049	0.000102	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.000046
	4/9/2018	< 0.0005	< 0.0005	0.000108	0.000085	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	8/21/2018	< 0.0005	< 0.0005	0.000225	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.000396	< 0.0005	< 0.0005	0.000088	0.000339
	3/6/2019	< 0.0005	< 0.0005	N/A	0.000115	N/A	N/A	< 0.0005	< 0.0005	< 0.0005	< 0.0005	N/A	< 0.0005	< 0.0005
	4/8/2019	N/A	N/A	< 0.0005	N/A	< 0.0005	< 0.0005	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A
	9/4/2019	< 0.0001	< 0.0001	< 0.0001	0.000045*	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
	9/4/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0001	N/A	N/A	N/A	N/A	N/A	N/A
	9/4/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A
Chromium, mg/L (CAS NO - 7440-47-3) MCL - 0.1 mg/L	10/24/2017	< 0.005	< 0.005	0.00257	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.000783	0.00122
	4/9/2018	< 0.005	< 0.005	0.0026	0.00285	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00084
	8/21/2018	< 0.005	< 0.005	0.00891	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00249	0.015
	3/6/2019	< 0.005	< 0.005	N/A	0.00126	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	0.00108
	4/8/2019	N/A	N/A	0.00141*	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A
	9/4/2019	< 0.005	< 0.005	0.00104*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0192	< 0.005	0.00876	0.00137*	< 0.005
	9/4/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A
	9/4/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A
Cobalt, mg/L (CAS NO - 7440-48-4) MCL - 0.0021 mg/L	10/24/2017	0.00036	0.000072	0.000062	0.000465	< 0.0005	0.000091	0.000525	0.000153	0.000131	0.000784	0.00214	0.00021	0.000945
	4/9/2018	0.000104	< 0.0005	< 0.0005	0.00122	< 0.0005	0.000093	0.000506	< 0.0005	< 0.0005	0.000591	0.00177	< 0.0005	< 0.0005
	8/21/2018	0.000208	0.000077	0.00334	0.000332	< 0.0005	0.00008	0.000524	0.000183	0.000096	0.00218	0.00172	0.00131	0.00818
	3/6/2019	0.000136	< 0.0005	N/A	0.000753	N/A	N/A	0.000526	0.000158	< 0.0005	0.000449	N/A	< 0.0005	0.0002
	4/8/2019	N/A	N/A	< 0.0005	N/A	< 0.0005	< 0.0005	N/A	N/A	N/A	N/A	0.00183	N/A	N/A
	9/4/2019	< 0.0005	< 0.0005	< 0.0005	0.000332*	< 0.0005	< 0.0005	0.000499*	0.000195*	< 0.0005	0.000808	0.00179	< 0.0005	< 0.0005
	9/4/2019	N/A	N/A	N/A	N/A	N/A	N/A	0.000391*	N/A	N/A	N/A	N/A	N/A	N/A
	9/4/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

U.S. Gypsum Sperry Landfill 29 SDP 04 89C

	Sample Date	MW-13 UPG	MW-15 UPG	MW-16 UPG	MW-19 UPG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-14 DNG
Total Metals Constituents														
Copper, mg/L (CAS NO - 7440-50-8)	10/24/2017	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
SDWR - 1.0 mg/L	4/9/2018	< 0.005	< 0.005	< 0.005	0.00192	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
MCL - 1.3 mg/L	8/21/2018	< 0.005	< 0.005	0.00904	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00318	0.0137
	3/6/2019	< 0.005	< 0.005	N/A	< 0.005	N/A	N/A	< 0.005	< 0.005	0.0165	< 0.005	N/A	< 0.005	< 0.005
	4/8/2019	N/A	N/A	< 0.005	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A
	9/4/2019	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	9/4/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A
Iron, mg/L (CAS NO - 7439-89-6)	10/24/2017	0.288	< 0.1	< 0.1	0.968	2.15	0.874	6.47	< 0.1	< 0.1	< 0.1	16.6	0.126	0.546
SDWR - 0.3 mg/L	4/9/2018	0.135	< 0.1	< 0.1	2.21	3.2	8.62	8.16	< 0.1	< 0.1	< 0.1	13.5	< 0.1	0.101
	8/21/2018	0.291	< 0.1	5.32	0.556	2.78	0.725	9.23	< 0.1	0.0754	< 0.1	13.1	1.71	17.3
	3/6/2019	0.11	< 0.1	N/A	1.42	N/A	N/A	6.95	< 0.1	< 0.1	< 0.1	N/A	< 0.1	0.196
	4/8/2019	N/A	N/A	< 0.1	N/A	2.32	0.832	N/A	N/A	N/A	N/A	12.5	N/A	N/A
	9/4/2019	< 0.1	< 0.1	< 0.1	0.323	2.13	0.763	8.09	< 0.1	0.163	< 0.1	10.7	< 0.1	< 0.1
	9/4/2019	N/A	N/A	N/A	N/A	N/A	N/A	4.79	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2020	< 0.1	< 0.1	< 0.1	0.264	2.15	3.82	11.5	< 0.1	< 0.1	< 0.1	20.2	< 0.1	0.0532*
	5/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A
	6/9/2021	< 0.5	< 0.5	< 0.5	0.315*	1.96	1.18	5.94	< 0.5	< 0.5	< 0.5	12.5	< 0.5	< 0.5
	6/9/2021	N/A	N/A	N/A	N/A	1.97	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/12/2022	< 0.1	0.0493*	0.0878*	0.598	1.9	1.24	6.97	< 0.1	< 0.1	< 0.1	30.5	< 0.1	< 0.1
	7/12/2022	N/A	N/A	N/A	N/A	2.03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2023	< 0.1	< 0.1	0.517	0.0705*	2.36	2.06	< 0.1	7.46	0.0423*	< 0.1	10.4	0.0794*	0.339
	8/16/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A
	8/27/2024	0.106	< 0.1	0.0813*	0.572	8.6	1.65	9.16	< 0.1	0.0439*	< 0.1	10.8	0.0545*	< 0.1
	8/27/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.72	N/A	N/A	N/A	N/A
	5/20/2025	< 0.1	< 0.1	N/A	1.11	1.95	4.01	10.9	< 0.1	< 0.1	< 0.1	10.4	0.137	< 0.1
	5/20/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.13	N/A	N/A	N/A	N/A
Lead, mg/L (CAS NO - 7439-92-1)	10/24/2017	0.000399	< 0.0005	< 0.0005	0.000425	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.00107	0.000763	0.00138
MCL - 0.015 mg/L	4/9/2018	< 0.0005	< 0.0005	< 0.0005	0.00108	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.000722	< 0.0005	< 0.0005
	8/21/2018	0.00196	< 0.0005	0.00372	0.000931	< 0.0005	< 0.0005	0.000278	< 0.0005	0.165	< 0.0005	0.000353	0.00324	0.00934
	3/6/2019	0.0009	0.000568	N/A	0.000934	N/A	N/A	< 0.0005	< 0.0005	0.000654	< 0.0005	N/A	0.00027	0.000438
	4/8/2019	N/A	N/A	< 0.0005	N/A	< 0.0005	< 0.0005	N/A	N/A	N/A	N/A	0.000385*	N/A	N/A
	9/4/2019	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	9/4/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A
Manganese, mg/L (CAS NO - 7439-96-5)	10/24/2017	0.207	0.0203	0.0039	0.433	0.342	0.0209	0.95	0.242	0.233	2.29	0.949	0.03	0.0716
HAL - 0.3 mg/L	4/9/2018	0.162	0.015	0.00174	0.455	0.439	0.0196	0.761	0.131	0.193	2.2	0.951	0.00262	0.00338
MCL - 0.3 mg/L	8/21/2018	0.181	0.0366	0.196	0.396	0.384	0.0154	0.798	0.208	0.208	1.87	0.769	0.17	0.516
SDWR - 0.05 mg/L	3/6/2019	0.173	0.0169	N/A	0.505	N/A	N/A	1.03	0.302	0.233	2.41	N/A	0.00667	0.0173
	4/8/2019	N/A	N/A	< 0.01	N/A	0.425	0.0153	N/A	N/A	N/A	N/A	0.944	N/A	N/A
	9/4/2019	0.137	0.0274	< 0.01	0.353	0.41	0.0152	0.803	0.22	0.196	2.24	0.89	< 0.01	0.00417*
	9/4/2019	N/A	N/A	N/A	N/A	N/A	N/A	0.703	N/A	N/A	N/A	N/A	N/A	N/A
Mercury, mg/L (CAS NO - 7439-97-6)	10/24/2017	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
HAL - 0.002 mg/L	4/9/2018	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
MCL - 0.002 mg/L	8/21/2018	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
	3/6/2019	< 0.0002	< 0.0002	N/A	< 0.0002	N/A	N/A	< 0.0002	< 0.0002	< 0.0002	< 0.0002	N/A	< 0.0002	< 0.0002
	9/4/2019	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
	9/4/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

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	Sample Date	MW-13 UPG	MW-15 UPG	MW-16 UPG	MW-19 UPG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-14 DNG
Total Metals Constituents														
Molybdenum, mg/L (CAS NO - 7439-98-7) HAL - 0.04 mg/L	10/24/2017	< 0.002	0.00033	0.000823	0.000363	0.000689	0.00178	0.00074	< 0.002	< 0.002	0.000852	0.000382	< 0.002	< 0.002
	4/9/2018	< 0.002	< 0.002	0.00119	0.00098	0.00107	0.0021	0.00111	< 0.002	< 0.002	< 0.002	0.00108	< 0.002	< 0.002
	8/21/2018	< 0.002	< 0.002	0.000991	< 0.002	< 0.002	0.00142	< 0.002	< 0.002	< 0.002	< 0.002	0.000789	< 0.002	0.000973
	3/6/2019	< 0.002	< 0.002	N/A	< 0.002	N/A	N/A	< 0.002	< 0.002	< 0.002	< 0.002	N/A	< 0.002	< 0.002
	4/8/2019	N/A	N/A	< 0.002	N/A	< 0.002	0.00151*	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A
	9/4/2019	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.00157*	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	9/4/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A
	9/4/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A
Nickel, mg/L (CAS NO - 7440-02-0) MCL - 0.1 mg/L	10/24/2017	< 0.005	0.00199	< 0.005	< 0.005	< 0.005	< 0.005	0.00148	< 0.005	< 0.005	0.00201	0.00502	< 0.005	0.00159
	4/9/2018	< 0.005	0.00222	< 0.005	0.00315	< 0.005	< 0.005	0.00136	< 0.005	< 0.005	0.00154	0.00413	< 0.005	< 0.005
	8/21/2018	< 0.005	0.00123	0.00672	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0032	0.0024	0.0185
	3/6/2019	< 0.005	0.00187	N/A	< 0.005	N/A	N/A	< 0.005	< 0.005	< 0.005	0.00191	N/A	< 0.005	< 0.005
	4/8/2019	N/A	N/A	< 0.005	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A	0.00381*	N/A	N/A
	9/4/2019	< 0.005	0.0025*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00197*	0.00425*	< 0.005	< 0.005
	9/4/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A
	9/4/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A
Selenium, mg/L (CAS NO - 7782-49-2) MCL - 0.05 mg/L	10/24/2017	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00133
	4/9/2018	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00112
	8/21/2018	< 0.005	< 0.005	0.00115	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00094	< 0.005	< 0.005	0.00233
	3/6/2019	< 0.005	< 0.005	N/A	< 0.005	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	0.00134
	4/8/2019	N/A	N/A	< 0.005	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A
	9/4/2019	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	9/4/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A
	9/4/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A
Zinc, mg/L (CAS NO - 7440-66-6) MCL - 2.0 mg/L SDWR - 5 mg/L	10/24/2017	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.0302	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	4/9/2018	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	8/21/2018	< 0.02	< 0.02	0.0209	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.0138	0.0441
	3/6/2019	< 0.02	< 0.02	N/A	< 0.02	N/A	N/A	< 0.02	< 0.02	0.0112	< 0.02	N/A	< 0.02	< 0.02
	4/8/2019	N/A	N/A	< 0.02	N/A	< 0.02	< 0.02	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A
	9/4/2019	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	9/4/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A
	9/4/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	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.

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Other Constituents	Sample Date	MW-13 UPG	MW-15 UPG	MW-16 UPG	MW-19 UPG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-14 DNG
Chemical Oxygen Demand, mg/L (CAS NO - COD)	4/1/1995	< 5	9.8	< 5	< 5	< 5	< 5	24	< 5	< 5	< 5	33	< 5	< 5
	7/1/1995	< 5	< 5	< 5	< 5	< 5	< 5	35	< 5	< 5	5.8	34	< 5	< 5
	10/1/1995	< 5	< 5	13	< 5	< 5	< 5	34	< 5	< 5	6.1	33	< 5	< 5
	1/1/1996	< 5	< 5	< 5	< 5	< 5	< 5	30	< 5	< 5	< 5	23	< 5	< 5
	4/1/1996	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	31	< 10	< 10
	10/1/1996	< 10	< 10	< 10	< 10	< 10	< 10	13	< 10	< 10	< 10	32	< 10	< 10
	4/1/1997	< 10	< 10	< 10	< 10	< 10	< 10	40	< 10	< 10	< 10	40	< 10	< 10
	10/1/1997	< 10	< 10	< 10	< 10	< 10	< 10	23	< 10	< 10	< 10	27	< 10	< 10
	4/1/1998	< 10	< 10	< 10	< 10	< 10	< 10	24	< 10	< 10	< 10	33	< 10	< 10
	10/1/1998	< 10	< 10	< 10	< 10	< 10	< 10	14	< 10	< 10	< 10	22	< 10	< 10
	4/1/1999	< 10	< 10	< 10	< 10	< 10	< 10	33	< 10	< 10	< 10	37	< 10	< 10
	10/1/1999	< 10	< 10	< 10	< 10	< 10	< 10	19	< 10	< 10	< 10	35	< 10	< 10
	4/1/2000	< 10	< 10	< 10	< 10	< 10	< 10	27	< 10	< 10	< 10	26	< 10	< 10
	10/1/2000	< 10	< 10	< 10	< 10	< 10	< 10	26	< 10	< 10	< 10	30	< 10	< 10
	4/1/2001	< 10	< 10	< 10	< 10	< 10	< 10	35	< 10	< 10	< 10	26	< 10	< 10
	10/1/2001	< 10	< 10	< 10	< 10	< 10	< 10	40	< 10	< 10	< 10	38	< 10	< 10
	4/1/2002	< 10	< 10	< 10	< 10	< 10	< 10	36	< 10	< 10	< 10	32	< 10	< 10
	10/1/2002	< 10	< 10	< 10	< 10	12	11	57	< 10	< 10	< 10	41	12	< 10
	4/23/2003	< 5	< 5	< 5	< 5	< 5	< 5	41	< 5	< 5	< 5	30	< 5	< 5
	10/14/2003	< 5	< 5	< 5	< 5	< 5	< 5	36	< 5	< 5	< 5	31	< 5	< 5
	4/7/2004	< 5	< 5	< 5	< 5	< 5	< 5	41	< 5	< 5	< 5	24	< 5	< 5
	10/13/2004	< 5	< 5	< 5	< 5	< 5	< 5	9.3	< 5	< 5	< 5	26	< 5	< 5
	4/7/2005	< 5	< 5	< 5	< 5	< 5	< 5	32	< 5	< 5	5.1	25	< 5	< 5
	10/7/2005	< 5	< 5	< 5	< 5	< 5	< 5	10	< 5	< 5	< 5	25	< 5	< 5
	4/4/2006	< 5	< 5	< 5	< 5	< 5	< 5	33.3	< 5	< 5	< 5	23.9	< 5	< 5
	10/13/2006	< 5	< 5	< 5	< 5	< 5	< 5	36.6	< 5	< 5	< 5	26.2	< 5	< 5
	4/4/2007	5.7	8.3	< 5	< 5	< 5	< 5	7.2	< 5	< 5	13.4	24.1	< 5	< 5
	10/9/2007	9	10.8	< 5	< 5	6.5	6.3	25.4	< 5	5.7	14.5	30.6	10.1	7.2
	4/17/2008	< 5	8.4	6.6	8.7	7.1	5	14.2	< 5	< 5	9.3	27.1	5.2	7.4
	10/10/2008	< 5	< 5	< 5	7.8	< 5	< 5	24.1	< 5	< 5	6.2	24.1	6.2	< 5
	4/28/2009	< 5	< 5	< 5	< 5	6.1	< 5	16.5	< 5	< 5	< 5	14	< 5	< 5
	10/14/2009	< 5	< 5	< 5	< 5	< 5	< 5	27.4	< 5	< 5	8.1	20.1	< 5	< 5
	10/28/2010	< 25	< 5	< 5	27.3	10.4	< 5	< 5	7.8	8.5	< 5	26.3	< 5	< 5
	4/13/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	17.1	< 5	< 5
	10/13/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	14.8	< 5	< 5
	4/24/2012	< 10	13	< 10	256	26	< 10	52	< 10	< 10	17	118	17	13
	10/23/2012	< 5	< 5	< 5	< 5	7.7	< 5	< 5	8.7	7.4	15.3	25.4	< 5	< 5
	4/11/2013	< 5	< 5	< 5	< 5	< 5	< 5	8.8	< 5	< 5	< 5	15.1	< 5	< 5
	10/29/2013	< 5	< 5	< 5	< 5	8.6	< 5	34.1	< 5	< 5	< 5	< 5	< 5	< 5
	4/8/2014	< 5	12.8	< 5	< 5	< 5	< 5	30.1	< 5	< 5	< 5	15.8	< 5	< 5
	10/13/2014	< 5	< 5	< 5	20.7	< 5	< 5	32.2	< 5	< 5	< 5	18.8	< 5	< 5
	4/1/2015	< 5	< 5	< 5	< 5	< 5	< 5	28	< 5	< 5	< 5	18.4	< 5	< 5
	10/12/2015	< 5	< 5	< 5	< 5	< 5	< 5	28.7	< 5	< 5	4.45	14.2	< 5	< 5
	4/19/2016	3.06	< 5	3.06	< 5	3.06	4.6	36.4	< 5	< 5	6.51	17.2	< 5	< 5
	10/17/2016	3.94	6.76	3.24	5.71	5.35	< 5	27.6	< 5	5.71	10.3	16.3	7.12	3.24
	4/4/2017	< 5	< 5	< 5	< 5	6.33	6.65	17.7	< 5	< 5	6	18.3	< 5	< 5
	10/24/2017	< 5	7.73	< 5	7.1	< 5	5.22	18.7	< 5	< 5	< 5	15.6	12.1	< 5
	4/9/2018	< 5	7.56	< 5	6.28	7.56	5.63	19.1	< 5	< 5	7.24	17.8	< 5	< 5
	8/21/2018	5.11	< 5	< 5	8.99	7.37	< 5	21.3	5.76	< 5	9.31	27.1	7.05	< 5
	3/6/2019	< 5	< 5	N/A	< 5	N/A	N/A	15.9	< 5	< 5	4.8	N/A	< 5	< 5
	4/8/2019	N/A	N/A	< 10	N/A	8.09	< 5	N/A	N/A	N/A	N/A	21	N/A	N/A

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Summary of Groundwater Chemistry

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Other Constituents	Sample Date	MW-13 UPG	MW-15 UPG	MW-16 UPG	MW-19 UPG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-14 DNG
Chemical Oxygen Demand, mg/L (CAS NO - COD)	9/4/2019	< 5	10.1	< 5	< 5	< 5	< 5	18.4	< 5	< 5	< 5	14.9	< 5	< 5
	9/4/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2020	< 5	8.67	< 5	< 5	< 5	< 5	17.4	< 5	< 5	< 5	15.2	7.7	< 5
	5/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	6/9/2021	5.74	< 5	7.78	8.12	10.2	< 5	26.1	< 5	< 5	9.48	22.4	8.46	< 5
	6/9/2021	N/A	N/A	N/A	N/A	9.82	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/12/2022	< 5	8.4	6.5	6.5	8.4	6.82	24.8	7.13	9.03	12.8	18.5	6.18	6.5
	7/12/2022	N/A	N/A	N/A	N/A	11.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2023	< 5	9.12	< 5	5.06	7.09	5.4	20.6	< 5	< 5	9.8	17.3	8.11	< 5
	8/16/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	8/27/2024	6.12	8.2	5.79	10.8	11.8	9.76	29.3	< 5	< 5	12.1	23.3	6.89	8.1
	8/27/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.77	N/A	N/A	N/A	N/A
	5/20/2025	< 5	6.94	N/A	< 5	< 5	< 5	12	< 5	< 5	< 5	11	36.7	< 5
	5/20/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
Chloride, mg/L (CAS NO - 16887-00-6) SDWR - 250 mg/L	4/1/1995	< 5	14	< 5	< 5	< 5	< 5	< 5	< 5	< 5	44	< 5	17	6.6
	7/1/1995	< 5	13	< 5	< 5	< 5	< 5	34	< 5	< 5	35	42	18	6.4
	10/1/1995	< 5	26	< 5	< 5	< 5	< 5	36	< 5	< 5	36	46	16	6.8
	1/1/1996	< 5	17	< 5	< 5	< 5	< 5	31	< 5	< 5	44	38	17	6.7
	4/1/1996	2.8	15	5.6	3.1	5.2	3.1	N/A	2.8	3	39	39	15	7.2
	10/1/1996	1.2	20.6	4.4	1.4	4.9	1.5	19.1	1.3	2	2.6	38.4	15.6	6.7
	4/1/1997	< 10	19	< 10	< 10	< 10	< 10	16	< 10	< 10	38	44	17	< 10
	10/1/1997	< 10	30	< 10	< 10	< 10	< 10	37	< 10	< 10	31	42	17	< 10
	4/1/1998	< 10	28	< 10	< 10	< 10	< 10	17	< 10	< 10	38	42	20	N/A
	10/1/1998	< 10	31	< 10	< 10	< 10	< 10	33	< 10	< 10	33	44	17	< 10
	4/1/1999	< 10	21	11	< 10	< 10	< 10	38	< 10	< 10	37	41	19	10
	10/1/1999	< 10	26	< 10	< 10	< 10	< 10	29	< 10	< 10	32	38	15	11
	4/1/2000	< 10	24	28	< 10	< 10	< 10	32	< 10	< 10	37	35	18	14
	10/1/2000	< 10	30	< 10	< 10	< 10	< 10	39	28	< 10	33	37	17	11
	4/1/2001	< 10	29	< 10	< 10	< 10	< 10	43	< 10	< 10	38	34	20	10
	10/1/2001	< 10	26	< 10	< 10	< 10	< 10	42	< 10	< 10	34	34	17	11
	4/1/2002	< 10	26	11	< 10	< 10	< 10	52	< 10	< 10	40	36	19	15
	10/1/2002	< 10	22	10	< 10	< 10	< 10	51	< 10	< 10	36	37	18	13
	4/23/2003	< 5	29.1	9.3	< 5	10	< 5	49.4	< 5	< 5	58.4	38.9	18.1	13.2
	10/14/2003	< 5	29.7	9.7	< 5	10.1	< 5	47.5	< 5	< 5	45.6	36.9	24.5	15.2
	4/7/2004	< 5	26.8	9.8	< 5	11.9	< 5	51.7	< 5	< 5	56.5	40.2	33.8	18
	10/13/2004	< 5	27.1	9.2	< 5	10.9	< 5	15.7	< 5	< 5	55.7	37.8	32.3	18
	4/7/2005	< 5	27.7	10.3	< 5	9.9	< 5	49.6	< 5	< 5	62.4	35.8	31.2	19.9
	10/7/2005	< 5	29	9.1	< 5	11.3	< 5	14.5	< 5	< 5	54.2	34.6	27	10.5
	4/4/2006	< 5	23.8	9.33	< 5	11.5	< 5	50.4	< 5	< 5	65.6	33.8	17.5	17.6
	10/13/2006	< 5	27	9.61	< 5	12.1	< 5	9.71	< 5	< 5	61.3	36.3	33.8	21.2
	4/4/2007	< 5	25.4	9.01	< 5	11.8	< 5	21	< 5	< 5	65	35.1	23.2	21.5
	10/9/2007	< 5	24.4	8.88	< 5	11.5	< 5	24.4	< 5	< 5	52.1	33.8	40.2	24.8
	4/17/2008	< 5	20.8	8.88	< 5	8.04	< 5	5.51	< 5	< 5	48.3	31.8	41.3	22.6
	10/10/2008	< 5	23.5	8.61	< 5	11.2	< 5	22	< 5	< 5	61	35.2	39.5	27
	4/28/2009	< 5	19	10.5	7.73	11.4	< 5	27.3	< 5	< 5	52	34.4	30.1	29.5
	10/14/2009	< 5	19.3	11.2	< 5	13.1	< 5	25.9	< 5	< 5	61	34.9	29.6	33.3
	10/28/2010	< 5	15.4	10.7	< 5	12.7	< 5	10.7	< 5	< 5	47.8	34.6	21.1	40.7
	4/13/2011	< 5	13.9	12.1	< 5	13.9	< 5	8.17	< 5	< 5	57.2	35.8	24	41.5
	10/13/2011	< 5	17.8	12.4	< 5	13.7	< 5	< 5	< 5	< 5	52.5	31.1	22.1	40.4
	4/24/2012	< 10	12	12	< 10	14	< 10	27	< 10	< 10	72	32	25	39
	10/23/2012	< 5	17	10.4	< 5	12.6	< 5	30.2	< 5	< 5	52.8	31.5	22.1	40.2

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Other Constituents	Sample Date	MW-13 UPG	MW-15 UPG	MW-16 UPG	MW-19 UPG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-14 DNG
Chloride, mg/L (CAS NO - 16887-00-6) SDWR - 250 mg/L	4/11/2013	< 5	16.3	10.4	< 5	11.1	< 5	21.1	< 5	< 5	56	32.4	20.8	42.3
	10/29/2013	2.09	16.3	11.4	3.27	12.9	2.3	39.5	2.38	2.41	44	33.4	23.8	45.5
	4/8/2014	< 5	16.4	11.6	< 5	14	< 5	42.2	< 5	< 5	41.1	34.2	30.2	42.8
	10/13/2014	< 5	15	10.5	< 5	12.6	< 5	34.8	< 5	< 5	51.8	31.5	32.5	40
	4/1/2015	< 5	10	10.2	2.58	13.2	< 5	25.1	< 5	< 5	58.8	32.6	30	43
	10/12/2015	< 5	12.3	9.17	2.77	11.8	< 5	24.1	< 5	< 5	43.2	30.9	29.6	46.3
	4/19/2016	2.8	9.63	10.9	3.8	13.8	2.84	26.4	3.14	3.23	55.3	31.3	28.3	47.6
	10/17/2016	4.39	12.7	10.4	3.6	13.1	4.47	26.2	4.76	4.98	47.6	28.9	25.9	45.1
	4/4/2017	< 5	11	11.1	4.58	14.6	< 5	33.8	< 5	< 5	56.7	32.5	26.7	51.7
	10/24/2017	< 5	14.2	10.6	2.78	14.7	< 5	39.2	< 5	1.93	44.9	32.7	28.7	49.9
	4/9/2018	1.71	10.8	11.5	3.19	14.6	< 5	34.6	2.04	2.08	49.9	32.1	29	47.9
	8/21/2018	1.82	11.7	10	< 5	15.2	< 5	38.6	< 5	< 5	39.5	142	117	49
	3/6/2019	< 5	10.2	N/A	2.33	N/A	N/A	37.9	1.84	2.24	44.5	N/A	30.7	49.4
	4/8/2019	N/A	N/A	10.3	N/A	14	< 5	N/A	N/A	N/A	N/A	30.1	N/A	N/A
	9/4/2019	< 5	9.76	9.38	1.48*	12.8	< 5	33.9	< 5	< 5	35.8	29	27.5	47.5
	9/4/2019	N/A	N/A	N/A	N/A	N/A	N/A	33.9	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2020	3.14*	10.8	11.3	3.01*	13.9	2.1*	39.4	2.2*	3.14*	44.7	33	25.8	50.4
	5/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.71*	N/A	N/A	N/A	N/A	N/A
	6/9/2021	< 5	7.97	9.7	2.25*	12.9	< 5	33.2	< 5	< 5	41	30.2	19.4	47.7
	6/9/2021	N/A	N/A	N/A	N/A	12.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/12/2022	< 5	8.39	9.19	2.96*	13.1	2.45*	31.6	2.48*	2.8*	33.9	27	18.2	42.9
	7/12/2022	N/A	N/A	N/A	N/A	12.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2023	< 5	8.92	10.5	< 5	13.3	< 5	33.7	< 5	2.27*	35.3	31.7	20.5	46.4
	8/16/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	8/27/2024	< 5	9.03	10.4	2.75*	13.2	< 5	36.9	< 5	2.56*	36.6	30.3	24.1	51.8
	8/27/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.56*	N/A	N/A	N/A	N/A
	5/20/2025	< 5	12*	N/A	2.77*	13.8	< 5	39.2	2.38*	2.71*	40.6	33.1	25.2	49.7
	5/20/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.72*	N/A	N/A	N/A	N/A
Nitrogen, Ammonia, mg/L (CAS NO - 7664-41-7) HAL - 30.0 mg/L	4/1/1995	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.42	0.33	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
	7/1/1995	0.23	< 0.2	< 0.2	< 0.2	0.76	0.77	1.14	0.21	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
	10/1/1995	0.23	< 0.2	< 0.2	< 0.2	0.28	0.44	0.77	0.24	0.23	< 0.2	< 0.2	< 0.2	< 0.2
	1/1/1996	0.2	< 0.2	< 0.2	< 0.2	0.3	0.71	0.75	0.28	0.27	< 0.2	< 0.2	< 0.2	< 0.2
	4/1/1996	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1
	10/1/1996	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	4/1/1997	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	10/1/1997	< 1	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1	< 1	< 1	< 1	< 1
	4/1/1998	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	10/1/1998	< 1	< 1	< 1	< 1	< 1	< 1	1.02	< 1	< 1	< 1	< 1	< 1	< 1
	4/1/1999	< 1	< 1	< 1	< 1	< 1	< 1	1.4	< 1	< 1	< 1	< 1	< 1	< 1
	10/1/1999	< 1	< 1	< 1	< 1	< 1	< 1	1.12	< 1	< 1	< 1	< 1	< 1	< 1
	4/1/2000	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	10/1/2000	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	4/1/2001	< 1	< 1	< 1	< 1	< 1	< 1	1.5	< 1	< 1	< 1	< 1	< 1	< 1
	10/1/2001	< 1	< 1	< 1	< 1	< 1	< 1	1.3	< 1	< 1	< 1	< 1	< 1	< 1
	4/1/2002	< 1	< 1	< 1	< 1	< 1	< 1	1.2	< 1	< 1	< 1	< 1	< 1	< 1
	10/1/2002	< 1	< 1	< 1	< 1	< 1	< 1	1.3	< 1	< 1	< 1	< 1	< 1	< 1
	4/23/2003	0.21	< 0.2	< 0.2	< 0.2	< 0.2	0.62	1.32	< 0.2	0.22	< 0.2	< 0.2	< 0.2	< 0.2
	10/14/2003	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.55	1.16	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
	4/7/2004	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.5	1.19	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
	10/13/2004	< 0.2	0.29	< 0.2	< 0.2	< 0.2	0.55	0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
	4/7/2005	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.5	1.05	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2

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Other Constituents	Sample Date	MW-13 UPG	MW-15 UPG	MW-16 UPG	MW-19 UPG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-14 DNG
Nitrogen, Ammonia, mg/L (CAS NO - 7664-41-7) HAL - 30.0 mg/L	10/7/2005	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.55	0.27	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
	4/4/2006	0.242	< 0.2	< 0.2	< 0.2	< 0.2	0.528	1.44	< 0.2	0.216	< 0.2	< 0.2	< 0.2	< 0.2
	10/13/2006	0.252	< 0.2	< 0.2	< 0.2	< 0.2	0.626	< 0.2	0.251	0.262	< 0.2	< 0.2	< 0.2	< 0.2
	4/4/2007	< 0.2	< 0.2	0.252	< 0.2	< 0.2	0.487	0.24	< 0.2	< 0.2	0.252	< 0.2	< 0.2	< 0.2
	10/9/2007	0.239	< 0.2	< 0.2	< 0.2	< 0.2	0.477	1.6	0.244	0.21	< 0.2	< 0.2	< 0.2	< 0.2
	4/17/2008	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.604	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
	10/10/2008	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.351	1.1	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
	4/28/2009	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.505	1.14	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
	10/14/2009	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.45	1.24	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
	10/28/2010	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.506	< 0.2	< 0.2	0.268	< 0.2	< 0.2	< 0.2	< 0.2
	4/13/2011	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.572	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
	10/13/2011	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.549	< 0.2	0.228	0.228	< 0.2	< 0.2	< 0.2	< 0.2
	4/24/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	10/23/2012	0.214	< 0.2	< 0.2	< 0.2	< 0.2	0.562	1.28	0.231	0.219	< 0.2	< 0.2	< 0.2	< 0.2
	4/11/2013	0.255	< 0.2	< 0.2	< 0.2	< 0.2	0.544	< 0.2	0.231	0.247	< 0.2	< 0.2	< 0.2	< 0.2
	10/29/2013	0.228	< 0.2	< 0.2	0.065	0.066	0.651	2.66	0.278	0.247	< 0.2	< 0.2	< 0.2	< 0.2
	4/8/2014	0.213	< 0.2	< 0.2	< 0.2	< 0.2	0.519	1.7	0.201	0.22	< 0.2	< 0.2	< 0.2	< 0.2
	10/13/2014	0.219	< 0.2	< 0.2	0.129	< 0.2	0.482	1.74	0.22	0.186	< 0.2	< 0.2	< 0.2	< 0.2
	4/1/2015	0.2	< 0.2	< 0.2	0.118	< 0.2	0.494	1.73	0.13	0.157	< 0.2	< 0.2	< 0.2	< 0.2
	10/12/2015	0.165	< 0.2	< 0.2	< 0.2	< 0.2	0.438	2.32	0.145	0.104	< 0.2	< 0.2	< 0.2	< 0.2
	4/19/2016	0.176	< 0.2	< 0.2	< 0.2	< 0.2	0.42	1.88	0.175	0.124	< 0.2	< 0.2	< 0.2	< 0.2
	10/17/2016	0.194	< 0.2	< 0.2	< 0.2	< 0.2	0.484	1.95	0.259	0.191	< 0.2	< 0.2	< 0.2	< 0.2
	4/4/2017	0.239	< 0.2	< 0.2	< 0.2	< 0.2	0.507	0.66	0.246	0.248	< 0.2	< 0.2	< 0.2	< 0.2
	10/24/2017	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.478	0.234	0.193	0.182	< 0.2	< 0.2	< 0.2	< 0.2
	4/9/2018	0.227	< 0.2	< 0.2	< 0.2	< 0.2	0.536	0.523	0.114	0.228	< 0.2	< 0.2	< 0.2	< 0.2
	8/21/2018	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.607	0.383	0.261	0.242	< 0.2	0.224	< 0.2	< 0.2
	3/6/2019	0.162	< 0.2	N/A	< 0.2	N/A	N/A	0.247	0.184	0.118	< 0.2	N/A	< 0.2	< 0.2
	4/8/2019	N/A	N/A	< 0.2	N/A	< 0.2	0.499	N/A	N/A	N/A	< 0.2	< 0.2	N/A	N/A
	9/4/2019	0.256	< 0.2	< 0.2	< 0.2	< 0.2	0.586	0.292	0.279	0.239	< 0.2	< 0.2	< 0.2	< 0.2
	9/4/2019	N/A	N/A	N/A	N/A	N/A	N/A	0.246	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2020	0.249	< 0.2	< 0.2	< 0.2	< 0.2	0.556	0.337	0.27	0.227	< 0.2	< 0.2	< 0.2	< 0.2
	5/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.256	N/A	N/A	N/A	N/A	N/A
	6/9/2021	0.271	< 0.2	< 0.2	< 0.2	< 0.2	0.57	0.344	0.257	0.227	< 0.2	0.148*	< 0.2	< 0.2
	6/9/2021	N/A	N/A	N/A	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/12/2022	0.311	< 0.2	0.146*	0.156*	0.12*	0.585	0.393	0.298	0.294	< 0.2	0.121*	< 0.2	< 0.2
	7/12/2022	N/A	N/A	N/A	N/A	0.105*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2023	0.384	< 0.2	0.177*	0.121*	0.108*	0.641	0.396	0.356	0.293	< 0.2	0.13*	< 0.2	< 0.2
	8/16/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.337	N/A	N/A	N/A	N/A	N/A
	8/27/2024	0.388	< 0.2	< 0.2	< 0.2	< 0.2	0.556	0.31	0.249	0.253	< 0.2	< 0.2	< 0.2	< 0.2
	8/27/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.27	N/A	N/A	N/A	N/A
	5/20/2025	0.297	0.63	N/A	0.951	0.134*	0.694	0.387	0.373	0.35	< 0.2	0.154*	0.198*	< 0.2
	5/20/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.327	N/A	N/A	N/A	N/A
pH, S.U. (CAS NO - PH) SDWR - 6.5 - 8.5 S.U.	4/1/1995	7.86	7.65	7.04	6.64	8.69	9.15	8.27	8.4	7.93	8.27	7.19	7.7	7.78
	7/1/1995	7.18	6.87	7.1	7.21	7.04	7.35	6.67	7.02	7.13	6.95	6.36	6.83	7.22
	10/1/1995	5.12	5.37	5.1	5.91	5.25	5.3	5.31	5.38	5.93	5.88	5.06	5.47	5.13
	4/1/1996	7.12	6.86	7	7.21	7.21	7.19	6.99	7.26	6.89	6.73	6.32	6.99	7.25
	10/1/1996	7.19	6.68	6.16	6.35	6.9	7.17	6.92	7.4	7.19	7.23	6.4	6.9	7.39
	4/1/1997	6.9	7.1	7.4	7.4	7.4	7.6	7.6	7.4	7.2	7.1	6.6	7.1	7.6
	10/1/1997	7.6	7.1	7.5	7.9	7.5	8	6.9	7.6	7.6	7.5	6.9	7.4	7.7
	4/1/1998	8	7.7	7.8	6.9	7.1	7.6	6.7	7.3	7.2	7.2	7	7.4	8.3
	10/1/1998	7.9	7.8	8.1	8.4	8.1	7.8	7.4	8.1	7.9	7.8	7.4	8.4	7.8

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Other Constituents	Sample Date	MW-13 UPG	MW-15 UPG	MW-16 UPG	MW-19 UPG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-14 DNG
pH, S.U. (CAS NO - PH) SDWR - 6.5 - 8.5 S.U.	4/1/1999	7.5	7.5	7.5	7.2	7.4	7.6	6.7	7.8	7.6	7.4	6.5	7.2	7.6
	10/1/1999	7.8	7.4	7.8	7.8	8.1	8.5	6.8	8.1	7.8	7.6	6.7	7.8	7.8
	4/1/2000	7.7	7.6	7.3	7.2	7.9	8.1	6.9	7.8	8	7.6	6.8	7.8	7.7
	10/1/2000	8.1	8.1	8.3	8.6	7.9	8	8	7.9	7.8	8	7.7	8.2	8.2
	4/1/2001	7.8	7.7	7.7	7.8	7.9	7.8	7.9	7.8	7.8	7.8	7.7	7.8	7.9
	10/1/2001	8	7.4	7.6	7.8	7.6	7.8	6.7	7.8	7.6	7.6	6.6	7.4	8
	4/1/2002	7.6	7.2	7.2	7.5	7.1	7.8	6.5	7.4	7.8	7.4	6.4	7.1	7.6
	10/1/2002	7.4	6.6	7.1	6.9	6.5	7.6	7.2	7.4	7.2	7	6.4	7	6.8
	4/23/2003	7.17	6.78	7.15	7.18	7.04	7.49	6.41	7.38	7.31	7.1	6.32	6.8	7.39
	10/14/2003	7.04	6.68	7.13	7.14	6.87	7.62	6.28	7.34	7.23	6.95	6.26	7.33	7.24
	4/7/2004	7.67	7.4	7.73	7.78	7.83	7.97	6.95	7.72	7.71	7.54	6.83	7.56	7.55
	10/13/2004	7.1	6.59	7.11	7.12	7.34	7.08	7.47	7.67	7.74	7.36	6.62	7.77	7.3
	4/7/2005	7.67	7.4	7.73	7.78	7.83	7.97	6.95	7.72	7.71	7.54	6.83	7.56	7.55
	10/7/2005	7.13	7.07	7	6.99	7.3	7.1	7.57	7.7	7.8	7.51	7.7	8	7.42
	4/4/2006	7.18	6.75	6.97	6.92	6.87	7.06	6.64	6.81	6.99	6.85	6.39	6.69	7.14
	10/13/2006	7.22	6.63	7.21	7.06	7.22	6.99	7.55	7.74	7.83	7.22	6.93	7.65	7.46
	4/4/2007	7.74	7.22	7.51	6.99	7.51	7.6	7.22	7.55	7.54	7.46	7	7.48	7.56
	10/9/2007	7.12	6.65	7.05	7.09	6.83	7.3	6.55	7.19	7.16	6.85	6.31	7.23	7.12
	4/17/2008	7.34	7.12	7.3	6.59	7.43	7.16	7.22	7.81	7.97	7.4	7.73	7.54	7.77
	10/10/2008	7.36	6.87	7.17	7.26	6.81	7.23	6.79	7.08	7.17	6.92	6.38	7.02	7.28
	4/28/2009	7.03	7.18	7.11	6.97	7.01	7.7	6.8	7.11	7.32	7.01	6.55	6.86	7.25
	10/14/2009	7.35	7.2	7.19	7.24	7.11	7.54	6.65	7.31	7.31	6.99	6.44	7.02	7.36
	4/21/2010	7.18	7.12	7.2	7.19	7.01	7.45	6.82	7.28	7.31	7.07	6.5	7.06	7.28
	10/28/2010	7.1	7.2	6.91	7.2	6.8	7.62	7.12	7.54	7.4	7.05	6.71	6.82	7.42
	4/13/2011	7.33	7.21	7.15	7.5	6.93	7.45	7.2	7.5	7.54	7.23	7.59	7.24	7.55
	10/13/2011	7.35	7.25	7.2	7.6	6.97	7.5	6.7	7.6	7.58	7.05	7.62	7.29	7.6
	4/24/2012	8.2	7.25	7.2	7.5	6.93	6.59	6.7	7.8	7.5	7.69	7.3	7.25	7.7
	10/23/2012	7.3	6.95	7.58	7.1	7.5	7.49	6.98	7	7.2	7.1	7.05	6.85	7.2
	4/11/2013	8.15	7.15	7.25	7.6	7.55	6.8	7	7.89	7.58	7.7	7.4	7.05	7.8
	10/29/2013	7.43	7.16	7.7	7.39	7.4	8.29	7.02	6.82	6.97	6.98	6.69	6.68	7.46
	4/8/2014	7.83	7.63	7.75	7.39	6.97	7.15	7.3	6.2	7.2	7.4	6.65	7	8
	10/13/2014	8.26	8.6	7.89	7.62	8.48	7.63	8.07	7.27	7.32	7.12	7.5	8.53	7.74
	4/1/2015	7.71	7.48	7.85	7.85	7.64	7.98	9.38	7.81	7.75	7.59	7.15	8.08	7.74
	10/12/2015	7.94	7.52	7.57	7.59	7.36	6.96	6.6	7.7	7.91	7.49	6.98	7.63	7.86
	4/19/2016	7.54	7.47	7.75	7.47	7.21	7.85	6.79	7.93	7.9	7.75	7.06	7.75	7.68
	10/17/2016	7.66	7.41	8.48	7.99	7.51	8.05	7.1	8.19	8.04	7.46	8.2	8.04	8.5
	4/4/2017	7.94	6.91	7.34	7.59	7.04	7.56	6.63	7.35	7.34	7.08	6.52	6.88	7.18
	10/24/2017	7.44	6.93	7.38	7.34	7.47	7.7	6.68	7.38	7.39	7.11	6.51	6.91	7.45
	4/9/2018	7.27	6.76	7.18	7.2	6.93	7.53	6.56	7.3	7.25	7.02	6.42	7.1	7.26
	8/21/2018	7.32	7.65	7.24	7.11	7.5	7.65	7.65	7.3	7.2	7	6.84	7.89	7.12
	3/6/2019	6.98	6.74	7.04	7.07	N/A	N/A	6.24	7.16	7.16	6.83	N/A	6.88	7.01
	4/8/2019	N/A	N/A	6.89	N/A	6.66	7.28	N/A	N/A	N/A	N/A	6.27	N/A	N/A
	9/4/2019	7.14	6.53	7.23	7.28	6.85	7.47	6.4	7.16	7.11	6.81	6.29	6.83	7.07
	5/20/2020	7.13	6.64	7.01	7.07	6.81	7.35	6.38	7.15	7.07	6.84	6.19	6.48	7.08
	6/9/2021	7.05	6.58	6.99	7.05	6.79	7.37	6.34	7.1	7.1	6.78	6.28	6.74	7.02
	7/12/2022	7.12	6.55	6.74	7.01	6.78	7.36	6.34	7	7.07	6.74	6.27	6.86	7.07
	8/16/2023	7.05	6.47	6.83	6.94	6.66	7.23	6.32	7.05	7.02	6.74	6.25	6.89	6.97
	8/27/2024	7.04	6.48	6.91	7.08	6.72	7.3	6.32	7.01	7.1	6.69	6.23	6.72	7
	5/20/2025	7.06	6.5	N/A	6.97	6.78	7.37	6.36	7.08	7.07	6.77	6.25	6.83	7
Phosphorus, mg/L (CAS NO - 7723-14-0)	10/24/2017	0.0517	< 0.1	< 0.1	0.053	< 0.1	0.0756	< 0.1	0.0681	< 0.1	< 0.1	0.0616	0.0477	0.105
	4/9/2018	< 0.1	< 0.1	0.0493	< 0.1	0.0708	0.0599	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

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Other Constituents	Sample Date	MW-13 UPG	MW-15 UPG	MW-16 UPG	MW-19 UPG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-14 DNG
Phosphorus, mg/L (CAS NO - 7723-14-0)	8/21/2018	< 0.1	< 0.1	0.355	0.0705	< 0.1	0.0512	1.44	< 0.1	< 0.1	< 0.1	0.0854	0.117	0.463
	3/6/2019	0.0489	< 0.1	N/A	0.0793	N/A	N/A	< 0.1	< 0.1	< 0.1	< 0.1	N/A	< 0.1	< 0.1
	9/4/2019	< 0.1	< 0.1	< 0.1	< 0.1	0.048*	0.0686*	0.0528*	< 0.1	< 0.1	0.0444*	< 0.1	< 0.1	< 0.1
	9/4/2019	N/A	N/A	N/A	N/A	N/A	N/A	0.051*	N/A	N/A	N/A	N/A	N/A	N/A
Specific Conductance, umhos/cm (CAS NO - SC)	4/1/1995	651	2400	748	665	742	668	1719	614	620	1372	2670	1816	595
	7/1/1995	698	2250	799	733	824	751	1957	700	688	1404	2840	1889	661
	10/1/1995	695	3220	798	691	874	737	1913	716	687	1451	2870	1715	630
	1/1/1996	996	N/A	N/A	N/A	N/A	N/A	N/A	N/A	651	1438	2650	1675	836
	4/1/1996	620	1860	690	620	730	680	1570	650	740	1280	2450	1620	580
	10/1/1996	310	1340	430	440	380	340	1650	280	290	620	1770	1070	380
	4/1/1997	630	2050	670	440	620	560	1860	480	580	1060	2060	1390	550
	10/1/1997	610	1730	660	650	760	660	1850	620	610	1060	2640	1510	550
	4/1/1998	500	2000	600	500	700	600	1400	600	600	1000	2400	1500	500
	10/1/1998	660	220	750	660	820	780	1660	640	610	1120	2730	1700	620
	4/1/1999	594	1675	708	666	723	681	1683	593	608	1000	2510	1600	625
	10/1/1999	597	1840	683	606	732	651	1630	598	624	1010	2450	1484	550
	4/1/2000	620	2070	770	710	732	651	1630	624	664	1036	2670	1478	680
	10/1/2000	5830	960	755	670	790	660	940	550	684	950	2430	1365	627
	4/1/2001	640	1700	654	590	732	600	1617	488	587	756	1836	1514	560
	10/1/2001	664	1953	720	665	831	711	1753	594	607	985	2500	1628	616
	4/1/2002	621	2130	652	587	862	751	1846	525	602	930	2640	1648	596
	10/1/2002	683	2070	810	730	2090	780	939	658	686	1130	2870	1793	728
	4/23/2003	628	1726	715	640	871	690	1617	635	648	1099	2096	1365	605
	10/14/2003	636	2068	778	665	928	701	1906	726	688	1099	2758	1509	647
	4/7/2004	632	1760	748	649	970	684	1918	642	643	1365	2721	1634	633
	10/13/2004	620	2070	792	652	885	537	764	153	723	1054	2459	1415	655
	4/7/2005	632	1760	748	649	970	684	1918	642	643	1365	2721	1634	633
	10/7/2005	604	1562	633	580	890	629	1725	577	616	2155	1450	1400	569
	4/4/2006	625	1940	730	633	990	662	1893	663	631	1171	2560	1534	629
	10/13/2006	695	2180	833	620	899	549	673	202	699	1103	2320	1339	702
	4/4/2007	714	1655	700	613	1000	800	1400	555	815	987	2001	1315	598
	10/9/2007	692	2280	832	723	1105	763	1992	708	703	1343	3000	1609	739
	4/17/2008	740	1010	750	701	880	620	982	633	684	1134	1214	1484	622
	10/10/2008	536	980	606	554	789	599	1159	560	559	947	1428	1088	551
	4/28/2009	725	1633	890	733	1188	757	1865	751	789	1285	3100	1876	825
	10/14/2009	594	1114	701	608	938	634	1442	594	616	1171	2940	2010	646
	4/21/2010	672	1349	794	597	1127	730	1362	648	641	1310	2620	1649	761
	10/28/2010	680	1117	739	618	1001	642	1534	601	620	1341	2420	1697	750
	4/13/2011	710	1320	1251	1325	1225	822	823	754	752	1300	1289	1703	820
	10/13/2011	668	1325	1175	1225	1095	709	1388	668	725	1225	1185	1505	859
	4/24/2012	688	1320	1180	1220	1090	1120	1375	650	824	1123	1500	1125	855
	10/23/2012	630	1410	1150	1200	1114	706	1480	790	680	1215	1100	1526	750
	4/11/2013	870	1170	1229	1205	1080	1115	1365	645	1130	1510	1130	689	790
	10/29/2013	639	1499	739	625	1064	669	2300	652	657	981	2820	1526	744
	4/8/2014	805	1665	740	635	1088	702	1775	645	666	949	2880	1414	754
	10/13/2014	696	1806	810	704	1154	535	1871	732	777	1158	2550	1517	808
	4/1/2015	706	1916	852	724	1230	753	1952	690	707	1350	2706	1370	829
	10/12/2015	632	1565	754	627	1025	678	1708	667	648	1197	2351	1357	736
	4/19/2016	569	264	680	609	947	312	1620	563	570	1190	2068	1220	736
	10/17/2016	680	1641	842	679	1099	704	1896	692	684	1308	2601	1453	895
	4/4/2017	624	1492	747	574	885	533	1397	496	517	976	1971	1284	548

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Other Constituents	Sample Date	MW-13 UPG	MW-15 UPG	MW-16 UPG	MW-19 UPG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-14 DNG
Specific Conductance, umhos/cm (CAS NO - SC)	10/24/2017	595	1414	681	603	1008	654	1569	637	646	1094	2141	1184	779
	4/9/2018	645	1967	769	660	1159	691	1758	661	675	1366	2602	1380	807
	8/21/2018	1027	1792	1209	843	1465	709	1889	692	642	1294	2704	901	944
	3/6/2019	512	1322	638.8	554	N/A	N/A	1660.8	517	532	876	N/A	1046	626
	4/8/2019	N/A	N/A	754	N/A	1120.3	686.1	N/A	N/A	N/A	N/A	2484.3	N/A	N/A
	9/4/2019	601	1343.9	682	718.7	956.1	671.9	1459.2	636.7	642.4	1131.6	1857.1	1141.6	746.6
	5/20/2020	574.5	1710.5	681	586.4	995.9	619.4	1641.8	591.7	603.2	1017.3	2262.1	1294.2	744.2
	6/9/2021	653.4	2026.4	779	672	1142.7	711.9	1926.2	678.6	690.4	1457.6	2617.6	1556.3	856.2
	7/12/2022	626.3	1896.7	755.5	644.4	1144.6	690.3	1911.3	645.9	668.5	1288.5	2539.8	1383.5	824.2
	8/16/2023	653.5	1989	765.3	652.6	1096.3	693	1907.2	662	673.9	1277.7	2554.4	1231.4	846.8
	8/27/2024	665.3	2170.5	803	683.3	1146.2	723.6	1976.3	696.6	712.8	1449.1	2650.9	1269.6	876.6
	5/20/2025	644.4	2197.8	N/A	668.2	1127	694	1897.8	668.6	685.1	1460.2	2575.5	1252.2	851.6
Sulfate, mg/L (CAS NO - 14808-79-8) MCLG - 500 mg/L SDWR - 250 mg/L	4/1/1995	6.9	1000	11	6.5	37	12	240	7	6.8	160	720	780	16
	7/1/1995	8.5	1000	15	9.2	43	11	270	8.6	8.4	350	720	800	14
	10/1/1995	10	1100	17	17	37	11	310	8.4	8.6	410	730	900	22
	1/1/1996	7.4	980	13	5.4	39	9.3	220	7.1	7	430	800	740	19
	10/1/1996	N/A	843	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	636	729	N/A
	4/1/1997	N/A	1130	N/A	N/A	48.2	N/A	N/A	N/A	N/A	N/A	759	N/A	N/A
	10/1/1997	N/A	1080	N/A	N/A	51.3	N/A	N/A	N/A	N/A	N/A	681	663	N/A
	4/1/1998	N/A	1200	N/A	N/A	58	N/A	N/A	N/A	N/A	N/A	796	807	N/A
	7/1/1998	7.8	925	13.3	5.3	53.4	7.5	280	7	7.5	218	768	731	26.7
	10/1/1998	26	1030	15	9	62	10	244	9	9	217	664	675	26
	4/1/1999	9.6	914	17.5	4.8	62.4	9.8	222	8.7	10.2	205	759	750	40.5
	10/1/1999	N/A	922	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	735	785	N/A
	4/1/2000	N/A	1890	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	705	681	N/A
	10/1/2000	N/A	1240	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	820	765	N/A
	4/1/2001	N/A	1010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	719	712	N/A
	10/1/2001	N/A	921	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	679	614	N/A
	4/1/2002	N/A	916	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	804	725	N/A
	10/1/2002	N/A	816	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	773	N/A	N/A
	4/23/2003	N/A	850	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	690	530	N/A
	10/14/2003	N/A	930	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	840	700	N/A
	4/7/2004	N/A	1100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	840	700	N/A
	10/13/2004	N/A	730	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	920	690	N/A
	4/7/2005	N/A	820	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	890	780	N/A
	10/7/2005	N/A	920	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	880	890	N/A
	4/4/2006	N/A	1160	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1220	817	N/A
	10/13/2006	N/A	943	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	843	730	N/A
	4/4/2007	N/A	841	14.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	763	400	N/A
	10/9/2007	N/A	817	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	849	635	N/A
	4/17/2008	N/A	870	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	827	656	N/A
	10/10/2008	N/A	534	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	787	687	N/A
	4/28/2009	N/A	578	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	834	763	N/A
	10/14/2009	N/A	340	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	700	700	N/A
	4/21/2010	N/A	363	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	199	701	N/A
	10/28/2010	N/A	242	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	751	727	N/A
	4/13/2011	N/A	365	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	754	635	N/A
	10/13/2011	N/A	380	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	802	644	N/A
	4/24/2012	N/A	517	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	699	934	N/A
	10/23/2012	N/A	421	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	811	600	N/A
	4/11/2013	N/A	552	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	804	628	N/A

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Other Constituents	Sample Date	MW-13 UPG	MW-15 UPG	MW-16 UPG	MW-19 UPG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-14 DNG
Sulfate, mg/L (CAS NO - 14808-79-8) MCLG - 500 mg/L SDWR - 250 mg/L	10/29/2013	N/A	690	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	866	661	N/A
	4/8/2014	N/A	592	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	811	554	N/A
	10/13/2014	N/A	520	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	744	461	N/A
	4/1/2015	N/A	731	13.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	801	463	N/A
	10/12/2015	N/A	621	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	786	481	N/A
	4/19/2016	N/A	765	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	779	501	N/A
	10/17/2016	N/A	607	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	808	499	N/A
	4/4/2017	N/A	935	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	875	555	N/A
	10/24/2017	N/A	658	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	821	507	N/A
	4/9/2018	N/A	825	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	803	470	N/A
	8/21/2018	N/A	652	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	781	464	N/A
	3/6/2019	N/A	734	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	424	N/A
	4/8/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	806	N/A	N/A
	9/4/2019	N/A	724	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	767	444	N/A
	5/20/2020	N/A	874	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	808	486	N/A
	6/9/2021	N/A	926	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	773	544	N/A
	7/12/2022	N/A	878	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	720	438	N/A
	8/16/2023	N/A	871	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	748	398	N/A
	8/27/2024	N/A	941	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	716	357	N/A
	5/20/2025	7.59	1040	N/A	9.2	158	8.39	243	9.54	14.6	398	806	377	34.6
	5/20/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	14	N/A	N/A	N/A	N/A
Sulfur, mg/L (CAS NO - 7704-34-9)	10/24/2017	2.1	187	5.18	3.04	51.7	2.85	83.2	2.9	3.53	70.9	247	157	10
	4/9/2018	2.13	273	5.33	2.86	59.9	2.75	78.7	2.45	3.69	103	269	156	10.5
	8/21/2018	< 0.5	225	4.86	0.828	58.6	5.64	92	4.33	5.57	75.4	273	156	13.9
	3/6/2019	2.12	268	N/A	2.97	N/A	N/A	83.2	2.38	3.59	117	N/A	144	9.95
	9/4/2019	2.11	258	5.11	3.08	61.2	2.48	83.9	2.57	3.45	96.9	278	159	10.9
	9/4/2019	N/A	N/A	N/A	N/A	N/A	N/A	64	N/A	N/A	N/A	N/A	N/A	N/A
	10/1/1995	< 0.01	0.018	< 0.01	< 0.01	< 0.01	< 0.01	0.049	< 0.01	< 0.01	0.02	0.06	< 0.01	< 0.01
Total Organic Halogens, mg/L (CAS NO - TOX)	10/1/1996	< 0.01	0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01	0.07	< 0.01	0.01
	10/1/1997	< 0.01	0.02	< 0.01	< 0.01	< 0.01	< 0.01	0.03	< 0.01	< 0.01	0.02	0.06	< 0.01	0.01
	10/1/1998	< 0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.02	< 0.01	< 0.01	0.01	0.06	0.01	< 0.01
	10/1/1999	< 0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.02	< 0.01	< 0.01	< 0.01	0.06	< 0.01	< 0.01
	10/1/2000	< 0.01	0.04	< 0.0001	0.04	0.01	< 0.01	0.05	< 0.01	< 0.01	0.01	0.07	0.02	< 0.01
	10/1/2001	0.011	0.048	0.02	0.015	< 0.01	0.014	0.059	0.014	0.01	0.015	0.09	0.019	< 0.1
	10/1/2002	< 0.01	0.033	0.019	0.016	0.146	0.211	0.093	0.01	0.013	0.036	0.106	0.068	0.053
	10/14/2003	< 0.01	0.017	< 0.01	< 0.01	< 0.01	< 0.01	0.036	< 0.01	< 0.01	< 0.01	0.053	0.011	< 0.01
	10/13/2004	< 0.01	0.012	< 0.01	< 0.01	< 0.01	< 0.01	0.019	< 0.01	< 0.01	0.012	0.055	< 0.01	< 0.01
	10/7/2005	< 0.01	0.011	< 0.01	< 0.01	< 0.01	< 0.01	0.019	< 0.01	< 0.01	< 0.01	0.039	< 0.01	< 0.01
	10/13/2006	< 0.01	0.0115	< 0.01	< 0.01	< 0.01	< 0.01	0.0127	< 0.01	< 0.01	0.0133	0.0425	< 0.01	< 0.01
	10/9/2007	< 0.01	0.017	< 0.01	< 0.01	< 0.01	< 0.01	0.0188	< 0.01	< 0.01	0.0216	0.0399	0.0128	< 0.01
	10/10/2008	< 0.01	0.0147	< 0.01	< 0.01	0.012	< 0.01	0.0274	< 0.01	< 0.01	0.0266	0.0369	< 0.01	< 0.01
	10/14/2009	< 0.01	0.0119	< 0.01	< 0.01	< 0.01	< 0.01	0.0252	< 0.01	< 0.01	0.0253	0.0394	0.0119	< 0.01
	4/21/2010	< 0.01	0.0135	< 0.01	< 0.01	0.0145	0.011	0.0448	0.0125	< 0.01	0.0199	0.0443	0.015	< 0.01
	10/28/2010	< 0.01	< 0.01	< 0.01	< 0.01	0.0161	< 0.01	0.0221	< 0.01	< 0.01	0.0206	0.0378	0.0167	< 0.01
	10/13/2011	< 0.01	0.0162	< 0.01	< 0.01	0.0135	< 0.01	0.0148	< 0.01	< 0.01	0.0196	0.0372	0.0164	< 0.01
	10/23/2012	< 0.01	0.0264	0.0321	0.0124	0.0187	< 0.01	0.185	< 0.01	< 0.01	0.0239	0.0411	0.03	< 0.01
	10/29/2013	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.0457	< 0.03	< 0.03	< 0.03	0.0485	< 0.03	< 0.03
	10/13/2014	< 0.03	0.0216	< 0.03	< 0.03	0.0167	< 0.03	0.105	< 0.03	< 0.03	0.0222	0.0786	0.0194	0.0196
	10/12/2015	0.0198	0.0327	0.0187	0.0314	0.0499	0.0269	0.103	0.0567	0.0382	0.0424	0.131	0.0391	0.0266
	10/17/2016	< 0.03	0.0163	0.01	0.0228	0.0107	< 0.03	0.0793	< 0.03	0.012	0.022	0.0507	< 0.03	< 0.03
	10/24/2017	< 0.03	0.0178	< 0.03	< 0.03	0.0118	< 0.03	0.0188	0.0132	< 0.03	0.0137	0.0476	0.0145	< 0.03

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Summary of Groundwater Chemistry

U.S. Gypsum Sperry Landfill 29 SDP 04 89C

Other Constituents	Sample Date	MW-13 UPG	MW-15 UPG	MW-16 UPG	MW-19 UPG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-14 DNG
Total Organic Halogens, mg/L (CAS NO - TOX)	4/9/2018	< 0.03	0.0202	0.025	< 0.03	0.0127	< 0.03	0.0244	< 0.03	< 0.03	0.0161	0.0491	< 0.03	< 0.03
	8/21/2018	0.0165	< 0.03	< 0.03	0.0142	< 0.03	< 0.03	0.0655	< 0.03	< 0.03	0.0105	0.0269	0.0122	< 0.03
	3/6/2019	< 0.03	0.0152	N/A	< 0.03	N/A	N/A	0.0279	< 0.03	< 0.03	0.0116	N/A	< 0.03	< 0.03
	4/8/2019	N/A	N/A	< 0.03	N/A	< 0.03	< 0.03	N/A	N/A	N/A	N/A	0.0242	N/A	N/A
	9/4/2019	< 0.01	0.016	< 0.01	< 0.01	< 0.01	< 0.01	0.021	< 0.01	0.021	< 0.01	0.026	< 0.01	< 0.01
	9/4/2019	N/A	N/A	N/A	N/A	N/A	N/A	0.054	N/A	N/A	N/A	N/A	N/A	N/A
Total Phenols, mg/L (CAS NO - 108-95-2) HAL - 2.0 mg/L	10/1/1995	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.02	0.028	0.028	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	10/1/1996	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	10/1/1997	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	10/1/1998	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	10/1/1999	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	10/1/2000	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	10/1/2001	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	10/1/2002	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	10/14/2003	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	10/13/2004	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	10/7/2005	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	10/13/2006	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	10/9/2007	< 0.018	< 0.02	< 0.02	< 0.02	< 0.018	< 0.02	< 0.018	< 0.02	< 0.02	< 0.018	< 0.02	< 0.018	< 0.018
	10/10/2008	< 0.018	< 0.018	< 0.018	< 0.02	< 0.02	< 0.02	< 0.02	< 0.018	< 0.018	< 0.018	< 0.018	< 0.02	< 0.02
	10/14/2009	< 0.02	< 0.02	< 0.018	< 0.02	< 0.02	< 0.02	< 0.018	< 0.02	< 0.02	< 0.02	< 0.018	< 0.02	< 0.018
	4/21/2010	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.02	< 0.02	< 0.02	< 0.018	< 0.02	< 0.018	< 0.018
	10/28/2010	< 0.018	< 0.02	< 0.018	< 0.018	0.0872	< 0.018	< 0.018	< 0.02	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018
	10/13/2011	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.018	< 0.018	< 0.02	< 0.02	< 0.02	106	< 0.02	< 0.02
	10/23/2012	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.018	< 0.02	< 0.02
	10/29/2013	< 0.02	< 0.0208	< 0.02	< 0.0192	< 0.0204	0.0053	< 0.02	< 0.0208	< 0.02	< 0.02	< 0.0192	< 0.0196	< 0.02
	10/13/2014	< 0.0208	< 0.0212	< 0.0204	< 0.0212	0.0073	< 0.0196	< 0.02	0.00732	0.017	0.0077	0.00781	< 0.018	< 0.0192
	10/12/2015	< 0.0208	< 0.018	< 0.0204	< 0.018	< 0.0196	< 0.0204	< 0.0196	< 0.018	< 0.018	< 0.0216	< 0.0212	< 0.018	< 0.0216
	10/17/2016	< 0.018	< 0.018	< 0.018	< 0.018	< 0.0184	0.00593	< 0.018	< 0.018	< 0.0184	< 0.0184	< 0.0184	< 0.0192	< 0.018
	10/24/2017	< 0.0188	< 0.02	< 0.0192	< 0.0196	< 0.0184	< 0.018	< 0.0192	< 0.0188	< 0.02	< 0.0192	< 0.02	< 0.0196	< 0.02
	4/9/2018	< 0.0192	< 0.018	< 0.02	< 0.0208	< 0.0184	< 0.0188	< 0.0184	< 0.018	< 0.018	< 0.04	0.016	< 0.0204	< 0.018
	8/21/2018	< 0.0192	< 0.02	< 0.0196	< 0.02	< 0.0212	< 0.0224	< 0.02	< 0.0208	< 0.0204	< 0.02	< 0.0196	< 0.0192	< 0.0196
	3/6/2019	< 0.0204	< 0.0212	N/A	< 0.0216	N/A	N/A	< 0.02	< 0.0188	< 0.0208	< 0.0188	N/A	< 0.018	< 0.0212
	4/8/2019	N/A	N/A	< 0.0192	N/A	< 0.02	< 0.02	N/A	N/A	N/A	N/A	< 0.0192	N/A	N/A
	9/4/2019	< 0.0184	< 0.02	< 0.0188	< 0.018	< 0.0188	< 0.0188	< 0.02	< 0.0192	< 0.0184	< 0.0192	< 0.0184	< 0.0196	< 0.0188
	9/4/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0184	N/A	N/A	N/A	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.

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Summary of Groundwater Chemistry U.S. Gypsum Sperry Landfill 29 SDP 04 89C

Geochemistry Constituents	Sample Date	MW-13 UPG	MW-15 UPG	MW-16 UPG	MW-19 UPG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-14 DNG
Alkalinity, Total [CaCO3], mg/L (CAS NO - TALK)	5/20/2025	378	508	N/A	387	523	406	903	383	401	418	988	342	311
	5/20/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	398	N/A	N/A	N/A	N/A
Bicarbonate, mg/L (CAS NO - BICARB)	5/20/2025	378	508	N/A	387	523	406	903	383	401	418	988	342	311
	5/20/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	398	N/A	N/A	N/A	N/A
Calcium, mg/L (CAS NO - 7440-70-2)	10/24/2017	69.7	252	100	93.6	186	65	293	73.7	76.5	170	448	226	98.8
	4/9/2018	70.7	328	103	96.5	175	61.6	254	67.9	69.6	174	429	201	104
	8/21/2018	67.5	256	105	85.3	143	50	259	60.6	64.9	128	398	186	120
	3/6/2019	77.1	363	N/A	105	N/A	N/A	306	79.2	76.4	214	N/A	214	114
	4/8/2019	N/A	N/A	111	N/A	168	64.9	N/A	N/A	N/A	N/A	450	N/A	N/A
	9/4/2019	70.2	321	102	97	162	56.8	250	64.8	67.9	172	434	197	99.4
	9/4/2019	N/A	N/A	N/A	N/A	N/A	N/A	242	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2025	62.5	339	N/A	80.3	143	51.8	249	61.6	67.3	177	372	151	93.6
	5/20/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	63	N/A	N/A	N/A	N/A
	5/20/2025	< 5	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Carbonate, mg/L (CAS NO - CARB)	5/20/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
Magnesium, mg/L (CAS NO - 7439-95-4)	10/24/2017	41.6	95.8	44.5	36.7	69.1	35.1	95.5	35.3	40.1	64.9	150	78.8	45.7
	4/9/2018	35.7	140	37.6	31.3	58.7	30.6	87.2	31.1	34.2	66.5	158	65.4	36.9
	8/21/2018	34	103	36.7	28.6	51.4	27	88.6	27.9	32.5	45.8	133	59.6	34.3
	3/6/2019	40.4	114	N/A	36.3	N/A	N/A	107	37.5	38.8	84.2	N/A	77.6	43.5
	4/8/2019	N/A	N/A	40.9	N/A	59.3	32.1	N/A	N/A	N/A	N/A	146	N/A	N/A
	9/4/2019	36.4	110	39.8	34.4	63.2	32.6	101	33.1	37	64.9	147	74.9	37.3
	9/4/2019	N/A	N/A	N/A	N/A	N/A	N/A	89.4	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2025	35.6	122	N/A	31.5	58.3	31.1	104	32.6	37.5	75.3	150	59.7	38.5
	5/20/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	35.4	N/A	N/A	N/A	N/A
Potassium, mg/L (CAS NO - 7440-09-7)	5/20/2025	1.09	0.305*	N/A	0.674	1.24	4.5	2.44	1.66	1.48	13.1	2.05	0.581	0.387*
	5/20/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.36	N/A	N/A	N/A	N/A
Sodium, mg/L (CAS NO - 7440-23-5)	5/20/2025	23.3	21	N/A	12.1	17.8	56.2	37.3	38.1	34.6	29.3	39.6	30.1	16.6
	5/20/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	32.3	N/A	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.

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Appendix D

Statistical Report

STATISTICAL METHODOLOGY

Statistical Method

The approved Groundwater Assessment Plan Update (Doc #79942) proposed the use of parametric and non-parametric prediction limits for statistical evaluation in lieu of the control limits required by Iowa Administrative Code 567-115. Prediction limits are the recommended approach of the "Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities - Unified Guidance," as published by the United States Environmental Protection Agency. Prediction limits were used for the statistical evaluation during this reporting period.

Diagnostic and Exploratory Evaluations and Tests of Assumptions

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

- Time series plots
- Ohio EPA Method for Outliers

Management of Non-Detect Data

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

Management of Outliers

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

Management of Data (ND data < 75%)

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

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

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

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

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

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

Interwell Prediction Limits

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

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

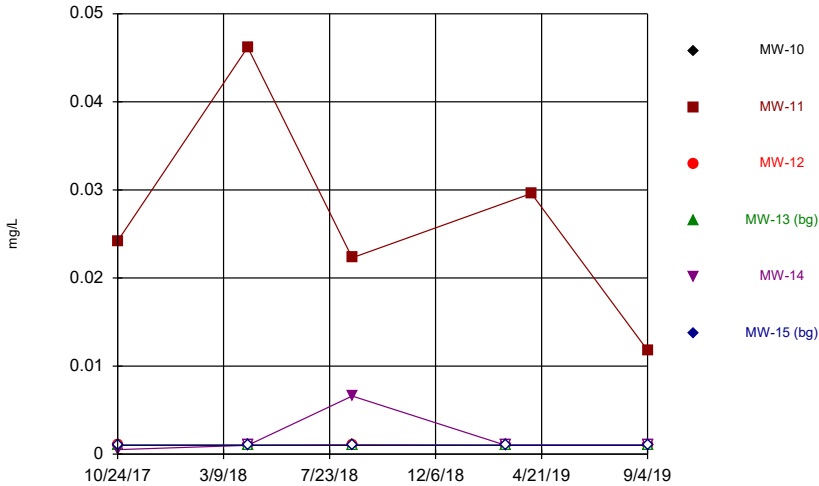
Double Quantification Method

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

Attachment A

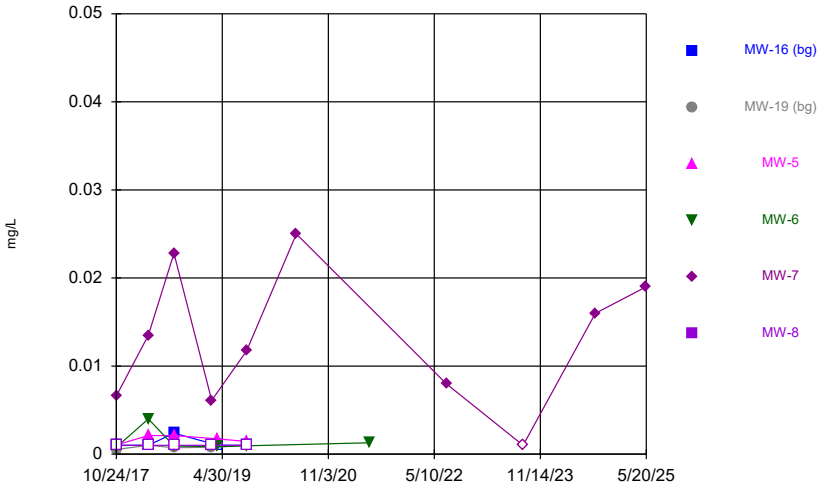
Time Series Graphs

Time Series



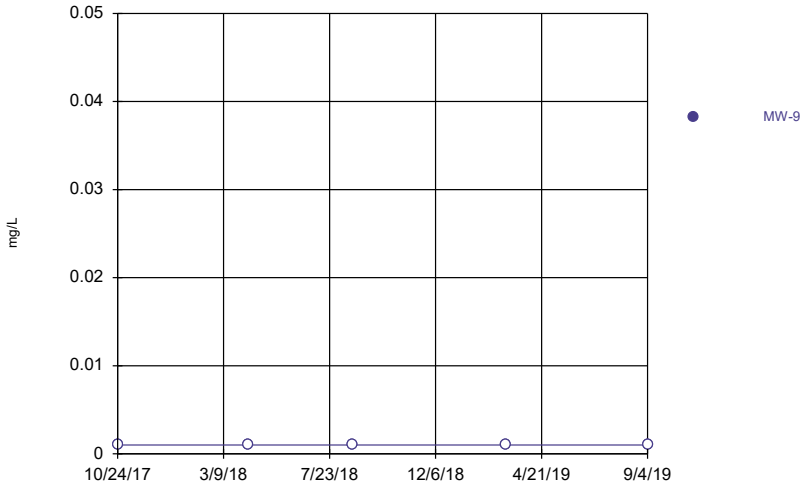
Constituent: Arsenic Analysis Run 7/15/2025 4:53 PM View: 2025AWQR-Time_Series
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP HMSP

Time Series



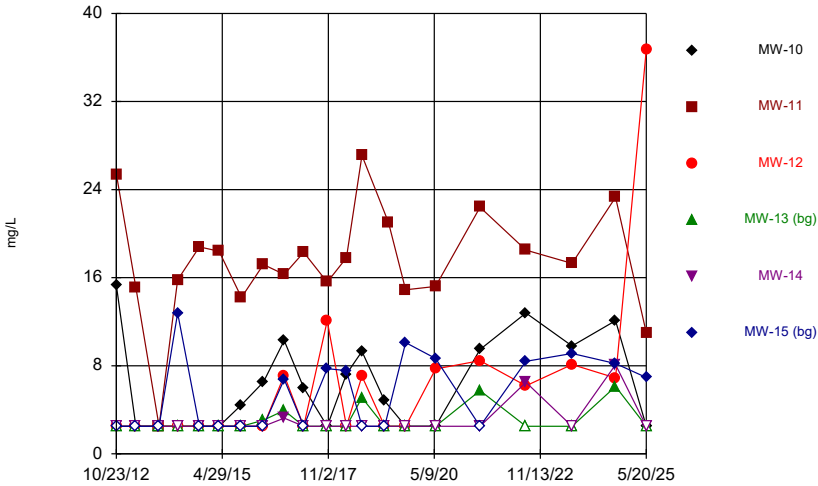
Constituent: Arsenic Analysis Run 7/15/2025 4:53 PM View: 2025AWQR-Time_Series
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP HMSP

Time Series



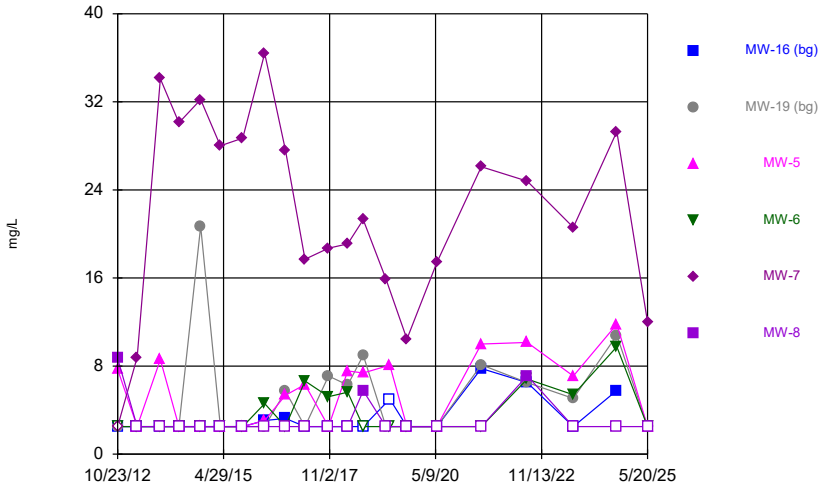
Constituent: Arsenic Analysis Run 7/15/2025 4:53 PM View: 2025AWQR-Time_Series
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP HMSP

Time Series



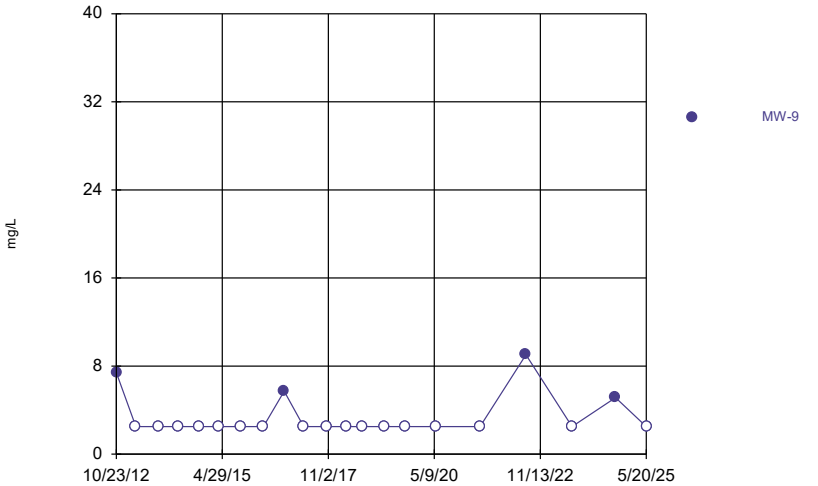
Constituent: Chemical Oxygen Demand Analysis Run 7/15/2025 4:53 PM View: 2025AWQR-Time_Series
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP HMSP

Time Series



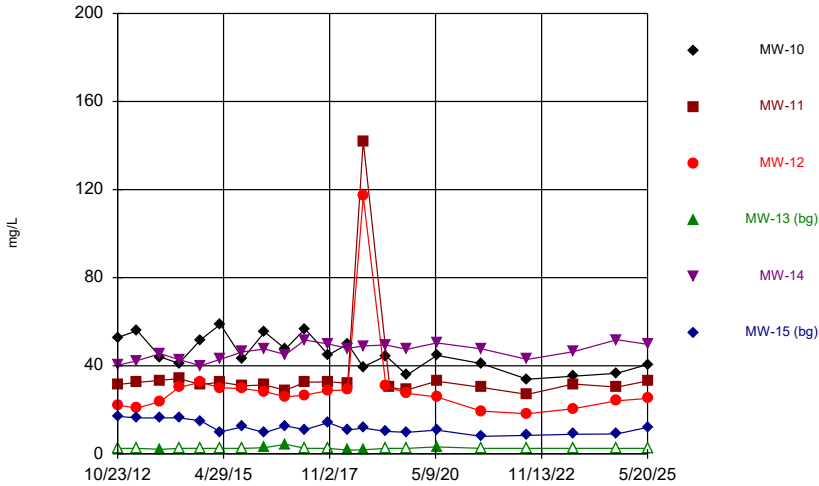
Constituent: Chemical Oxygen Demand Analysis Run 7/15/2025 4:53 PM View: 2025AWQR-Time_Series
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP HMSP

Time Series



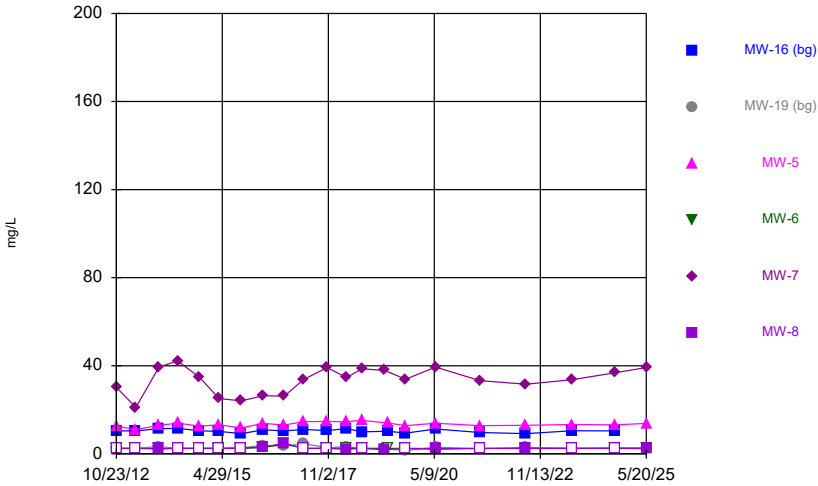
Constituent: Chemical Oxygen Demand Analysis Run 7/15/2025 4:54 PM View: 2025AWQR-Time_Series
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP HMSP

Time Series



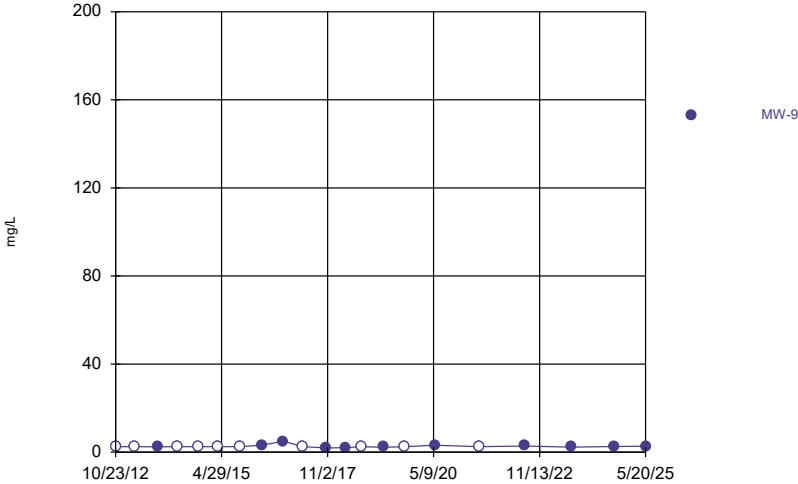
Constituent: Chloride Analysis Run 7/15/2025 4:54 PM View: 2025AWQR-Time_Series
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP HMSP

Time Series



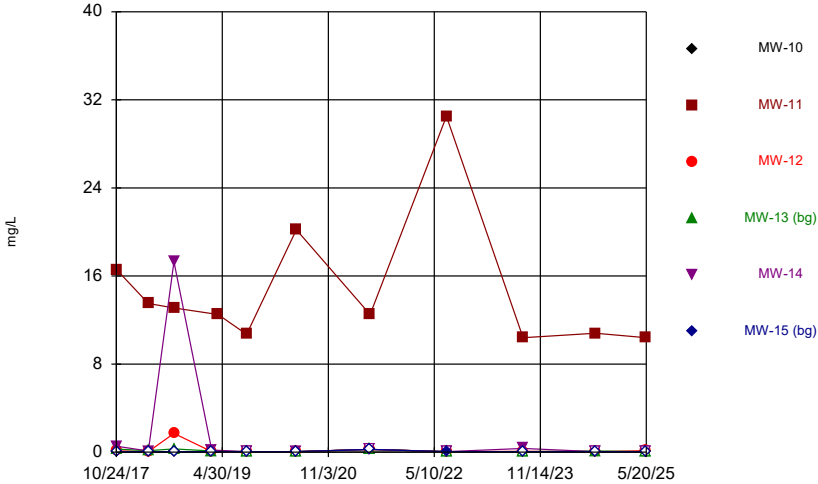
Constituent: Chloride Analysis Run 7/15/2025 4:54 PM View: 2025AWQR-Time_Series
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP HMSP

Time Series



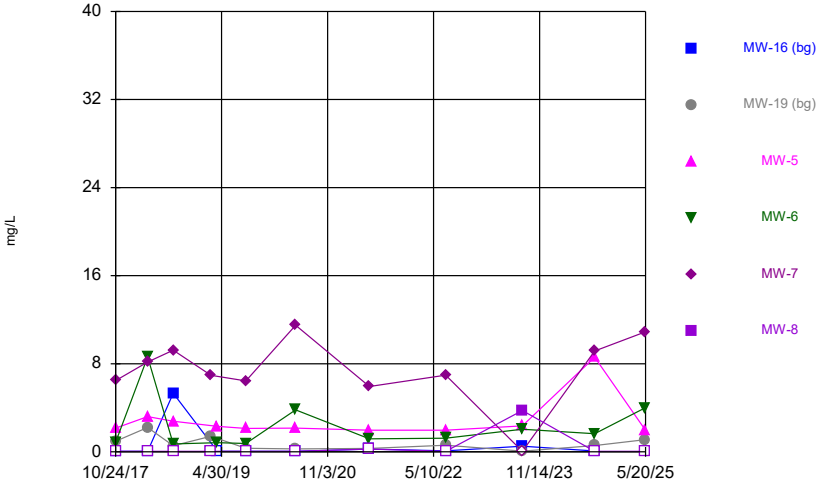
Constituent: Chloride Analysis Run 7/15/2025 4:54 PM View: 2025AWQR-Time_Series
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYM HMSP

Time Series



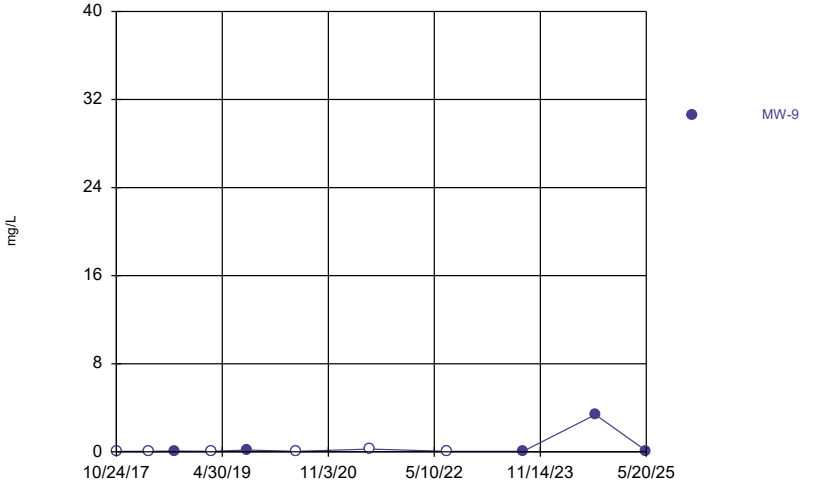
Constituent: Iron Analysis Run 7/15/2025 4:54 PM View: 2025AWQR-Time_Series
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYM HMSP

Time Series



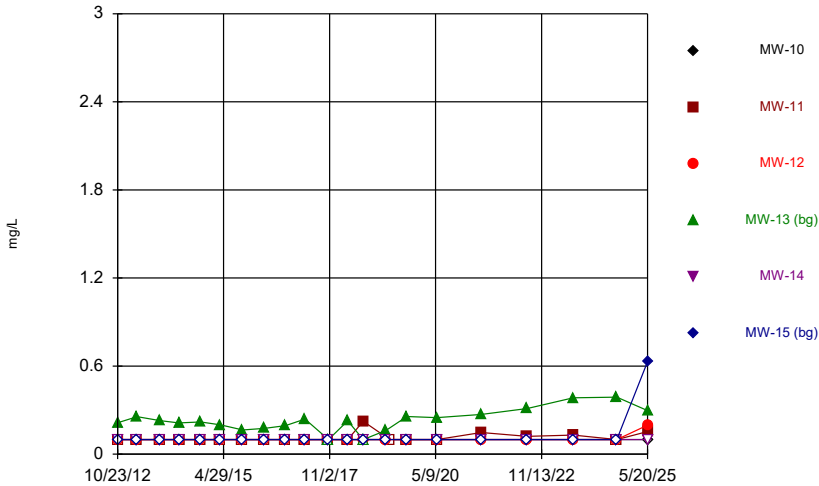
Constituent: Iron Analysis Run 7/15/2025 4:54 PM View: 2025AWQR-Time_Series
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYM HMSP

Time Series



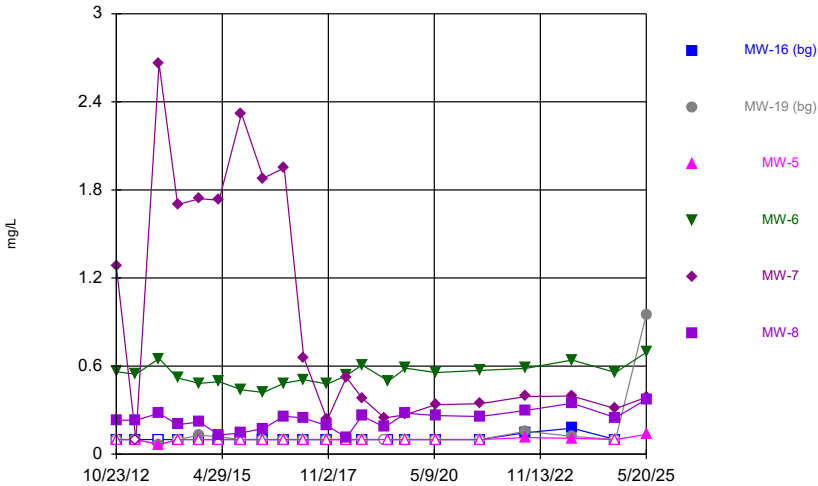
Constituent: Iron Analysis Run 7/15/2025 4:54 PM View: 2025AWQR-Time_Series
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYM HMSP

Time Series



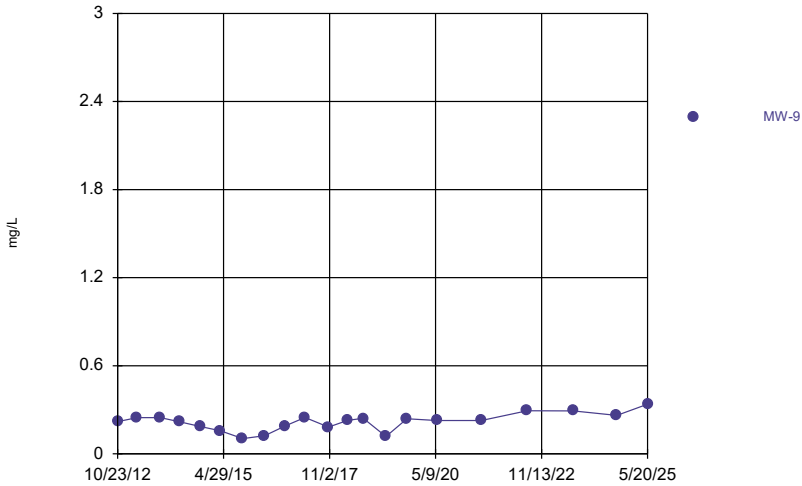
Constituent: Nitrogen, Ammonia Analysis Run 7/15/2025 4:54 PM View: 2025AWQR-Time_Series
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP HMSP

Time Series



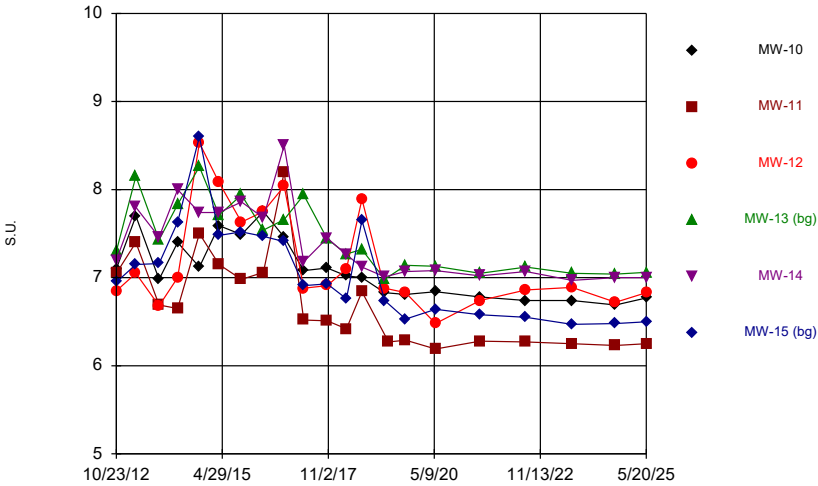
Constituent: Nitrogen, Ammonia Analysis Run 7/15/2025 4:54 PM View: 2025AWQR-Time_Series
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP HMSP

Time Series



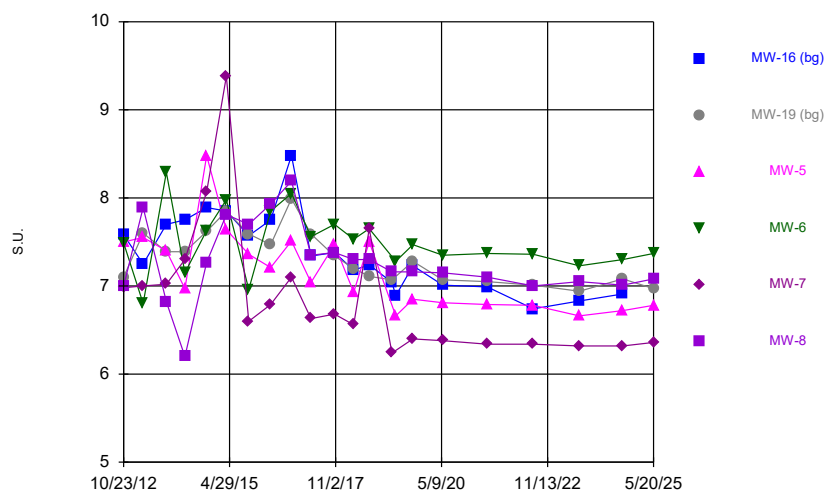
Constituent: Nitrogen, Ammonia Analysis Run 7/15/2025 4:54 PM View: 2025AWQR-Time_Series
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP HMSP

Time Series

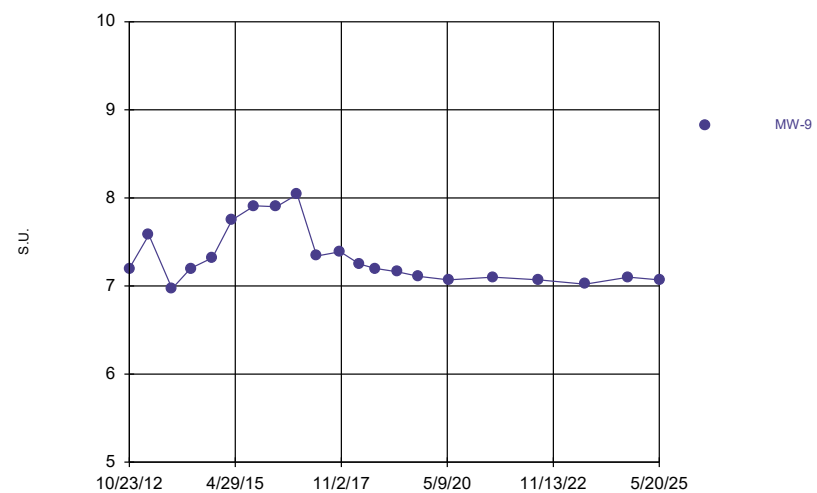


Constituent: pH Analysis Run 7/15/2025 4:54 PM View: 2025AWQR-Time_Series
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP HMSP

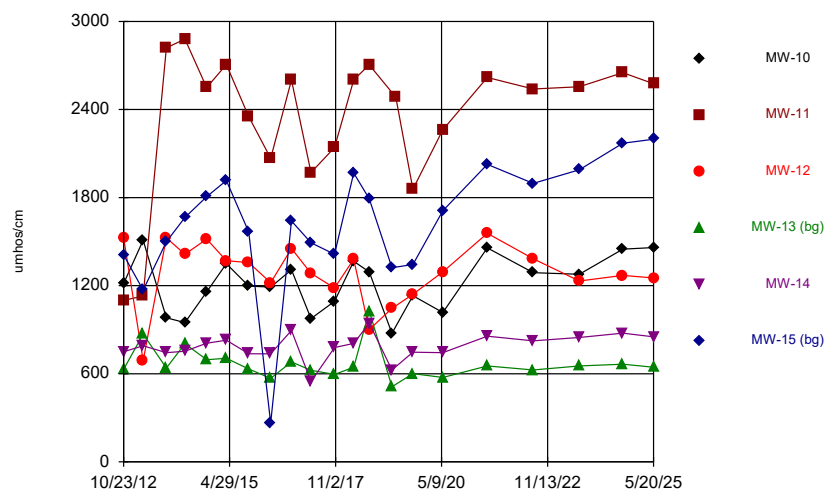
Time Series



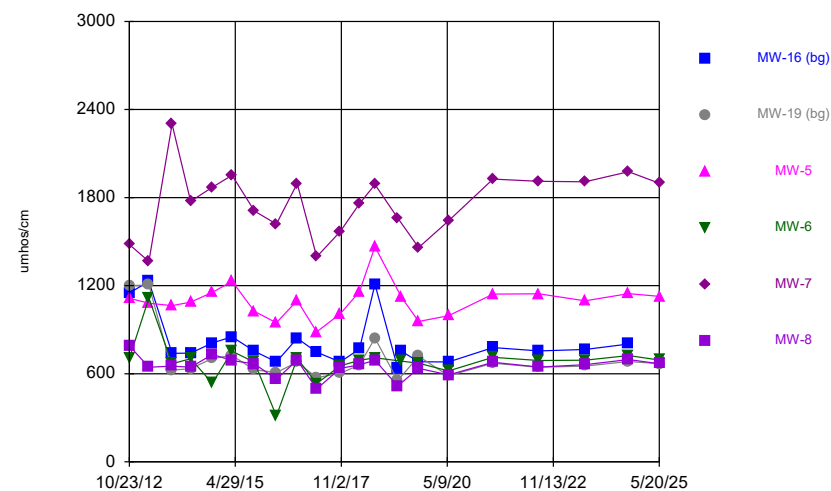
Time Series



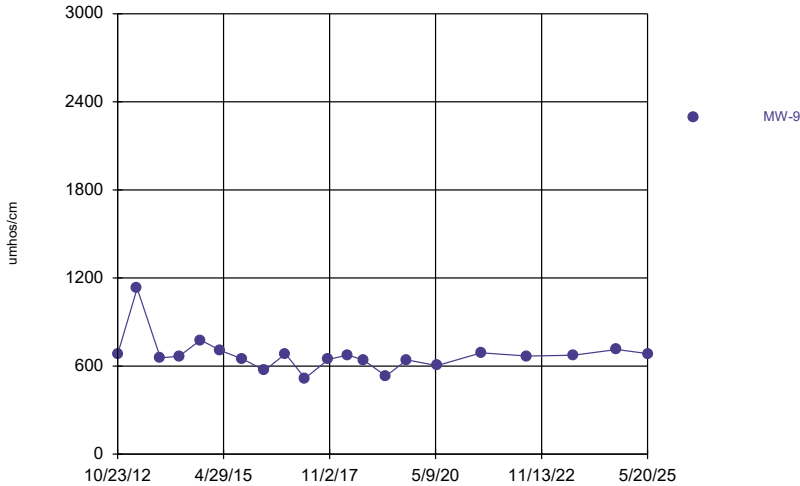
Time Series



Time Series

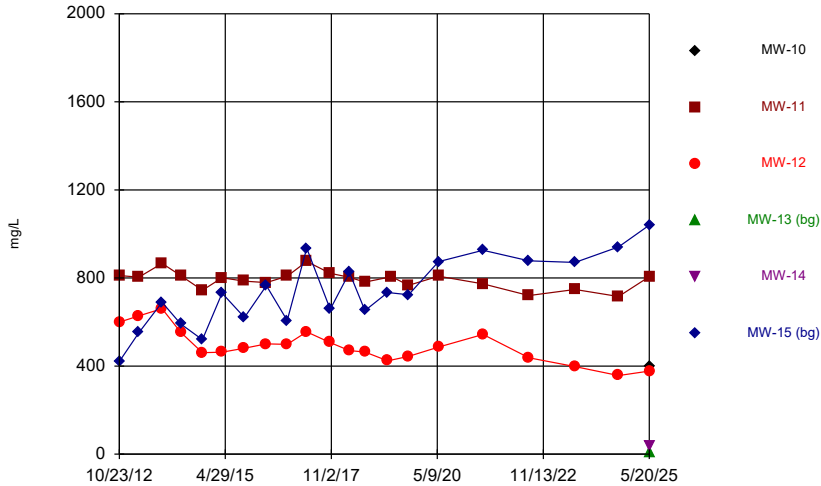


Time Series



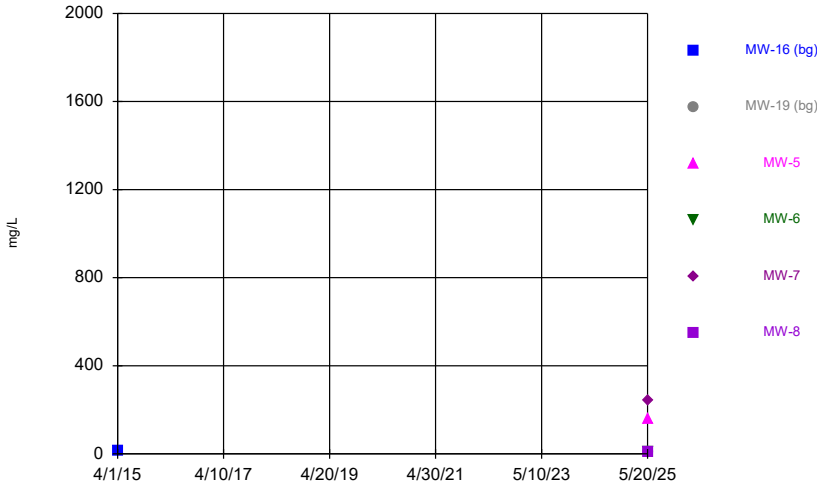
Constituent: Specific Conductance Analysis Run 7/15/2025 4:54 PM View: 2025AWQR-Time_Series
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP HMSP

Time Series



Constituent: Sulfate Analysis Run 7/15/2025 4:54 PM View: 2025AWQR-Time_Series
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP HMSP

Time Series



Constituent: Sulfate Analysis Run 7/15/2025 4:54 PM View: 2025AWQR-Time_Series
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP HMSP

Time Series



Constituent: Sulfate Analysis Run 7/15/2025 4:54 PM View: 2025AWQR-Time_Series
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP HMSP



Attachment B

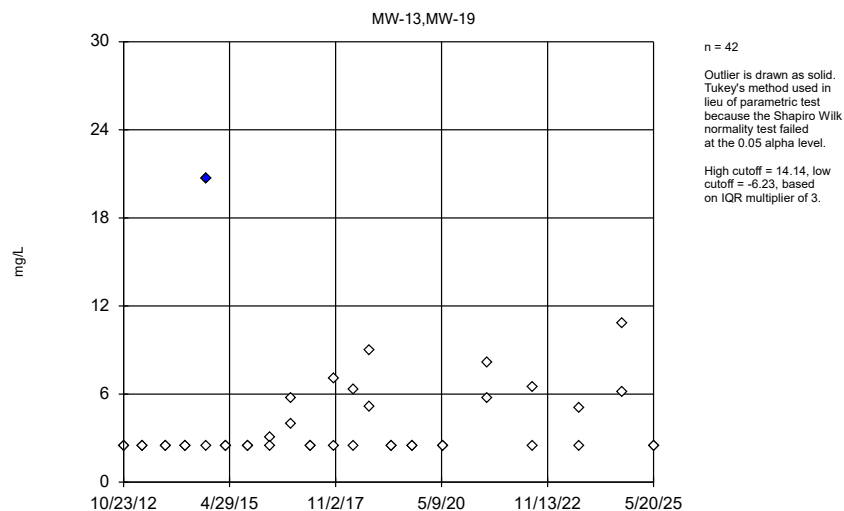
Outliers

Upper BG Outlier Analysis

US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP HMSP Printed 7/15/2025, 5:01 PM

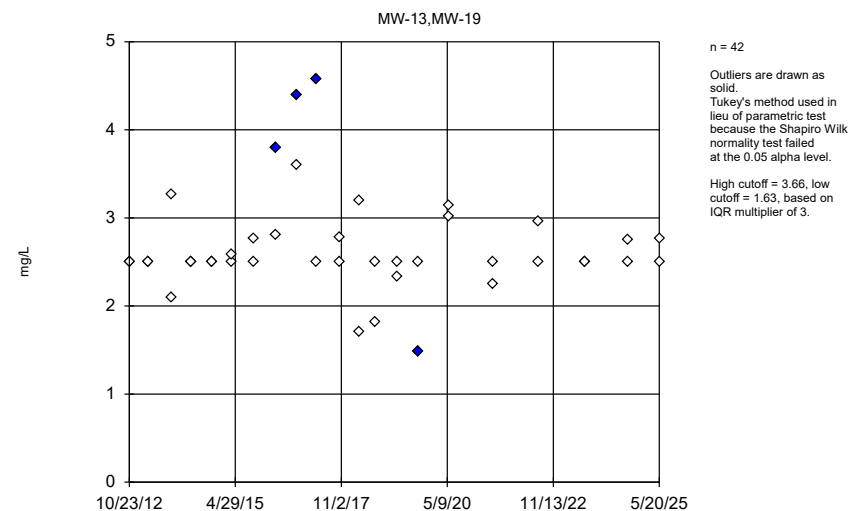
<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Chemical Oxygen Demand (mg/L)	MW-13,MW-19	Yes	20.7	n/a w/combined bg	NP (nrm)/OH	NaN	42	4.125	3.364	unknown	ShapiroWilk
Chloride (mg/L)	MW-13,MW-19	Yes	4.39,3.8,4.58,1.48	n/a w/combined bg	NP (nrm)/OH	NaN	42	2.68	0.5876	unknown	ShapiroWilk
Iron (mg/L)	MW-13,MW-19	No	n/a	n/a w/combined bg	EPA/OH	0.05	22	0.4471	0.5446	ln(x)	ShapiroWilk
Nitrogen, Ammonia (mg/L)	MW-13,MW-19	Yes	0.951	n/a w/combined bg	NP (nrm)/OH	NaN	42	0.1878	0.1463	unknown	ShapiroWilk
pH (S.U.)	MW-13,MW-19	No	n/a	n/a w/combined bg	NP (nrm)/OH	NaN	42	7.383	0.3528	unknown	ShapiroWilk
Specific Conductance (umhos/cm)	MW-13,MW-19	Yes	1205,1200,1027	n/a w/combined bg	EPA/OH	0.05	42	688.5	147	ln(x)	ShapiroWilk

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



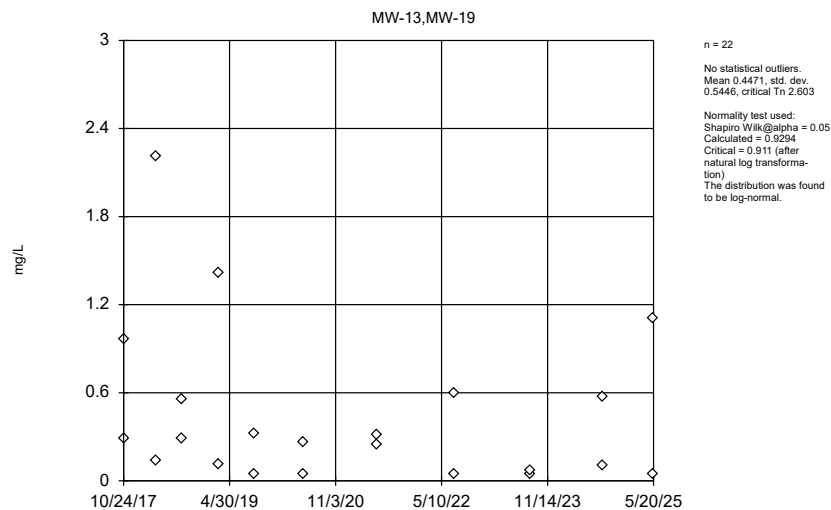
Constituent: Chemical Oxygen Demand Analysis Run 7/15/2025 4:58 PM View: 2025AWQR - Outliers-Up
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYPMHSP

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



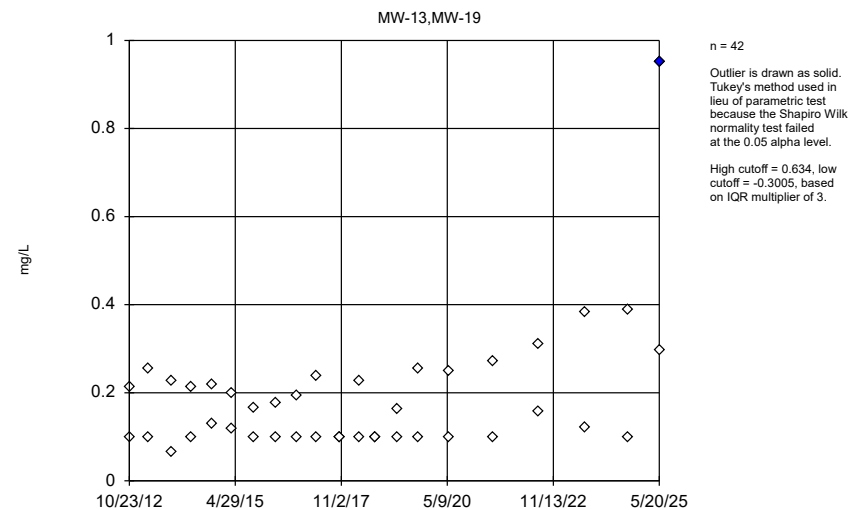
Constituent: Chloride Analysis Run 7/15/2025 4:58 PM View: 2025AWQR - Outliers-Upper
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYPMHSP

EPA 1989 Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background



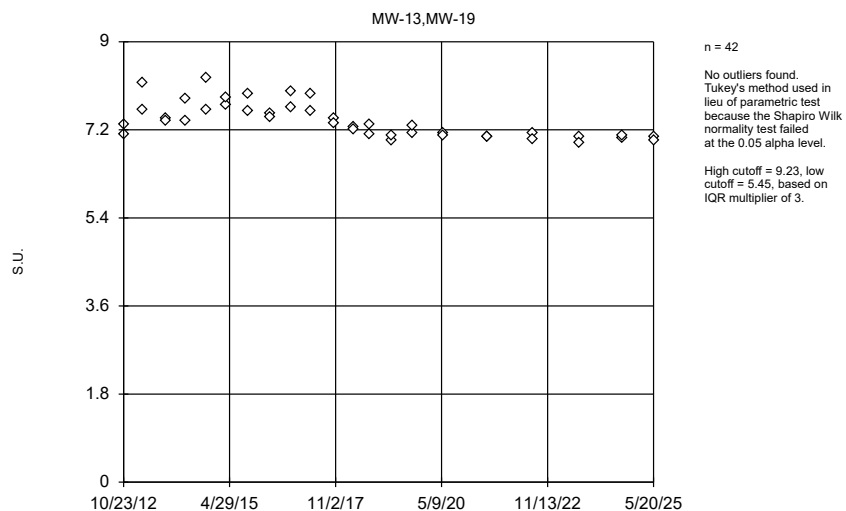
Constituent: Iron Analysis Run 7/15/2025 4:58 PM View: 2025AWQR - Outliers-Upper
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYPMHSP

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



Constituent: Nitrogen, Ammonia Analysis Run 7/15/2025 4:58 PM View: 2025AWQR - Outliers-Upper
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYPMHSP

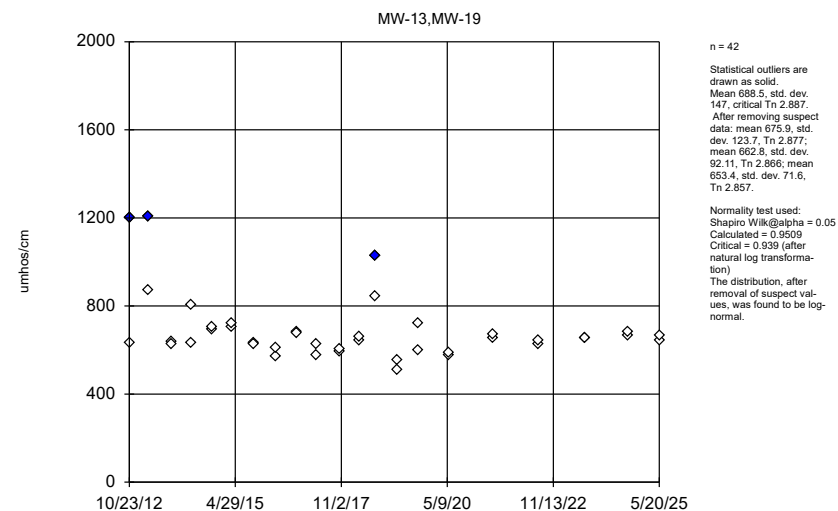
Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background



Constituent: pH Analysis Run 7/15/2025 4:58 PM View: 2025AWQR - Outliers-Upper

US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP HMSP

EPA 1989 Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background



Constituent: Specific Conductance Analysis Run 7/15/2025 4:58 PM View: 2025AWQR - Outliers-Upper

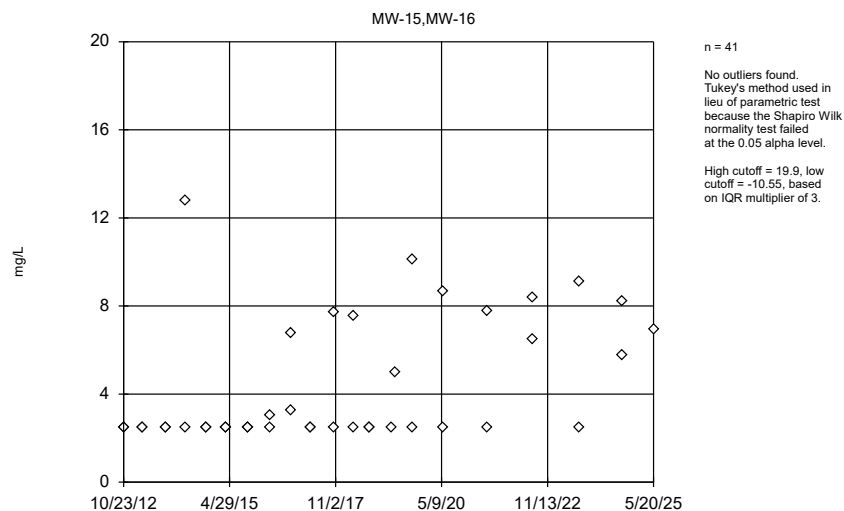
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP HMSP

Water BG Outlier Analysis

US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP HMSP Printed 7/15/2025, 5:07 PM

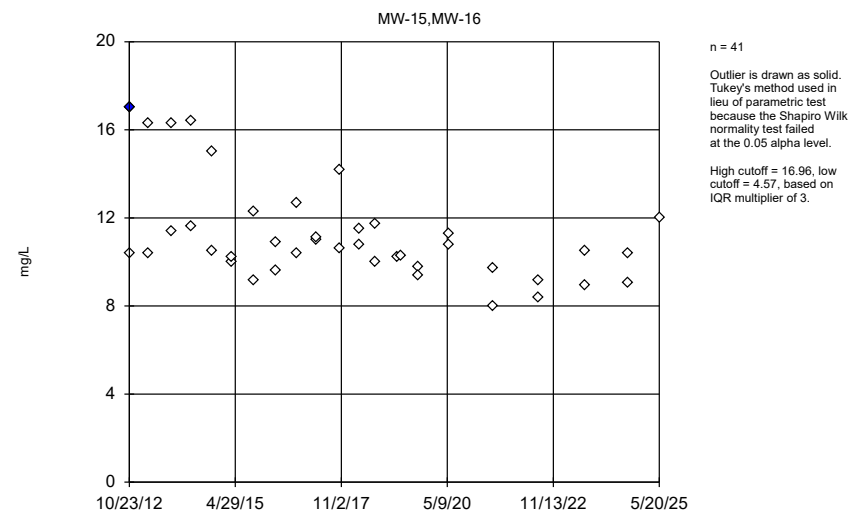
<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Chemical Oxygen Demand (mg/L)	MW-15,MW-16	No	n/a	n/a w/combined bg	NP (nrm)/OH	NaN	41	4.394	2.822	unknown	ShapiroWilk
Chloride (mg/L)	MW-15,MW-16	Yes	17	n/a w/combined bg	NP (nrm)/OH	NaN	41	11.2	2.221	unknown	ShapiroWilk
Iron (mg/L)	MW-15,MW-16	Yes	5.32,0.517,0.25	n/a w/combined bg	OH	NaN	21	0.3455	1.145	n/a	n/a
Nitrogen, Ammonia (mg/L)	MW-15,MW-16	Yes	0.63	n/a w/combined bg	OH	NaN	41	0.1159	0.08345	n/a	n/a
pH (S.U.)	MW-15,MW-16	No	n/a	n/a w/combined bg	EPA/OH	0.05	42	7.207	0.512	normal	ShapiroWilk
Specific Conductance (umhos/cm)	MW-15,MW-16	No	n/a	n/a w/combined bg	NP (nrm)/OH	NaN	42	1222	523.6	unknown	ShapiroWilk

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



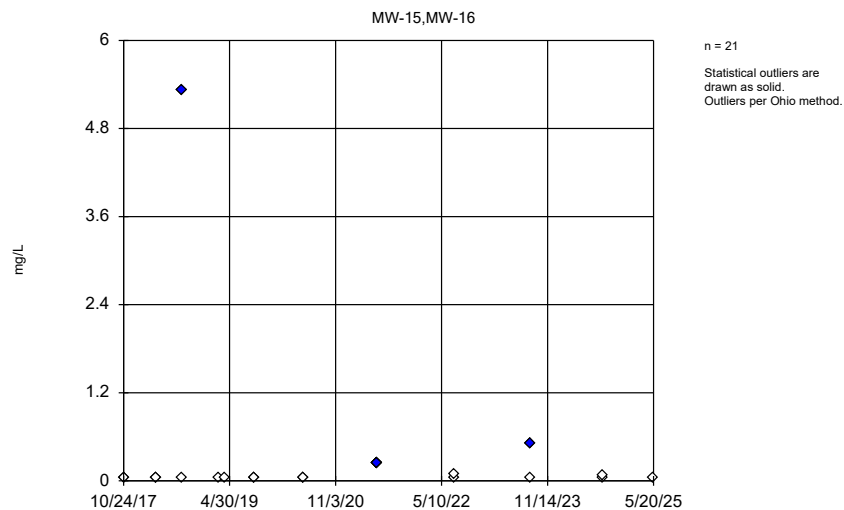
Constituent: Chemical Oxygen Demand Analysis Run 7/15/2025 5:05 PM View: 2025AWQR - Outliers-Wa
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYM HMSP

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



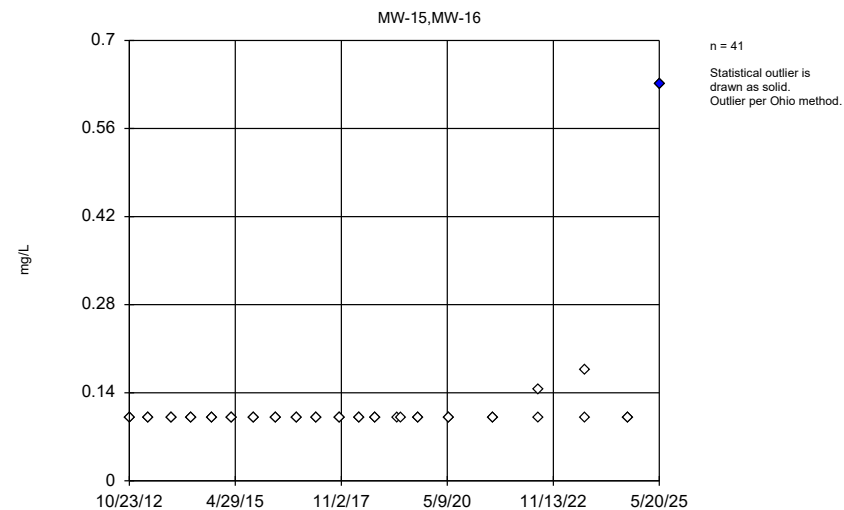
Constituent: Chloride Analysis Run 7/15/2025 5:05 PM View: 2025AWQR - Outliers-Water
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYM HMSP

Ohio EPA 0715 Outlier Algorithm, Pooled Background



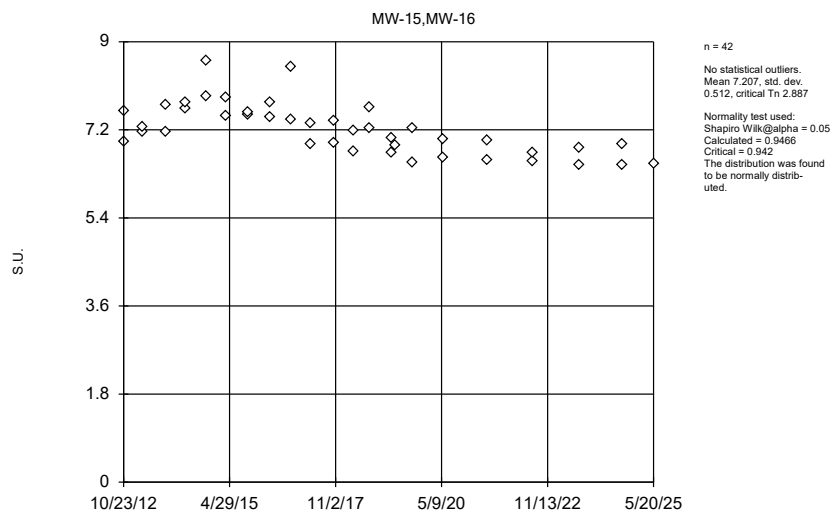
Constituent: Iron Analysis Run 7/15/2025 5:05 PM View: 2025AWQR - Outliers-Water
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYM HMSP

Ohio EPA 0715 Outlier Algorithm, Pooled Background



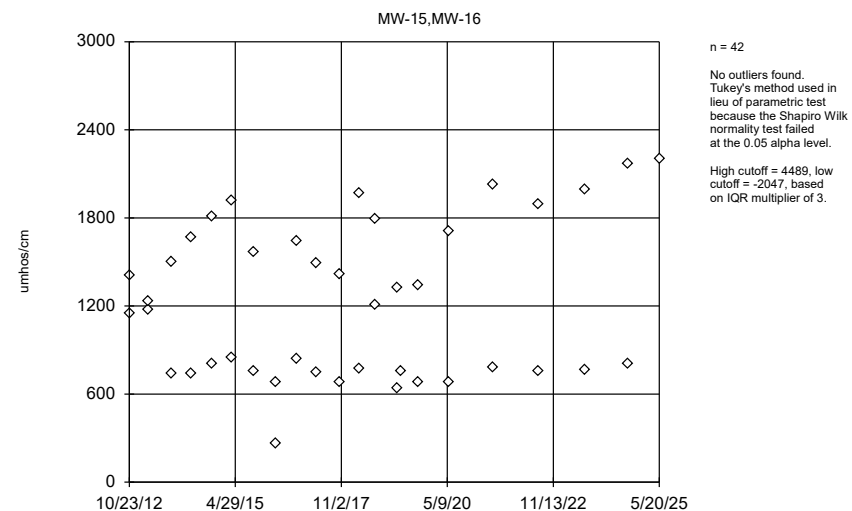
Constituent: Nitrogen, Ammonia Analysis Run 7/15/2025 5:05 PM View: 2025AWQR - Outliers-Water
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYM HMSP

EPA 1989 Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background



Constituent: pH Analysis Run 7/15/2025 5:05 PM View: 2025AWQR - Outliers-Water
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP HMSP

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



Constituent: Specific Conductance Analysis Run 7/15/2025 5:05 PM View: 2025AWQR - Outliers-Water
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP HMSP

Attachment C

Prediction Limits

Uppermost Prediction Limit

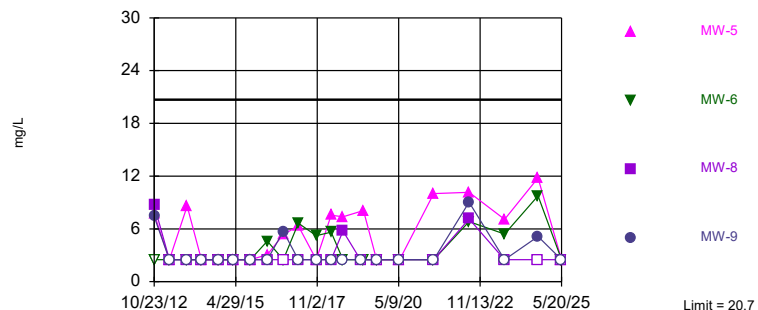
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP HMSP Printed 7/15/2025, 5:12 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Wells	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chemical Oxygen Demand (mg/L)	MW-5	20.7	n/a	5/20/2025	2.5ND	No	42	MW-13,MW-19	n/a	n/a	66.67	n/a	n/a	0.02224	NP Inter (NDs)
Chemical Oxygen Demand (mg/L)	MW-6	20.7	n/a	5/20/2025	2.5ND	No	42	MW-13,MW-19	n/a	n/a	66.67	n/a	n/a	0.02224	NP Inter (NDs)
Chemical Oxygen Demand (mg/L)	MW-8	20.7	n/a	5/20/2025	2.5ND	No	42	MW-13,MW-19	n/a	n/a	66.67	n/a	n/a	0.02224	NP Inter (NDs)
Chemical Oxygen Demand (mg/L)	MW-9	20.7	n/a	5/20/2025	2.5ND	No	42	MW-13,MW-19	n/a	n/a	66.67	n/a	n/a	0.02224	NP Inter (NDs)
Chloride (mg/L)	MW-5	4.58	n/a	5/20/2025	13.8	Yes	42	MW-19,MW-13	n/a	n/a	50	n/a	n/a	0.02224	NP Inter (normality)
Chloride (mg/L)	MW-6	4.58	n/a	5/20/2025	2.5ND	No	42	MW-19,MW-13	n/a	n/a	50	n/a	n/a	0.02224	NP Inter (normality)
Chloride (mg/L)	MW-8	4.58	n/a	5/20/2025	2.38J	No	42	MW-19,MW-13	n/a	n/a	50	n/a	n/a	0.02224	NP Inter (normality)
Chloride (mg/L)	MW-9	4.58	n/a	5/20/2025	2.715J	No	42	MW-19,MW-13	n/a	n/a	50	n/a	n/a	0.02224	NP Inter (normality)
Iron (mg/L)	MW-5	2.093	n/a	5/20/2025	1.95	No	22	MW-13,MW-19	0.5777	0.3376	27.27	Kaplan-Meier	sqrt(x)	0.01	Param Inter
Iron (mg/L)	MW-6	2.093	n/a	5/20/2025	4.01	Yes	22	MW-13,MW-19	0.5777	0.3376	27.27	Kaplan-Meier	sqrt(x)	0.01	Param Inter
Iron (mg/L)	MW-8	2.093	n/a	5/20/2025	0.05ND	No	22	MW-13,MW-19	0.5777	0.3376	27.27	Kaplan-Meier	sqrt(x)	0.01	Param Inter
Iron (mg/L)	MW-9	2.093	n/a	5/20/2025	0.09	No	22	MW-13,MW-19	0.5777	0.3376	27.27	Kaplan-Meier	sqrt(x)	0.01	Param Inter
Nitrogen, Ammonia (mg/L)	MW-5	0.951	n/a	5/20/2025	0.134J	No	42	MW-19,MW-13	n/a	n/a	40.48	n/a	n/a	0.02224	NP Inter (normality)
Nitrogen, Ammonia (mg/L)	MW-6	0.951	n/a	5/20/2025	0.694	No	42	MW-19,MW-13	n/a	n/a	40.48	n/a	n/a	0.02224	NP Inter (normality)
Nitrogen, Ammonia (mg/L)	MW-8	0.951	n/a	5/20/2025	0.373	No	42	MW-19,MW-13	n/a	n/a	40.48	n/a	n/a	0.02224	NP Inter (normality)
Nitrogen, Ammonia (mg/L)	MW-9	0.951	n/a	5/20/2025	0.3385	No	42	MW-19,MW-13	n/a	n/a	40.48	n/a	n/a	0.02224	NP Inter (normality)
pH (S.U.)	MW-5	8.26	6.94	5/20/2025	6.78	Yes	42	MW-19,MW-13	n/a	n/a	0	n/a	n/a	0.04449	NP Inter (normality)
pH (S.U.)	MW-6	8.26	6.94	5/20/2025	7.37	No	42	MW-19,MW-13	n/a	n/a	0	n/a	n/a	0.04449	NP Inter (normality)
pH (S.U.)	MW-8	8.26	6.94	5/20/2025	7.08	No	42	MW-19,MW-13	n/a	n/a	0	n/a	n/a	0.04449	NP Inter (normality)
pH (S.U.)	MW-9	8.26	6.94	5/20/2025	7.07	No	42	MW-19,MW-13	n/a	n/a	0	n/a	n/a	0.04449	NP Inter (normality)
Specific Conductance (umhos/cm)	MW-5	1205	n/a	5/20/2025	1127	No	42	MW-13,MW-19	n/a	n/a	0	n/a	n/a	0.02224	NP Inter (normality)
Specific Conductance (umhos/cm)	MW-6	1205	n/a	5/20/2025	694	No	42	MW-13,MW-19	n/a	n/a	0	n/a	n/a	0.02224	NP Inter (normality)
Specific Conductance (umhos/cm)	MW-8	1205	n/a	5/20/2025	668.6	No	42	MW-13,MW-19	n/a	n/a	0	n/a	n/a	0.02224	NP Inter (normality)
Specific Conductance (umhos/cm)	MW-9	1205	n/a	5/20/2025	685.1	No	42	MW-13,MW-19	n/a	n/a	0	n/a	n/a	0.02224	NP Inter (normality)

Within Limit

Prediction Limit

Interwell Non-parametric



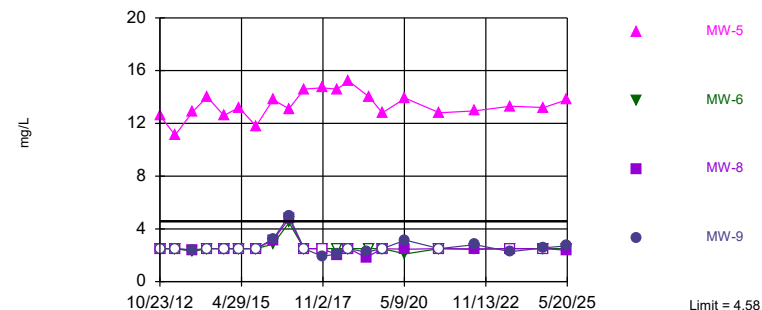
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 42 background values. 66.67% NDs. Report alpha = 0.1064. Individual comparison alpha = 0.02224. Based on user-set k of 5 (assumes 1 future value).

Constituent: Chemical Oxygen Demand Analysis Run 7/15/2025 5:10 PM View: 2025AWQR - PL - Upper
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP HMSP

Exceeds Limit: MW-5

Prediction Limit

Interwell Non-parametric



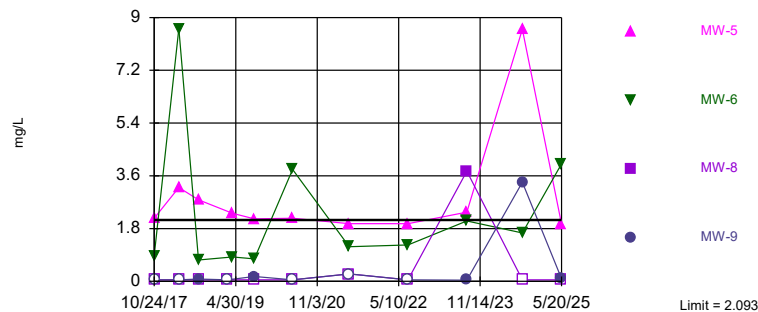
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 42 background values. 50% NDs. Report alpha = 0.1064. Individual comparison alpha = 0.02224. Based on user-set k of 5 (assumes 1 future value).

Constituent: Chloride Analysis Run 7/15/2025 5:10 PM View: 2025AWQR - PL - Upper
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP HMSP

Exceeds Limit: MW-6

Prediction Limit

Interwell Parametric



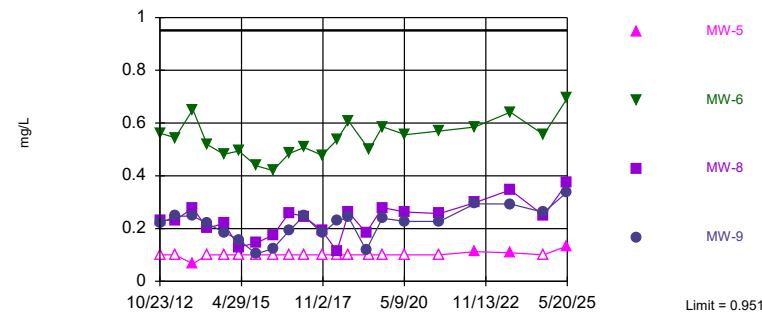
Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.5777, Std. Dev.=0.3376, n=22, 27.27% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8788, critical = 0.878. Report alpha = 0.04901. Individual comparison alpha = 0.01. Based on user-set k of 5 (assumes 1 future value).

Constituent: Iron Analysis Run 7/15/2025 5:10 PM View: 2025AWQR - PL - Upper
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP HMSP

Within Limit

Prediction Limit

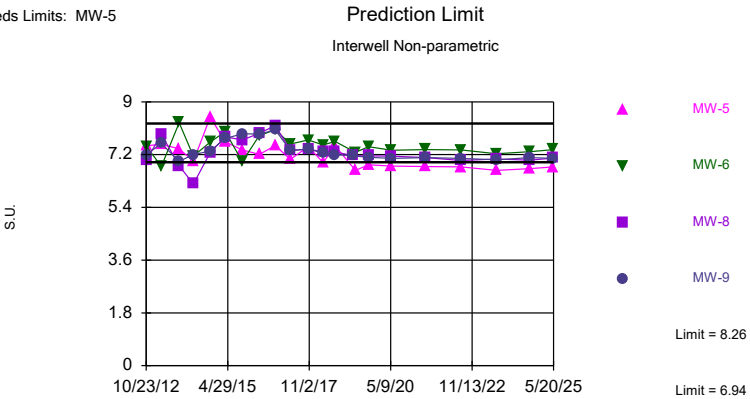
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 42 background values. 40.48% NDs. Report alpha = 0.1064. Individual comparison alpha = 0.02224. Based on user-set k of 5 (assumes 1 future value).

Constituent: Nitrogen, Ammonia Analysis Run 7/15/2025 5:10 PM View: 2025AWQR - PL - Upper
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP HMSP

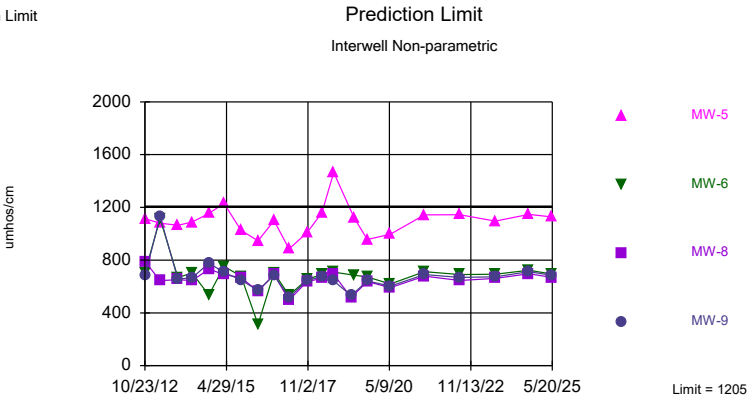
Exceeds Limits: MW-5



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 42 background values. Report alpha = 0.2128. Individual comparison alpha = 0.04449. Based on user-set k of 5 (assumes 1 future value).

Constituent: pH Analysis Run 7/15/2025 5:10 PM View: 2025AWQR - PL - Upper
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP HMSP

Within Limit



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 42 background values. Report alpha = 0.1064. Individual comparison alpha = 0.02224. Based on user-set k of 5 (assumes 1 future value).

Constituent: Specific Conductance Analysis Run 7/15/2025 5:10 PM View: 2025AWQR - PL - Upper
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP HMSP

WaterTable Prediction Limit

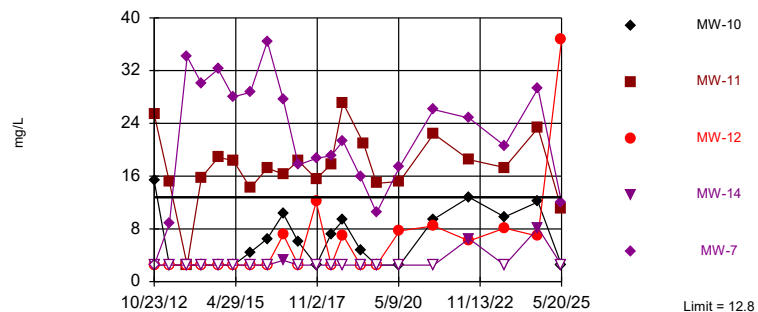
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP HMSP Printed 7/15/2025, 5:15 PM

<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>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Chemical Oxygen Demand (mg/L)	MW-10	12.8	n/a	5/20/2025	2.5ND	No	41	MW-15,MW-16	n/a	n/a	63.41	n/a	n/a	0.02275	NP Inter (NDs)
Chemical Oxygen Demand (mg/L)	MW-11	12.8	n/a	5/20/2025	11	No	41	MW-15,MW-16	n/a	n/a	63.41	n/a	n/a	0.02275	NP Inter (NDs)
Chemical Oxygen Demand (mg/L)	MW-12	12.8	n/a	5/20/2025	36.7	Yes	41	MW-15,MW-16	n/a	n/a	63.41	n/a	n/a	0.02275	NP Inter (NDs)
Chemical Oxygen Demand (mg/L)	MW-14	12.8	n/a	5/20/2025	2.5ND	No	41	MW-15,MW-16	n/a	n/a	63.41	n/a	n/a	0.02275	NP Inter (NDs)
Chemical Oxygen Demand (mg/L)	MW-7	12.8	n/a	5/20/2025	12	No	41	MW-15,MW-16	n/a	n/a	63.41	n/a	n/a	0.02275	NP Inter (NDs)
Chloride (mg/L)	MW-10	17	n/a	5/20/2025	40.6	Yes	41	MW-15,MW-16	n/a	n/a	0	n/a	n/a	0.02275	NP Inter (normality)
Chloride (mg/L)	MW-11	17	n/a	5/20/2025	33.1	Yes	41	MW-15,MW-16	n/a	n/a	0	n/a	n/a	0.02275	NP Inter (normality)
Chloride (mg/L)	MW-12	17	n/a	5/20/2025	25.2	Yes	41	MW-15,MW-16	n/a	n/a	0	n/a	n/a	0.02275	NP Inter (normality)
Chloride (mg/L)	MW-14	17	n/a	5/20/2025	49.7	Yes	41	MW-15,MW-16	n/a	n/a	0	n/a	n/a	0.02275	NP Inter (normality)
Chloride (mg/L)	MW-7	17	n/a	5/20/2025	39.2	Yes	41	MW-15,MW-16	n/a	n/a	0	n/a	n/a	0.02275	NP Inter (normality)
Iron (mg/L)	MW-10	5.32	n/a	5/20/2025	0.05ND	No	21	MW-15,MW-16	n/a	n/a	76.19	n/a	n/a	0.04182	NP Inter (NDs)
Iron (mg/L)	MW-11	5.32	n/a	5/20/2025	10.4	Yes	21	MW-15,MW-16	n/a	n/a	76.19	n/a	n/a	0.04182	NP Inter (NDs)
Iron (mg/L)	MW-12	5.32	n/a	5/20/2025	0.137	No	21	MW-15,MW-16	n/a	n/a	76.19	n/a	n/a	0.04182	NP Inter (NDs)
Iron (mg/L)	MW-14	5.32	n/a	5/20/2025	0.05ND	No	21	MW-15,MW-16	n/a	n/a	76.19	n/a	n/a	0.04182	NP Inter (NDs)
Iron (mg/L)	MW-7	5.32	n/a	5/20/2025	10.9	Yes	21	MW-15,MW-16	n/a	n/a	76.19	n/a	n/a	0.04182	NP Inter (NDs)
Nitrogen, Ammonia (mg/L)	MW-10	0.63	n/a	5/20/2025	0.1ND	No	41	MW-15,MW-16	n/a	n/a	92.68	n/a	n/a	0.02275	NP Inter (NDs)
Nitrogen, Ammonia (mg/L)	MW-11	0.63	n/a	5/20/2025	0.154J	No	41	MW-15,MW-16	n/a	n/a	92.68	n/a	n/a	0.02275	NP Inter (NDs)
Nitrogen, Ammonia (mg/L)	MW-12	0.63	n/a	5/20/2025	0.198J	No	41	MW-15,MW-16	n/a	n/a	92.68	n/a	n/a	0.02275	NP Inter (NDs)
Nitrogen, Ammonia (mg/L)	MW-14	0.63	n/a	5/20/2025	0.1ND	No	41	MW-15,MW-16	n/a	n/a	92.68	n/a	n/a	0.02275	NP Inter (NDs)
Nitrogen, Ammonia (mg/L)	MW-7	0.63	n/a	5/20/2025	0.387	No	41	MW-15,MW-16	n/a	n/a	92.68	n/a	n/a	0.02275	NP Inter (NDs)
pH (S.U.)	MW-10	8.607	5.808	5/20/2025	6.77	No	42	MW-15,MW-16	7.207	0.512	0	None	No	0.005	Param Inter
pH (S.U.)	MW-11	8.607	5.808	5/20/2025	6.25	No	42	MW-15,MW-16	7.207	0.512	0	None	No	0.005	Param Inter
pH (S.U.)	MW-12	8.607	5.808	5/20/2025	6.83	No	42	MW-15,MW-16	7.207	0.512	0	None	No	0.005	Param Inter
pH (S.U.)	MW-14	8.607	5.808	5/20/2025	7	No	42	MW-15,MW-16	7.207	0.512	0	None	No	0.005	Param Inter
pH (S.U.)	MW-7	8.607	5.808	5/20/2025	6.36	No	42	MW-15,MW-16	7.207	0.512	0	None	No	0.005	Param Inter
Specific Conductance (umhos/cm)	MW-10	2198	n/a	5/20/2025	1460	No	42	MW-15,MW-16	n/a	n/a	0	n/a	n/a	0.02224	NP Inter (normality)
Specific Conductance (umhos/cm)	MW-11	2198	n/a	5/20/2025	2576	Yes	42	MW-15,MW-16	n/a	n/a	0	n/a	n/a	0.02224	NP Inter (normality)
Specific Conductance (umhos/cm)	MW-12	2198	n/a	5/20/2025	1252	No	42	MW-15,MW-16	n/a	n/a	0	n/a	n/a	0.02224	NP Inter (normality)
Specific Conductance (umhos/cm)	MW-14	2198	n/a	5/20/2025	851.6	No	42	MW-15,MW-16	n/a	n/a	0	n/a	n/a	0.02224	NP Inter (normality)
Specific Conductance (umhos/cm)	MW-7	2198	n/a	5/20/2025	1898	No	42	MW-15,MW-16	n/a	n/a	0	n/a	n/a	0.02224	NP Inter (normality)

Exceeds Limit: MW-12

Prediction Limit

Interwell Non-parametric



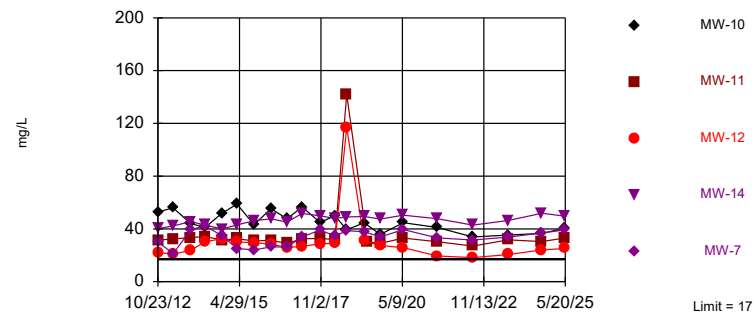
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 41 background values. 63.41% NDs. Report alpha = 0.1087. Individual comparison alpha = 0.02275. Most recent point for each compliance well compared to limit.

Constituent: Chemical Oxygen Demand Analysis Run 7/15/2025 5:14 PM View: 2025AWQR - PL - Water
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP HMSP

Exceeds Limit: MW-10, MW-11, MW-12,
MW-14, MW-7

Prediction Limit

Interwell Non-parametric



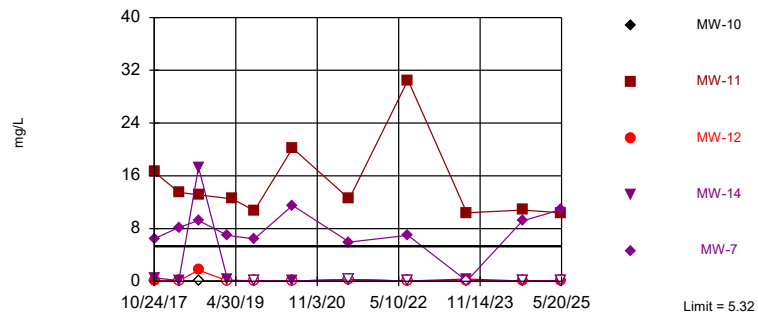
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 41 background values. Report alpha = 0.1087. Individual comparison alpha = 0.02275. Most recent point for each compliance well compared to limit.

Constituent: Chloride Analysis Run 7/15/2025 5:14 PM View: 2025AWQR - PL - Water
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP HMSP

Exceeds Limit: MW-11, MW-7

Prediction Limit

Interwell Non-parametric



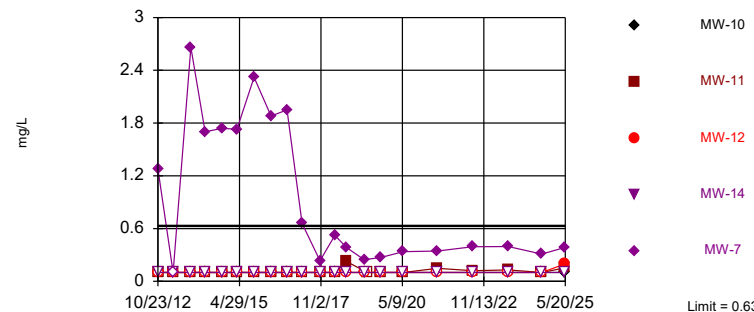
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 76.19% NDs. Report alpha = 0.1923. Individual comparison alpha = 0.04182. Most recent point for each compliance well compared to limit.

Constituent: Iron Analysis Run 7/15/2025 5:14 PM View: 2025AWQR - PL - Water
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP HMSP

Within Limit

Prediction Limit

Interwell Non-parametric



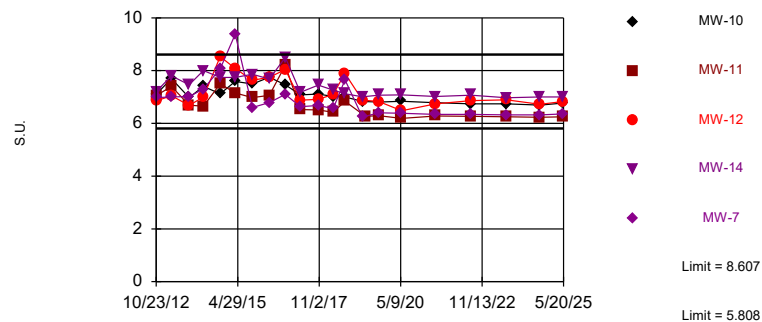
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 41 background values. 92.68% NDs. Report alpha = 0.1087. Individual comparison alpha = 0.02275. Most recent point for each compliance well compared to limit.

Constituent: Nitrogen, Ammonia Analysis Run 7/15/2025 5:14 PM View: 2025AWQR - PL - Water
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP HMSP

Within Limits

Prediction Limit

Interwell Parametric



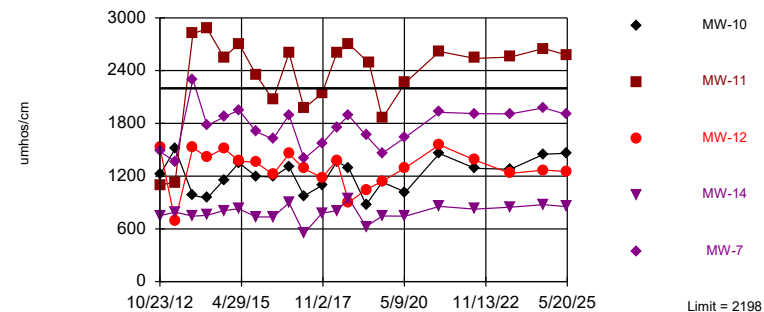
Background Data Summary: Mean=7.207, Std. Dev.=0.512, n=42. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9466, critical = 0.922. Report alpha = 0.04901. Individual comparison alpha = 0.005. Most recent point for each compliance well compared to limit.

Constituent: pH Analysis Run 7/15/2025 5:14 PM View: 2025AWQR - PL - Water
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP HMSP

Exceeds Limit: MW-11

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 42 background values. Report alpha = 0.1064. Individual comparison alpha = 0.02224. Most recent point for each compliance well compared to limit.

Constituent: Specific Conductance Analysis Run 7/15/2025 5:14 PM View: 2025AWQR - PL - Water
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP HMSP

Attachment D

Trend Test ($\alpha=0.01$)

Trend Test

US Gypsum Sperry Landfill

Client: SCS Engineers

Data: USGYP-2025_AWQR-AM

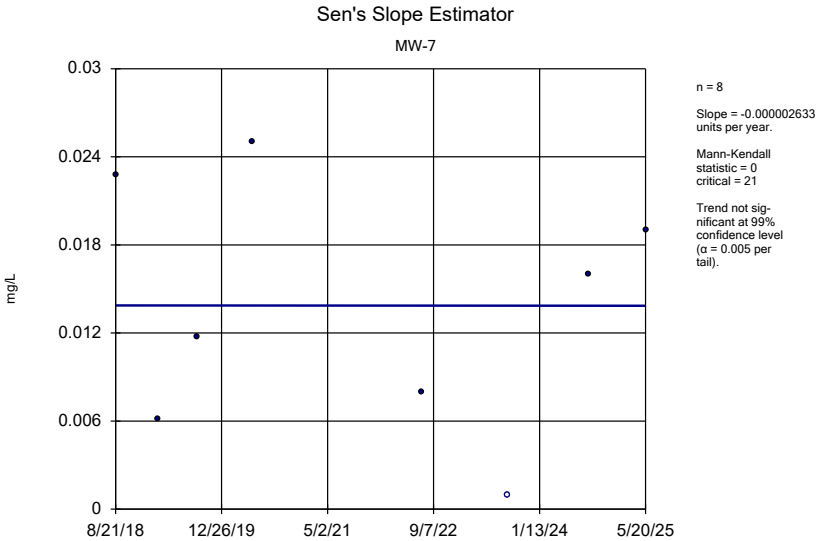
Printed 7/17/2025, 3:09 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
Arsenic (mg/L)	MW-7	-0.000002633	0	21	No	8	12.5	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-5	0.3422	5	21	No	8	37.5	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-6	0.3327	10	21	No	8	62.5	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-7	1.149	8	21	No	8	0	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-8	0	1	21	No	8	87.5	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-9	0	5	21	No	8	75	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-10	0.9688	7	21	No	8	37.5	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-11	-0.2016	0	21	No	8	0	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-12	1.275	15	21	No	8	25	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-13 (bg)	0	5	21	No	8	75	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-14	0	7	21	No	8	75	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-15 (bg)	-0.102	-3	-21	No	8	25	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-16 (bg)	0.07326	6	21	No	8	62.5	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-19 (bg)	0.6117	8	21	No	8	50	0.01	NP
Chloride (mg/L)	MW-5	0.02627	1	21	No	8	0	0.01	NP
Chloride (mg/L)	MW-7	0.08466	0	21	No	8	0	0.01	NP
Chloride (mg/L)	MW-8	0	4	21	No	8	50	0.01	NP
Chloride (mg/L)	MW-9	0.02814	7	21	No	8	25	0.01	NP
Chloride (mg/L)	MW-10	-0.6467	-6	-21	No	8	0	0.01	NP
Chloride (mg/L)	MW-11	0.314	10	21	No	8	0	0.01	NP
Chloride (mg/L)	MW-12	-0.993	-10	-21	No	8	0	0.01	NP
Chloride (mg/L)	MW-14	0.08083	2	21	No	8	0	0.01	NP
Chloride (mg/L)	MW-15 (bg)	0.1732	2	21	No	8	0	0.01	NP
Chloride (mg/L)	MW-16 (bg)	0.03221	2	21	No	8	0	0.01	NP
Chloride (mg/L)	MW-19 (bg)	0.09548	8	21	No	8	12.5	0.01	NP
Iron (mg/L)	MW-5	-0.004524	-3	-21	No	8	0	0.01	NP
Iron (mg/L)	MW-6	0.1853	16	21	No	8	0	0.01	NP
Iron (mg/L)	MW-7	0.2944	4	21	No	8	12.5	0.01	NP
Iron (mg/L)	MW-8	0	3	21	No	8	87.5	0.01	NP
Iron (mg/L)	MW-9	0.00322	3	21	No	8	50	0.01	NP
Iron (mg/L)	MW-11	-0.3292	-8	-21	No	8	0	0.01	NP
Iron (mg/L)	MW-12	0.001583	12	21	No	8	62.5	0.01	NP
Iron (mg/L)	MW-13 (bg)	0	-4	-21	No	8	75	0.01	NP
Iron (mg/L)	MW-14	0	-4	-21	No	8	62.5	0.01	NP
Iron (mg/L)	MW-16 (bg)	0.002903	3	21	No	8	50	0.01	NP
Iron (mg/L)	MW-19 (bg)	0.02191	0	21	No	8	0	0.01	NP
Nitrogen, Ammonia (mg/L)	MW-6	0.02257	13	21	No	8	0	0.01	NP
Nitrogen, Ammonia (mg/L)	MW-7	0.0216	16	21	No	8	0	0.01	NP
Nitrogen, Ammonia (mg/L)	MW-8	0.01954	12	21	No	8	0	0.01	NP
Nitrogen, Ammonia (mg/L)	MW-9	0.02133	17	21	No	8	0	0.01	NP
Nitrogen, Ammonia (mg/L)	MW-13 (bg)	0.03065	20	21	No	8	0	0.01	NP
Nitrogen, Ammonia (mg/L)	MW-15 (bg)	0	7	21	No	8	87.5	0.01	NP
Nitrogen, Ammonia (mg/L)	MW-19 (bg)	0.005018	12	21	No	8	62.5	0.01	NP
pH (S.U.)	MW-5	-0.01071	-8	-21	No	8	0	0.01	NP
pH (S.U.)	MW-6	-0.004585	-1	-21	No	8	0	0.01	NP
pH (S.U.)	MW-7	-0.005105	-4	-21	No	8	0	0.01	NP
pH (S.U.)	MW-8	-0.02562	-17	-21	No	8	0	0.01	NP
pH (S.U.)	MW-9	-0.01248	-14	-21	No	8	0	0.01	NP
pH (S.U.)	MW-10	-0.02116	-17	-21	No	8	0	0.01	NP
pH (S.U.)	MW-11	-0.007001	-10	-21	No	8	0	0.01	NP

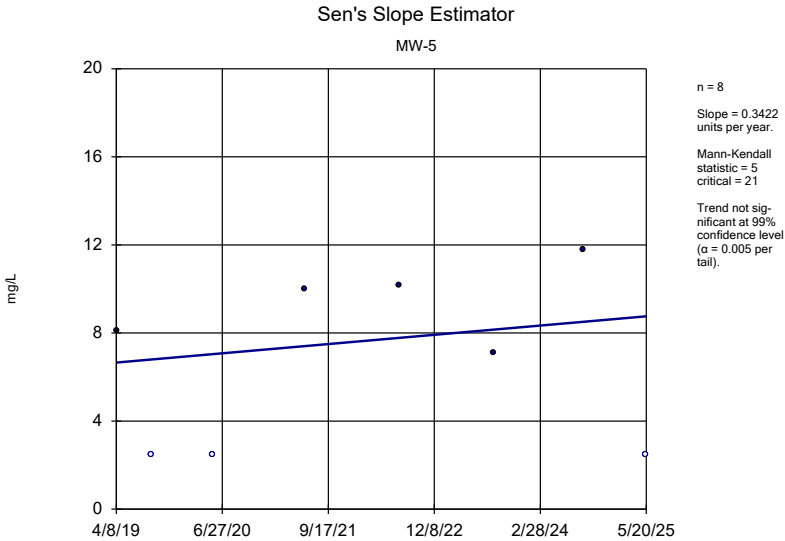
Trend Test

US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP-2025_AWQR-AM Printed 7/17/2025, 3:09 PM

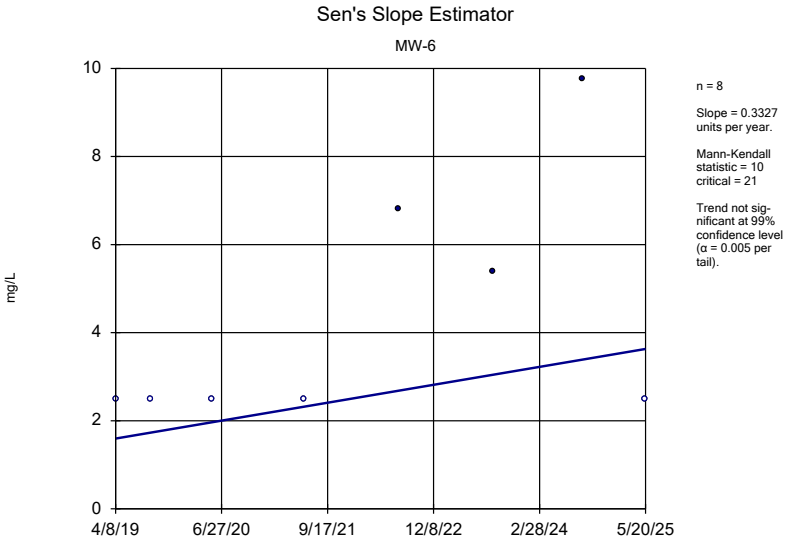
<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
pH (S.U.)	MW-12	-0.002982	-1	-21	No	8	0	0.01	NP
pH (S.U.)	MW-13 (bg)	-0.005834	-5	-21	No	8	0	0.01	NP
pH (S.U.)	MW-14	-0.005639	-10	-21	No	8	0	0.01	NP
pH (S.U.)	MW-15 (bg)	-0.03197	-16	-21	No	8	0	0.01	NP
pH (S.U.)	MW-16 (bg)	-0.02484	-12	-21	No	8	0	0.01	NP
pH (S.U.)	MW-19 (bg)	-0.02013	-13	-21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-5	8.879	12	21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-6	3.752	14	21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-7	56.46	10	21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-8	18.53	18	21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-9	18.59	18	21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-10	84.44	18	21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-11	41.54	16	21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-12	24.21	6	21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-13 (bg)	16.15	18	21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-14	26.63	18	21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-15 (bg)	134.8	24	21	Yes	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-16 (bg)	25.01	18	21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-19 (bg)	12.6	8	21	No	8	0	0.01	NP
Sulfate (mg/L)	MW-11	-10.83	-9	-21	No	8	0	0.01	NP
Sulfate (mg/L)	MW-12	-12.07	-12	-21	No	8	0	0.01	NP
Sulfate (mg/L)	MW-15 (bg)	40.35	18	21	No	8	0	0.01	NP



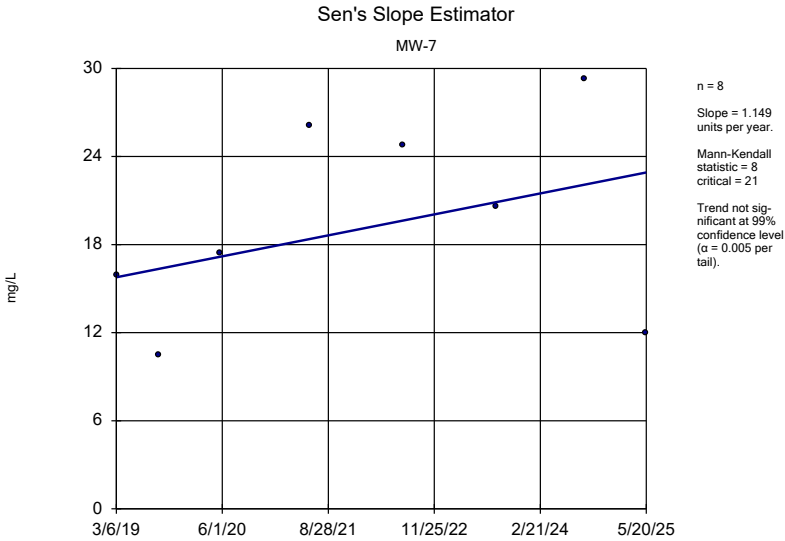
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US Gypsum Sperry Landfill Client: SCS Engineers Data: USGY-2025_AWQR-AM



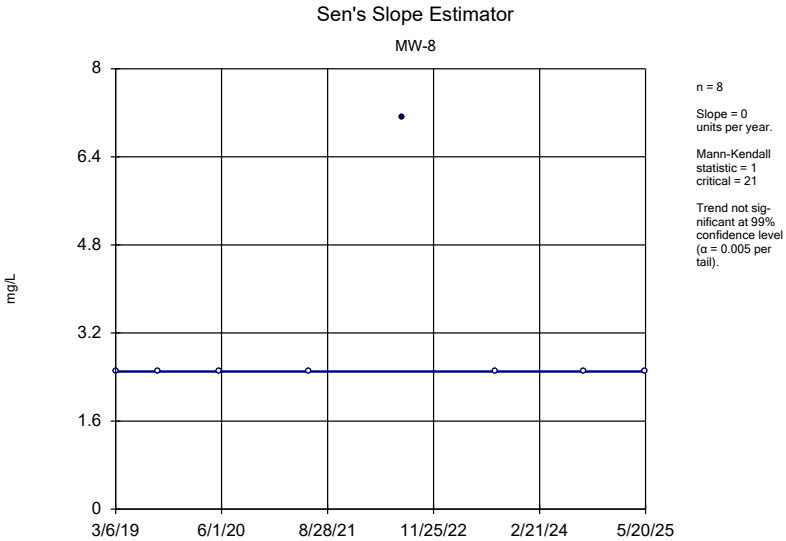
Constituent: Chemical Oxygen Demand Analysis Run 7/17/2025 3:06 PM View: 2025AWQR - Mann Kend
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGY-2025_AWQR-AM



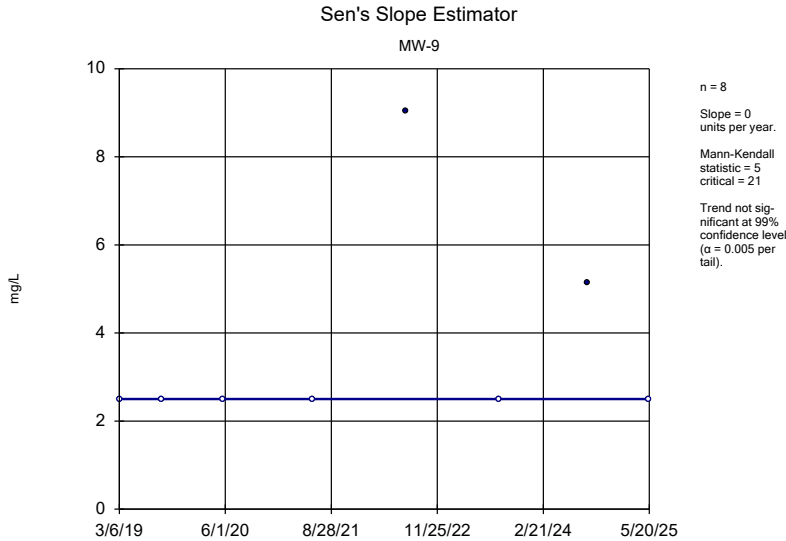
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US Gypsum Sperry Landfill Client: SCS Engineers Data: USGY-2025_AWQR-AM



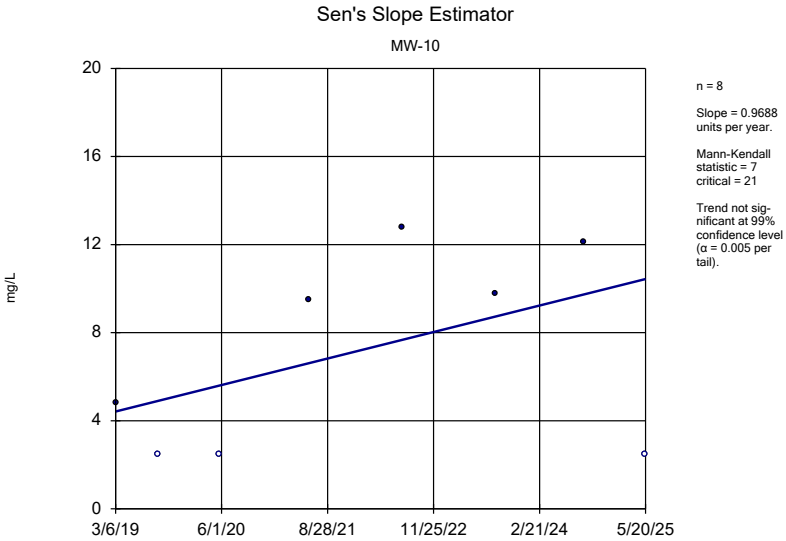
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US Gypsum Sperry Landfill Client: SCS Engineers Data: USGY-2025_AWQR-AM



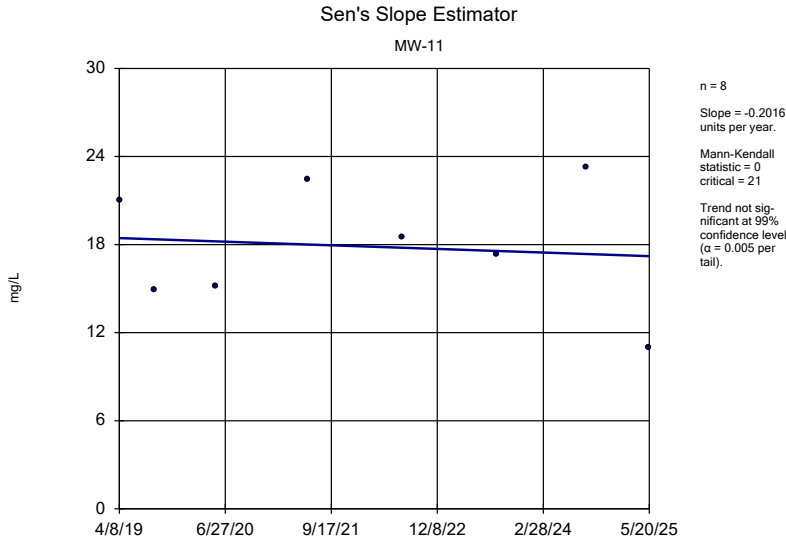
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US Gypsum Sperry Landfill Client: SCS Engineers Data: USGY-2025_AWQR-AM



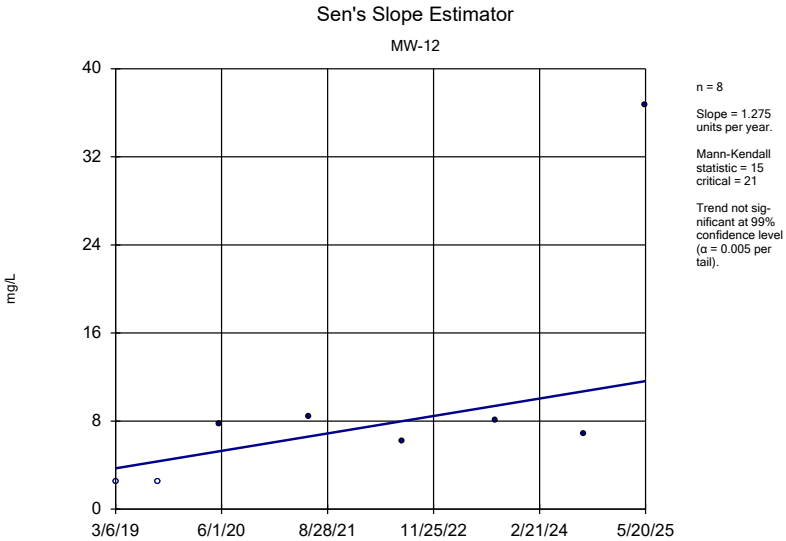
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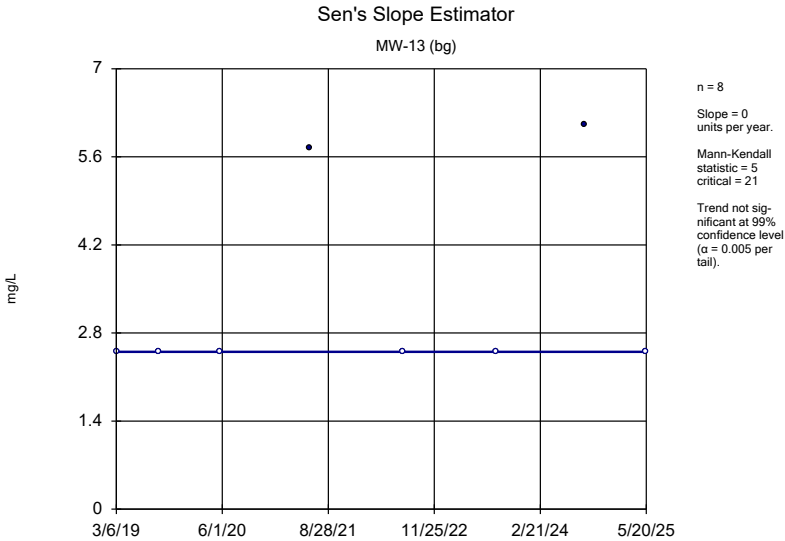
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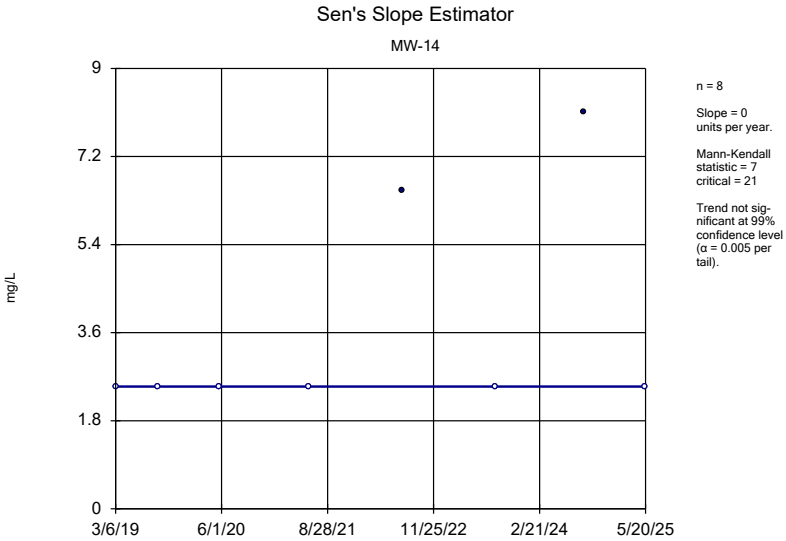
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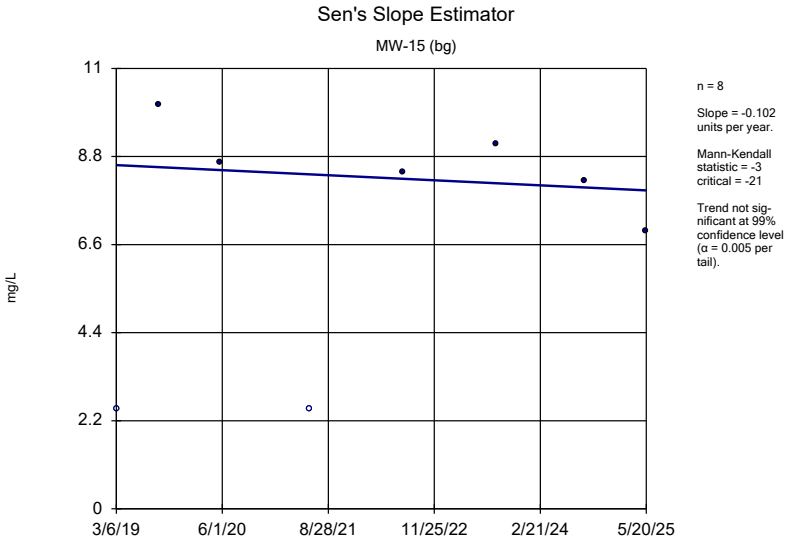
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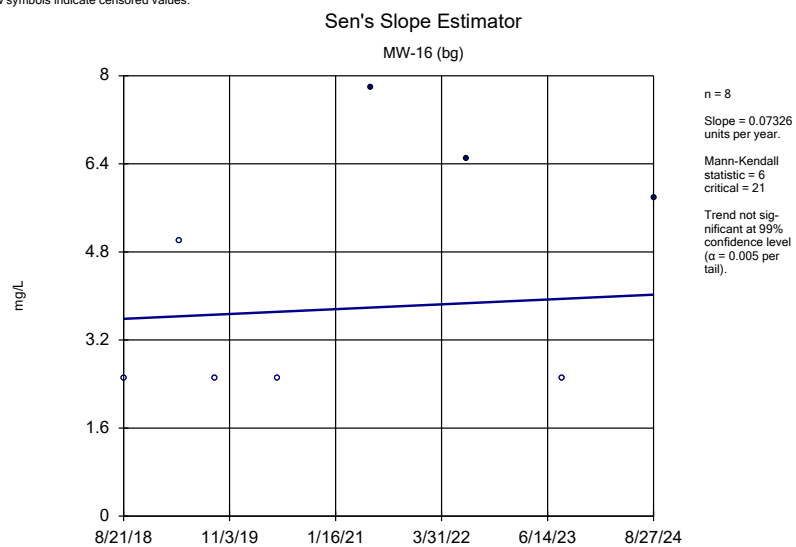
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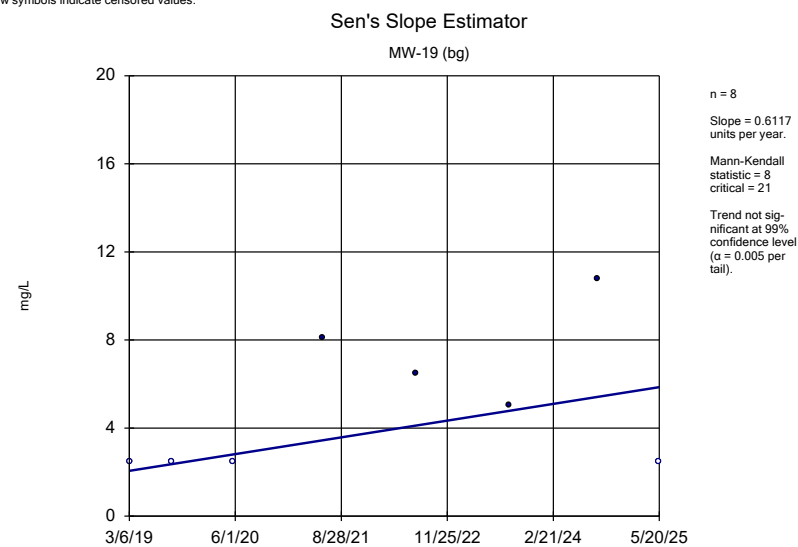
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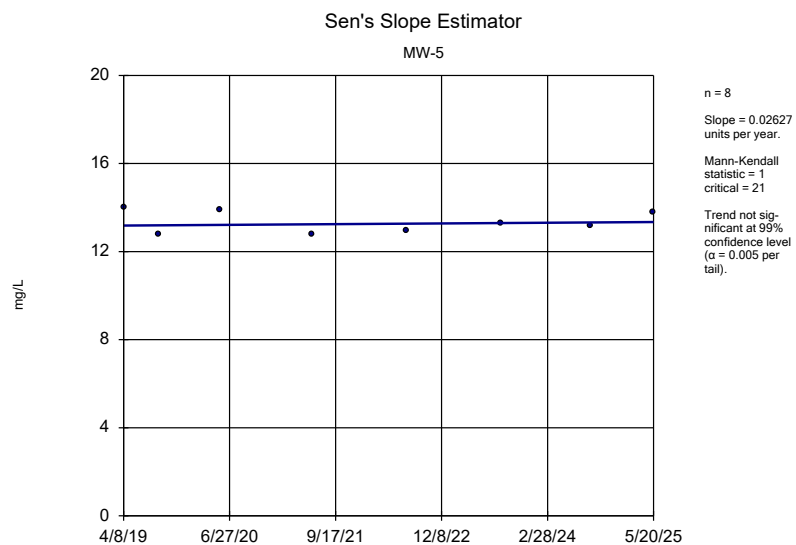
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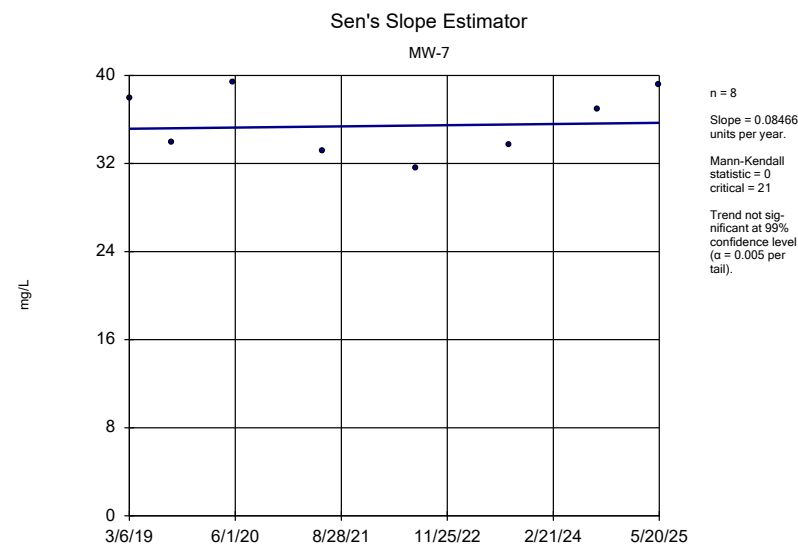
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US Gypsum Sperry Landfill Client: SCS Engineers Data: USGY-2025_AWQR-AM



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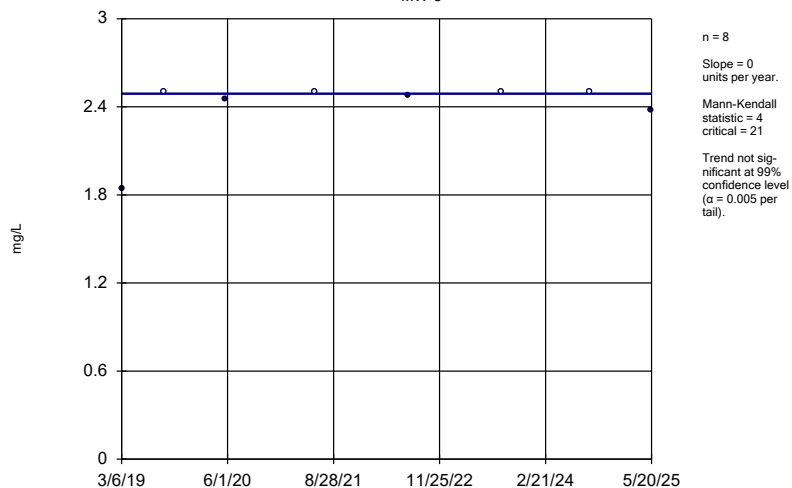
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US Gypsum Sperry Landfill Client: SCS Engineers Data: USGY-2025_AWQR-AM



Constituent: Chloride Analysis Run 7/17/2025 3:07 PM View: 2025AWQR - Mann Kendall
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGY-2025_AWQR-AM

Sen's Slope Estimator

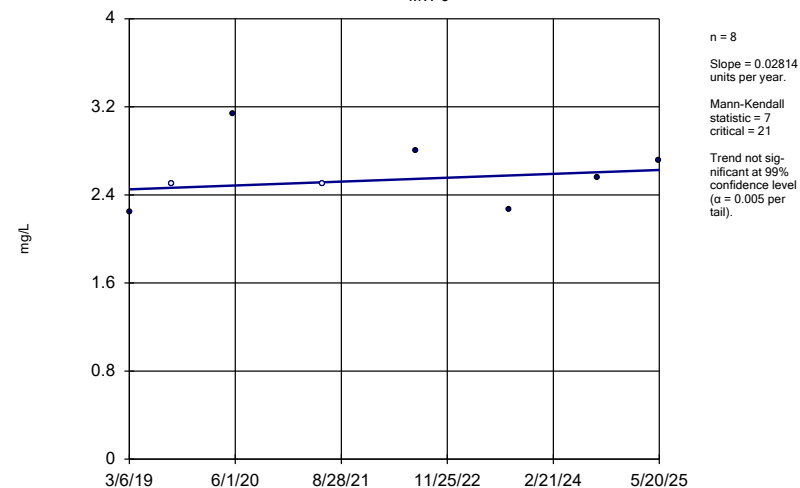
MW-8



Constituent: Chloride Analysis Run 7/17/2025 3:07 PM View: 2025AWQR - Mann Kendall
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGY-2025_AWQR-AM

Sen's Slope Estimator

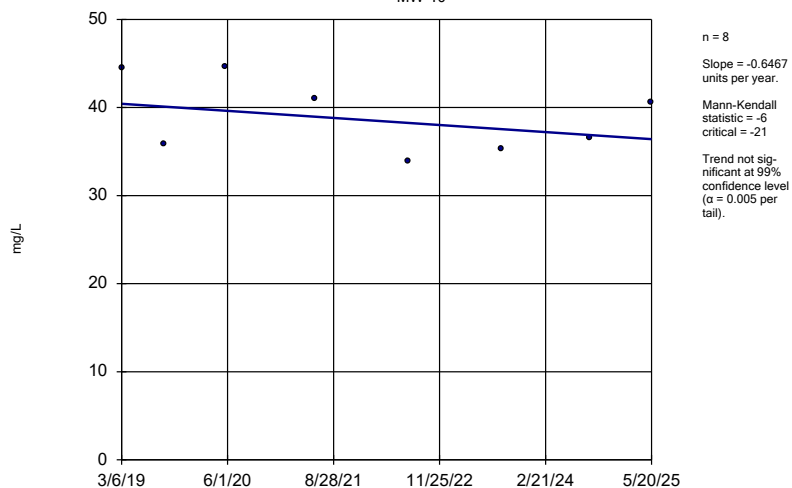
MW-9



Constituent: Chloride Analysis Run 7/17/2025 3:07 PM View: 2025AWQR - Mann Kendall
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGY-2025_AWQR-AM

Sen's Slope Estimator

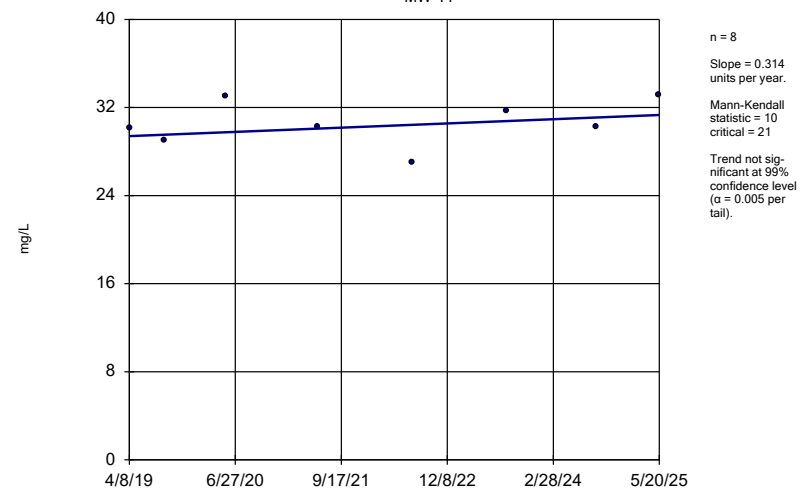
MW-10



Constituent: Chloride Analysis Run 7/17/2025 3:07 PM View: 2025AWQR - Mann Kendall
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGY-2025_AWQR-AM

Sen's Slope Estimator

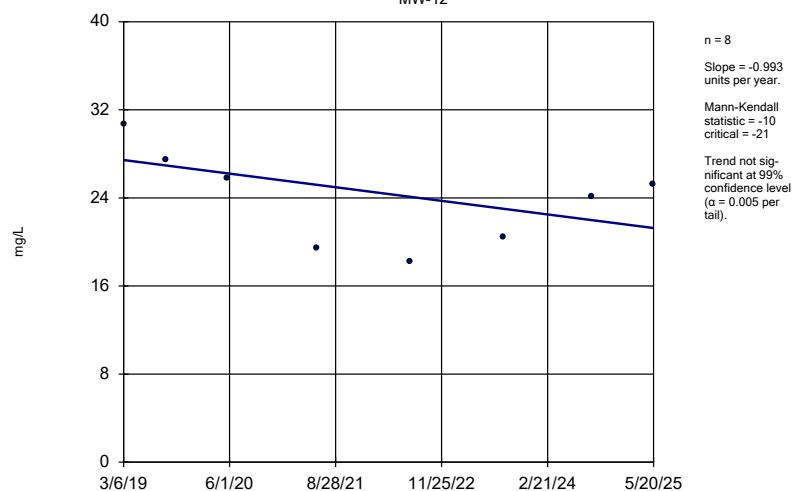
MW-11



Constituent: Chloride Analysis Run 7/17/2025 3:07 PM View: 2025AWQR - Mann Kendall
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGY-2025_AWQR-AM

Sen's Slope Estimator

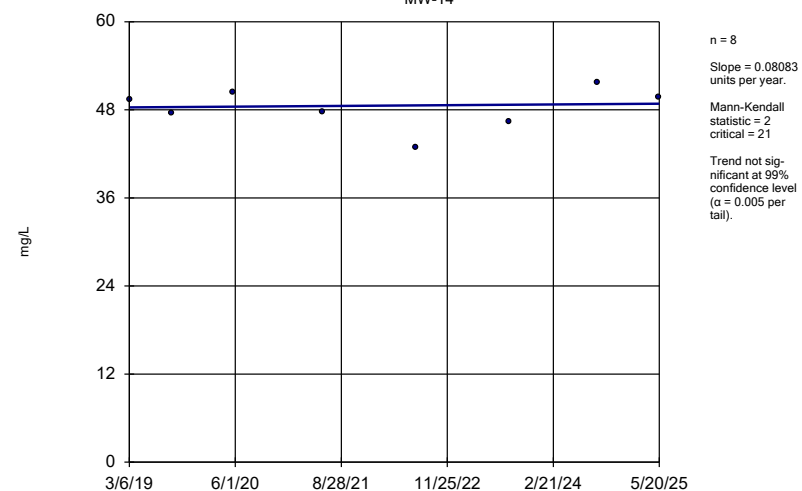
MW-12



Constituent: Chloride Analysis Run 7/17/2025 3:07 PM View: 2025AWQR - Mann Kendall
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP-2025_AWQR-AM

Sen's Slope Estimator

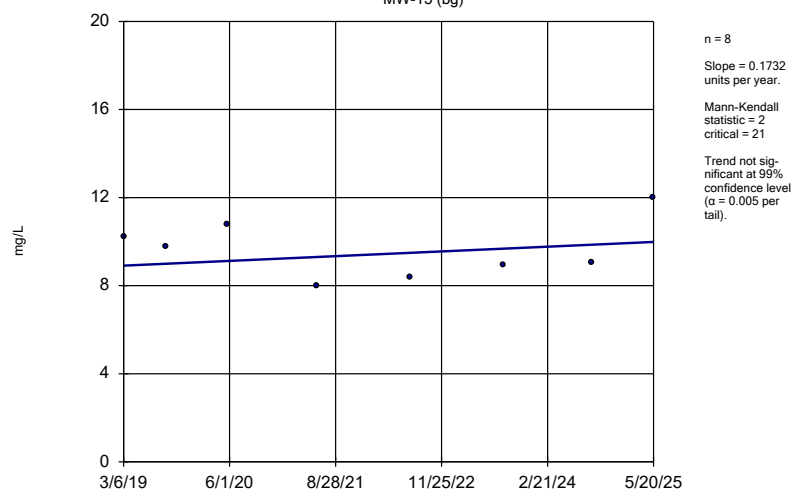
MW-14



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US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP-2025_AWQR-AM

Sen's Slope Estimator

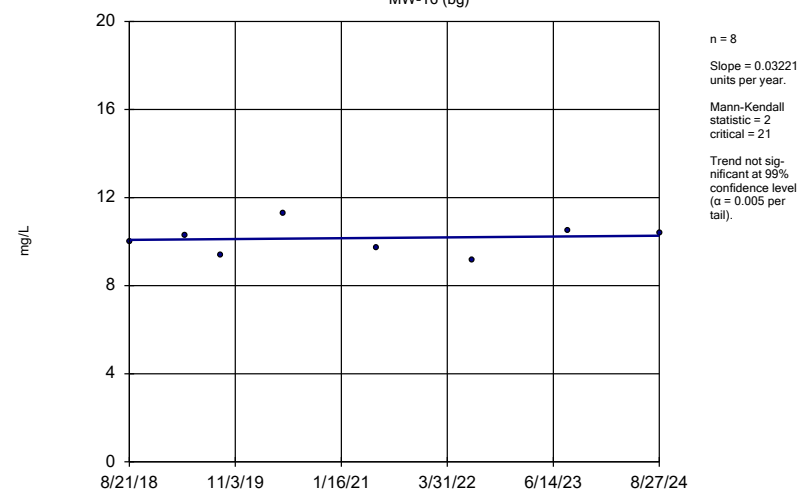
MW-15 (bg)



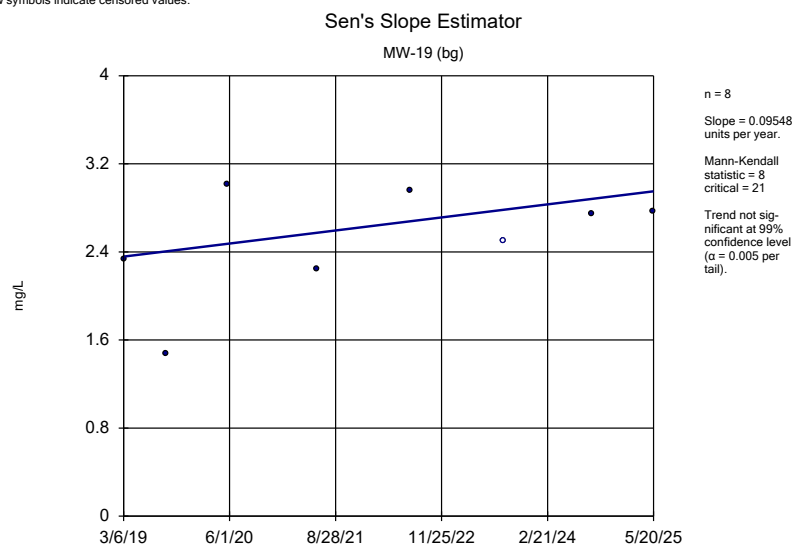
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US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP-2025_AWQR-AM

Sen's Slope Estimator

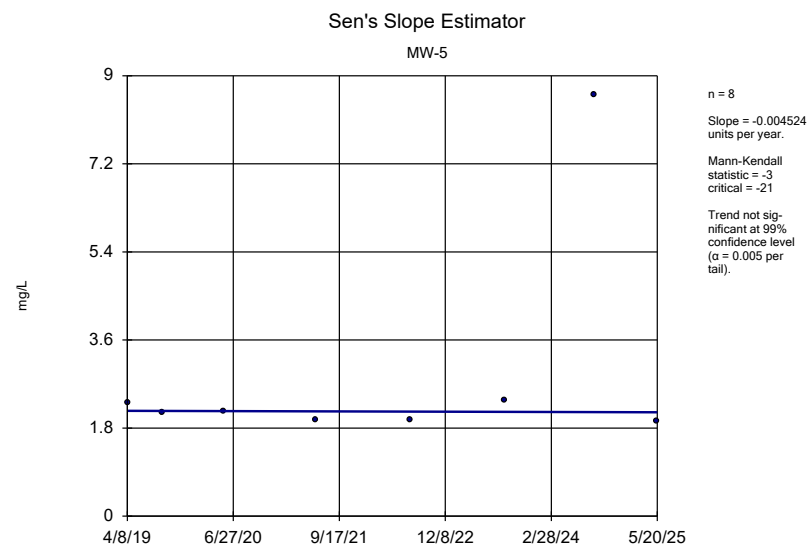
MW-16 (bg)



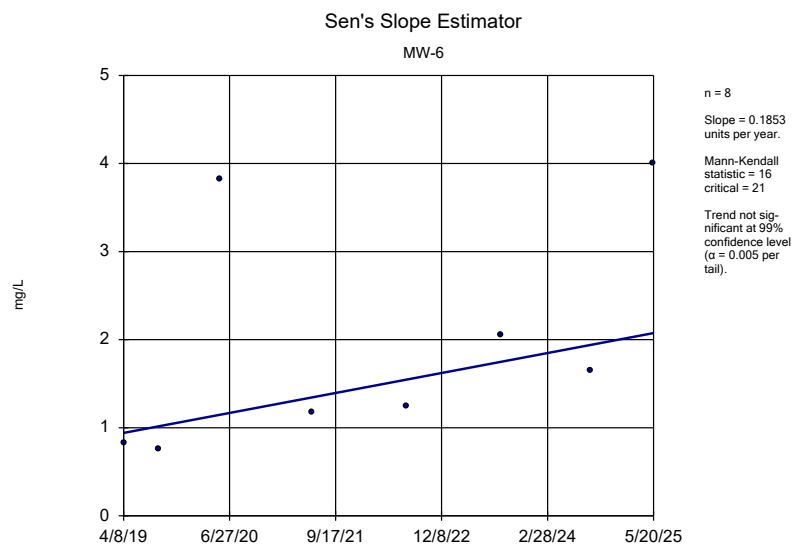
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US Gypsum Sperry Landfill Client: SCS Engineers Data: USGYP-2025_AWQR-AM



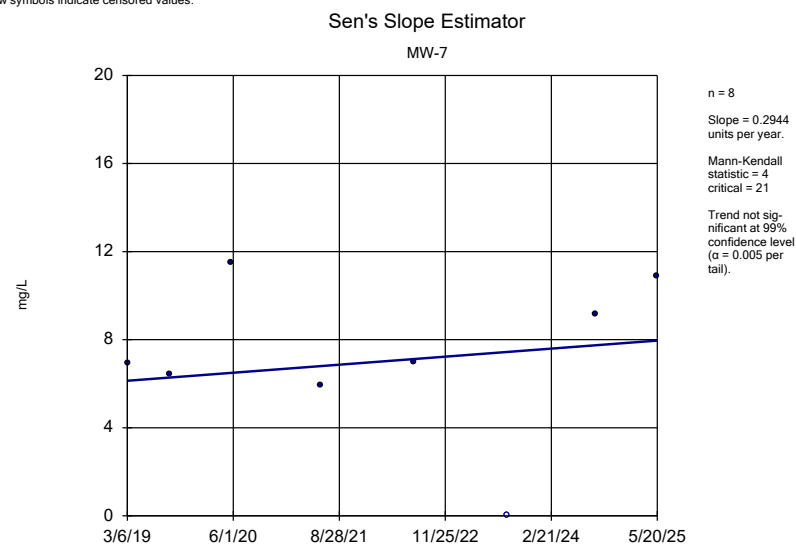
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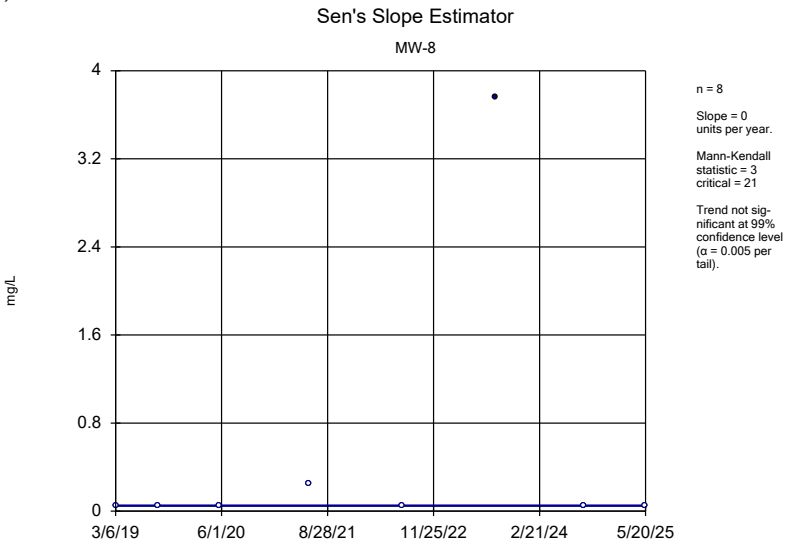
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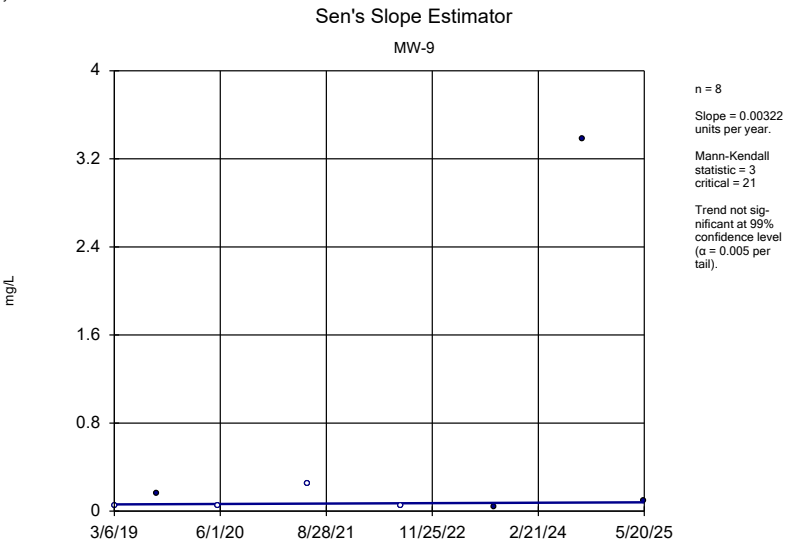
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US Gypsum Sperry Landfill Client: SCS Engineers Data: USGY-2025_AWQR-AM



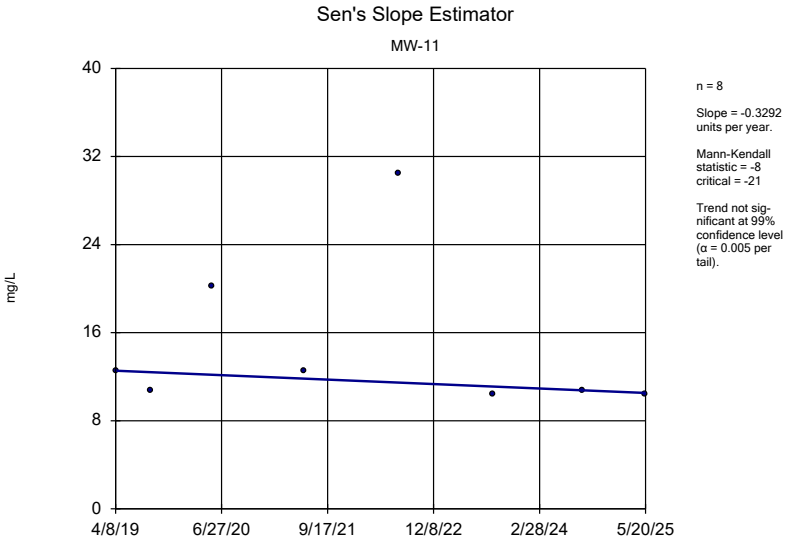
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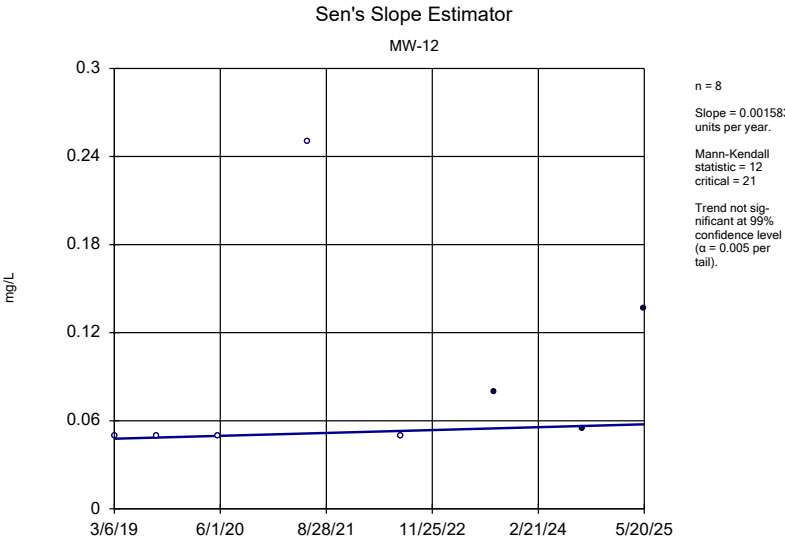
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US Gypsum Sperry Landfill Client: SCS Engineers Data: USGY-2025_AWQR-AM



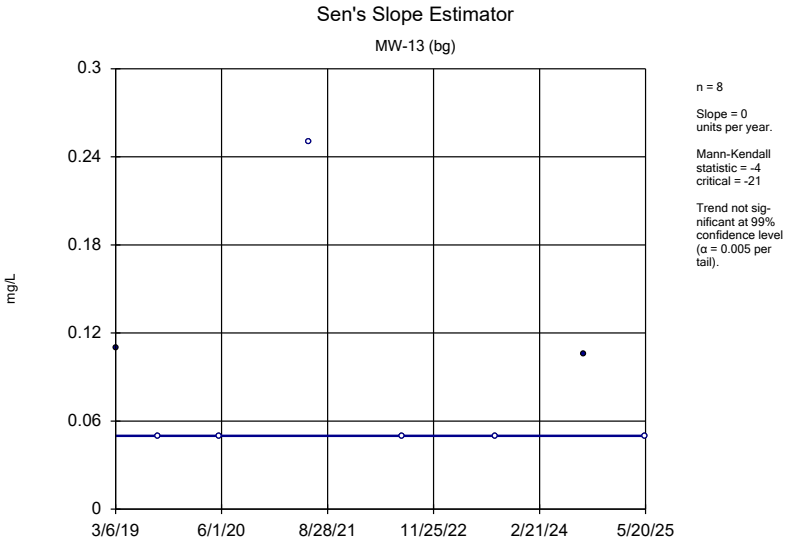
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US Gypsum Sperry Landfill Client: SCS Engineers Data: USGY-2025_AWQR-AM



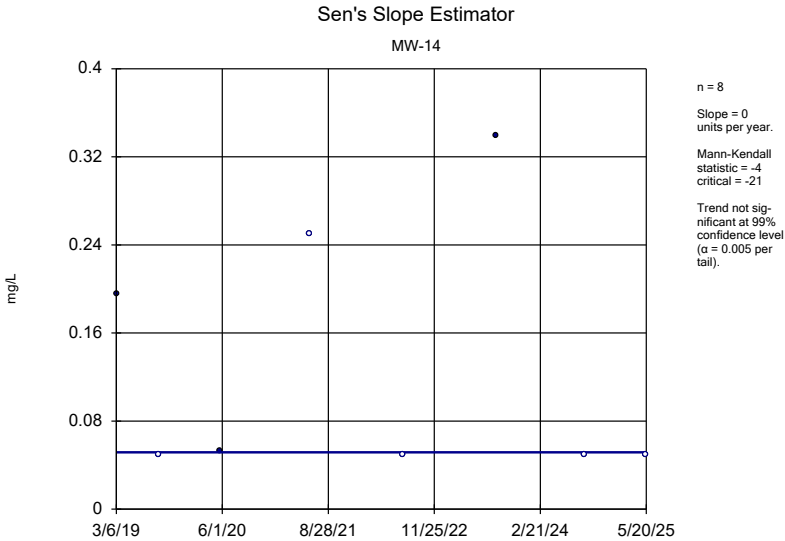
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US Gypsum Sperry Landfill Client: SCS Engineers Data: USGY-2025_AWQR-AM



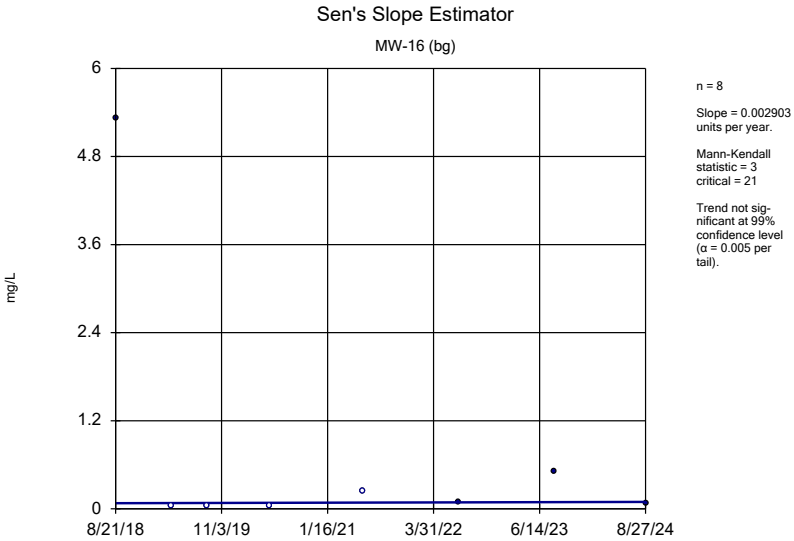
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US Gypsum Sperry Landfill Client: SCS Engineers Data: USGY-2025_AWQR-AM



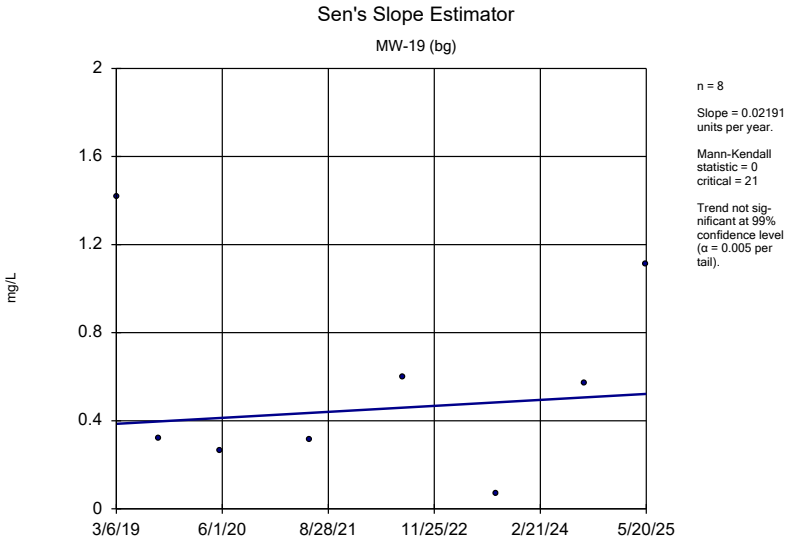
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US Gypsum Sperry Landfill Client: SCS Engineers Data: USGY-2025_AWQR-AM



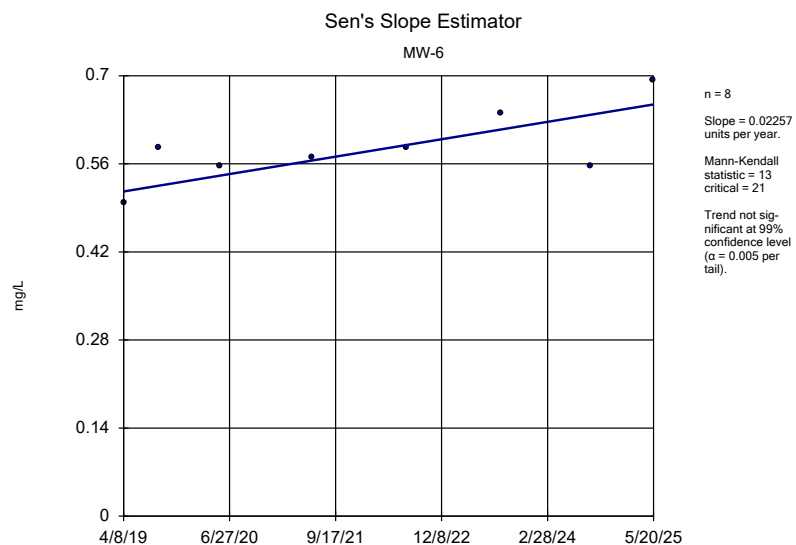
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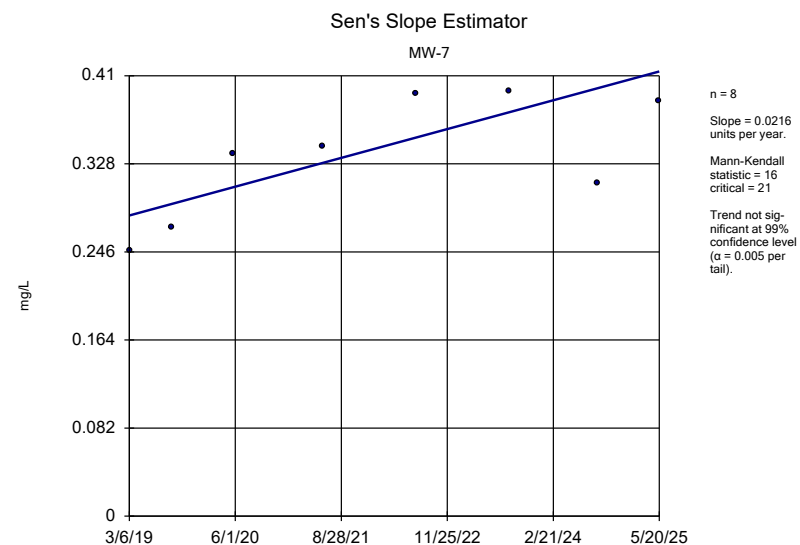
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US Gypsum Sperry Landfill Client: SCS Engineers Data: USGY-2025_AWQR-AM



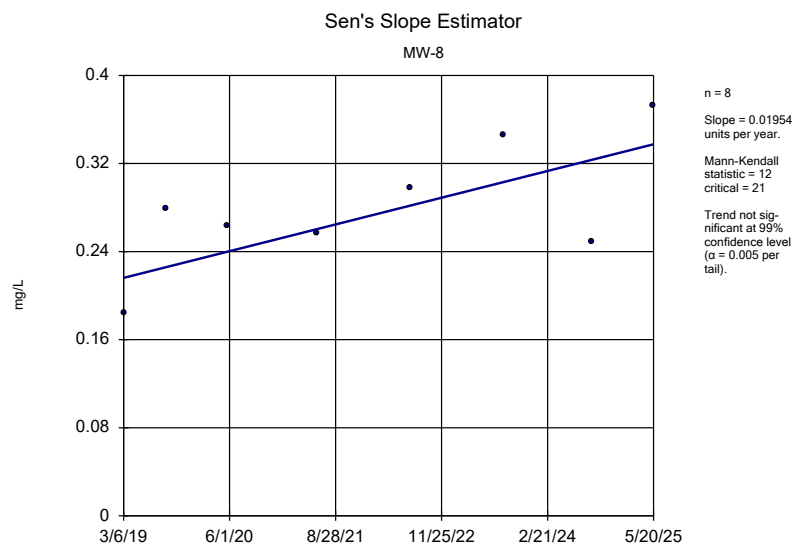
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US Gypsum Sperry Landfill Client: SCS Engineers Data: USGY-2025_AWQR-AM



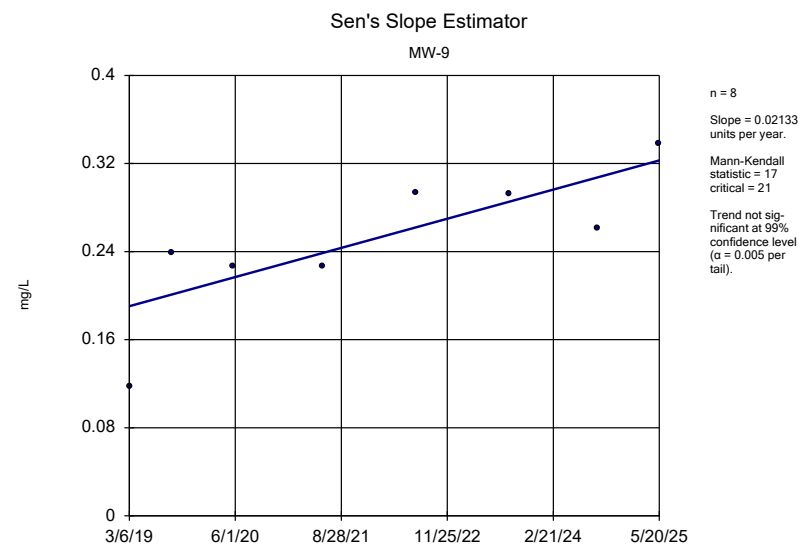
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US Gypsum Sperry Landfill Client: SCS Engineers Data: USGY-2025_AWQR-AM



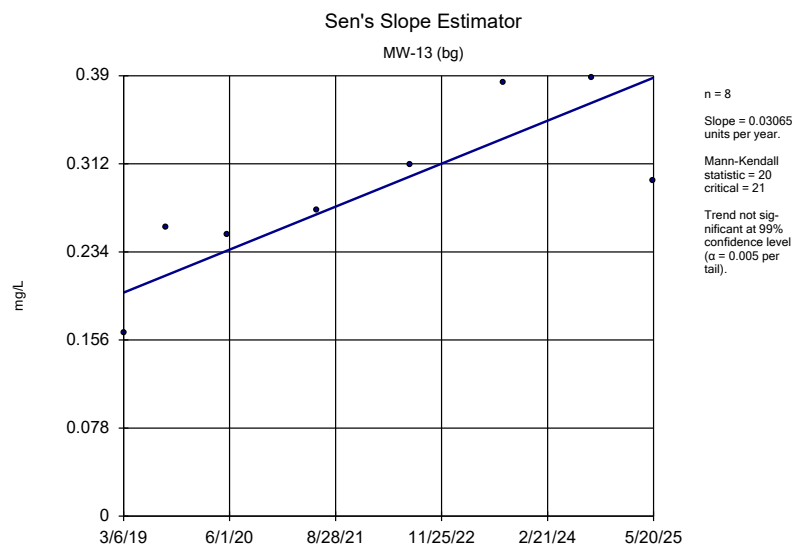
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US Gypsum Sperry Landfill Client: SCS Engineers Data: USGY-2025_AWQR-AM



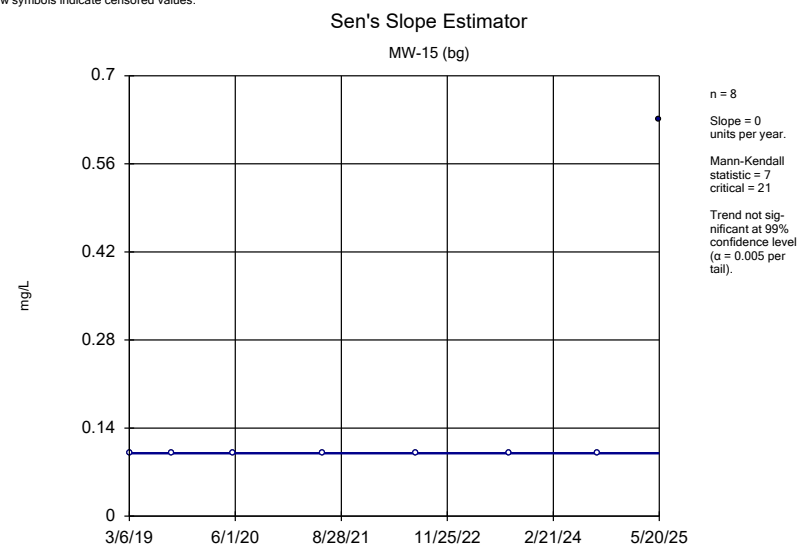
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US Gypsum Sperry Landfill Client: SCS Engineers Data: USGY-2025_AWQR-AM



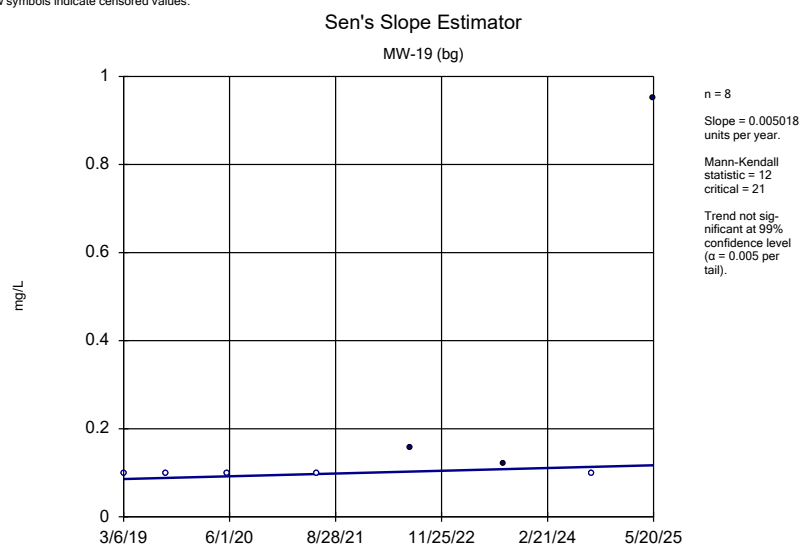
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US Gypsum Sperry Landfill Client: SCS Engineers Data: USGY-2025_AWQR-AM



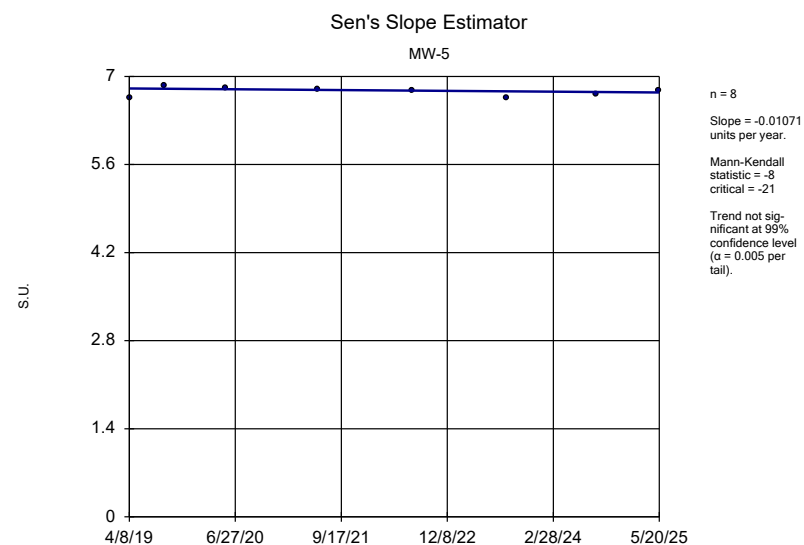
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US Gypsum Sperry Landfill Client: SCS Engineers Data: USGY-2025_AWQR-AM



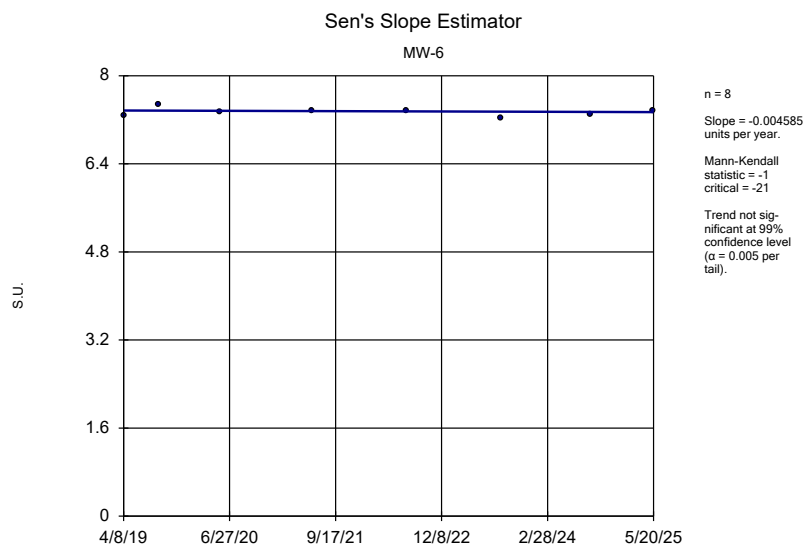
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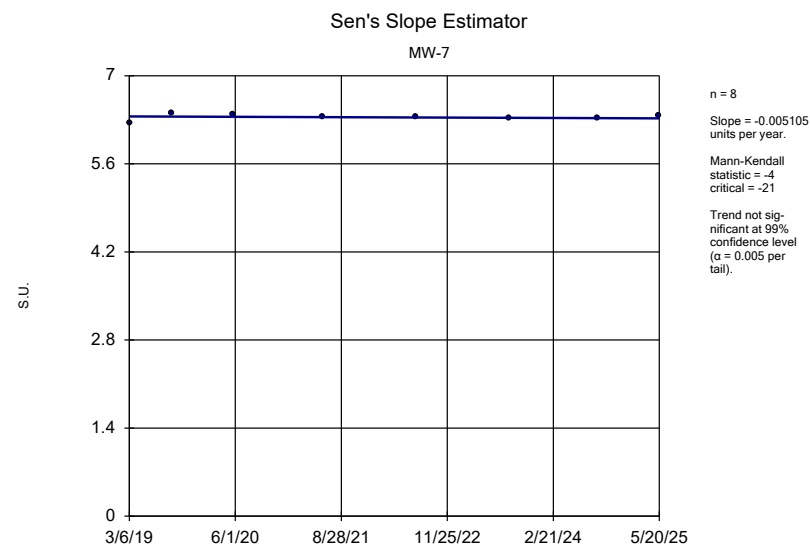
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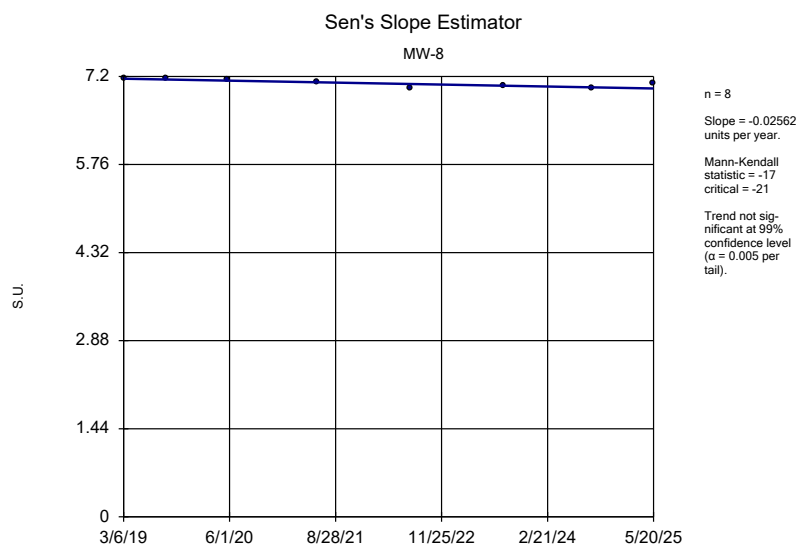
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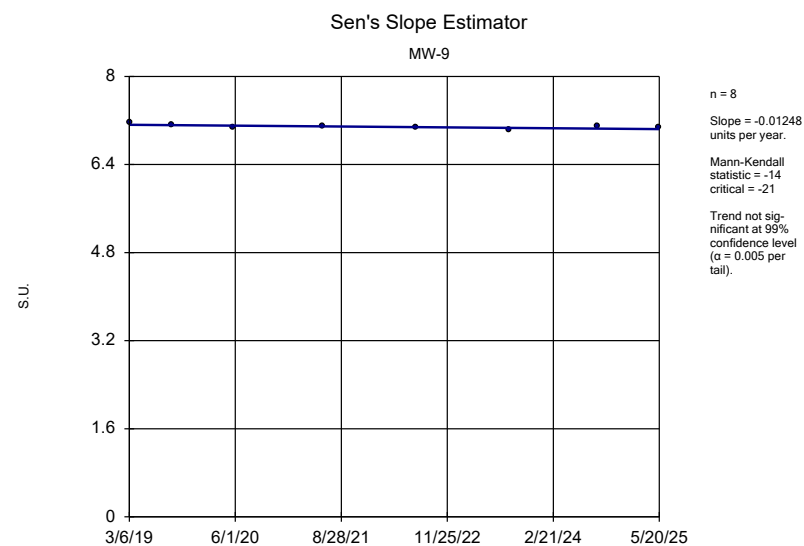
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US Gypsum Sperry Landfill Client: SCS Engineers Data: USGY-2025_AWQR-AM



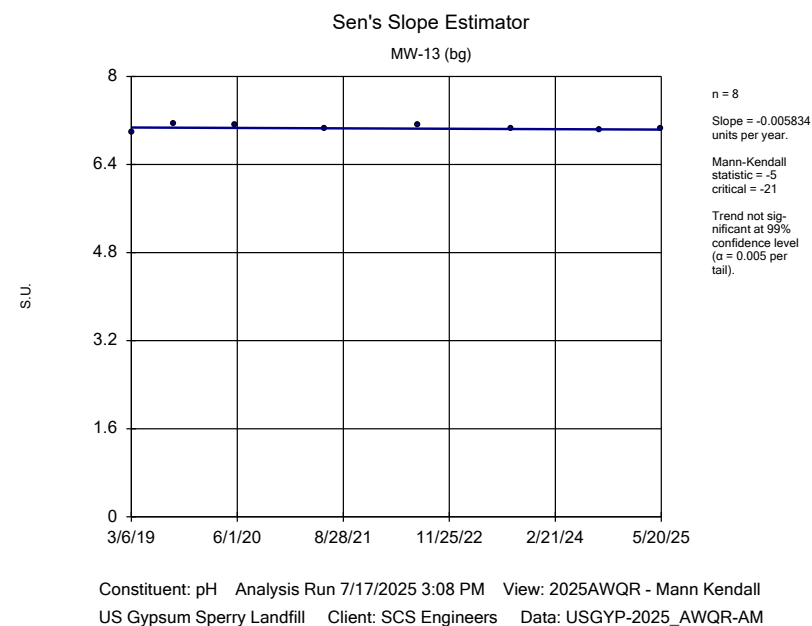
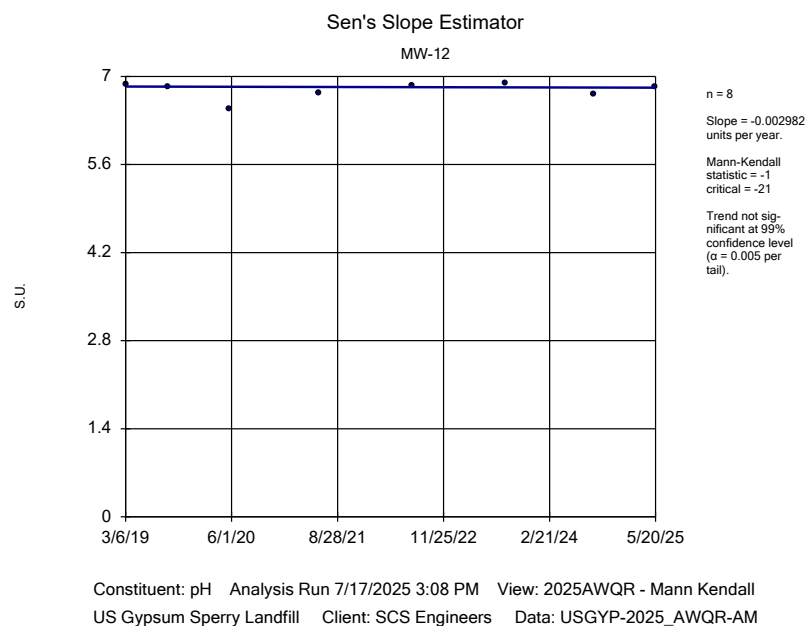
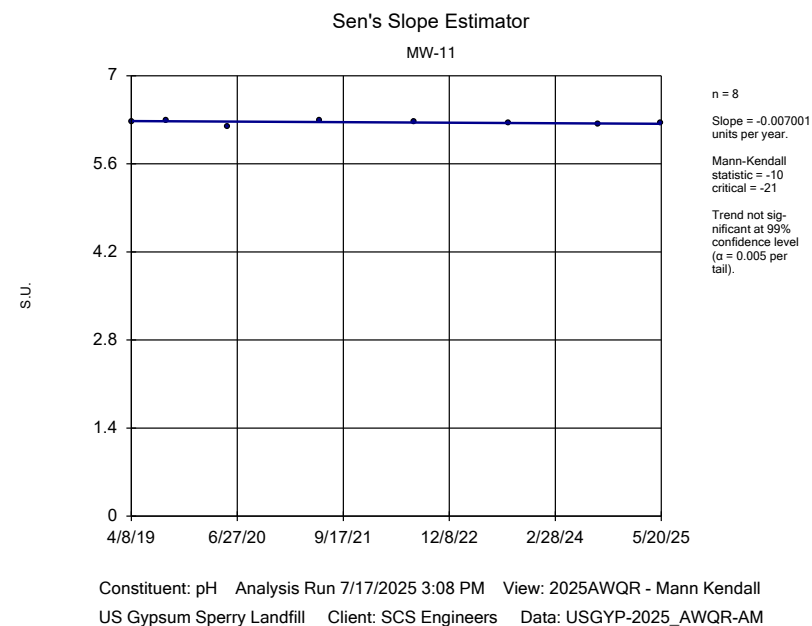
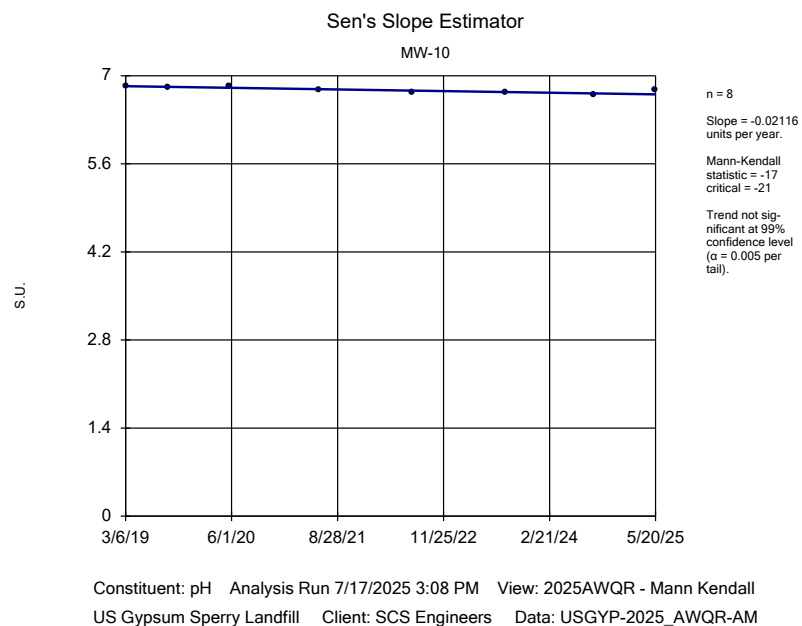
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US Gypsum Sperry Landfill Client: SCS Engineers Data: USGY-2025_AWQR-AM

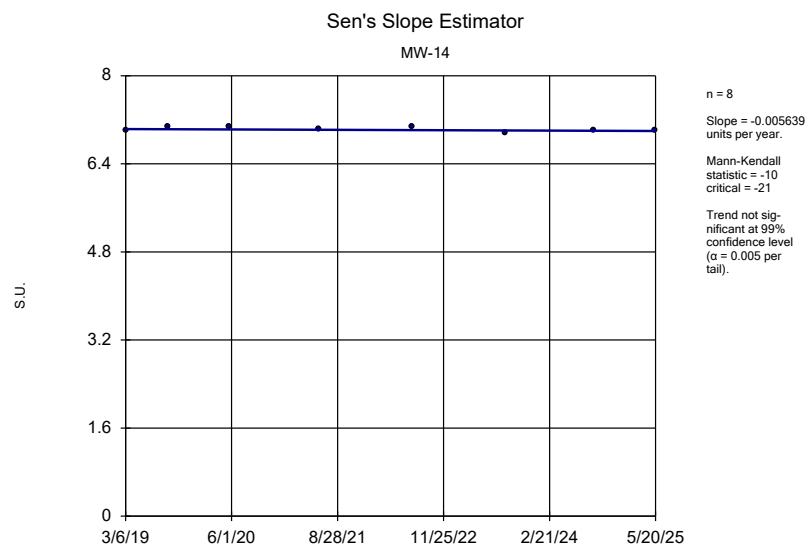


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US Gypsum Sperry Landfill Client: SCS Engineers Data: USGY-2025_AWQR-AM

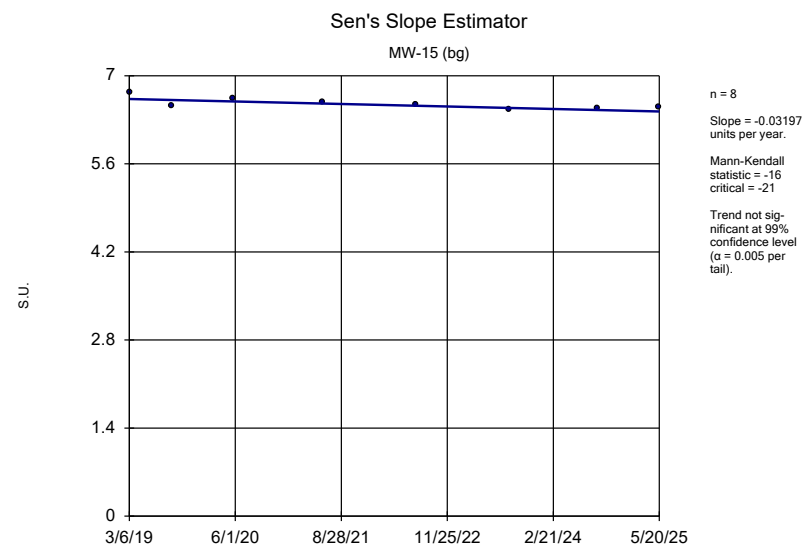


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US Gypsum Sperry Landfill Client: SCS Engineers Data: USGY-2025_AWQR-AM

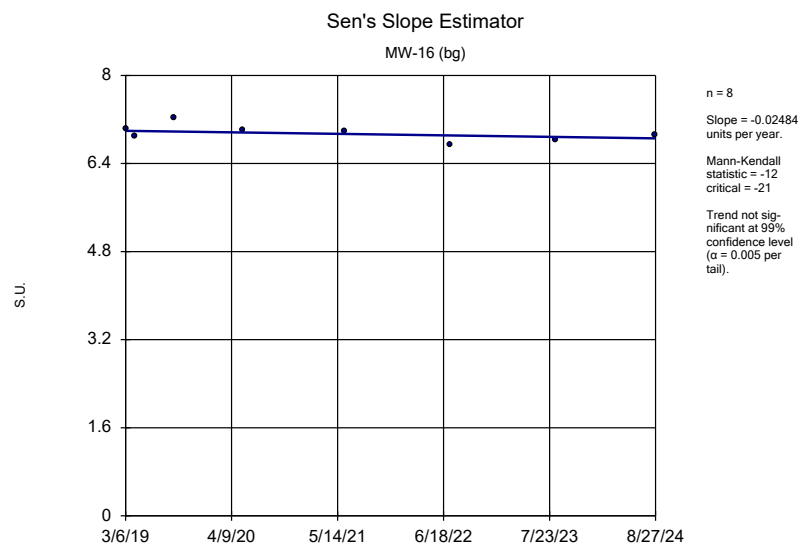




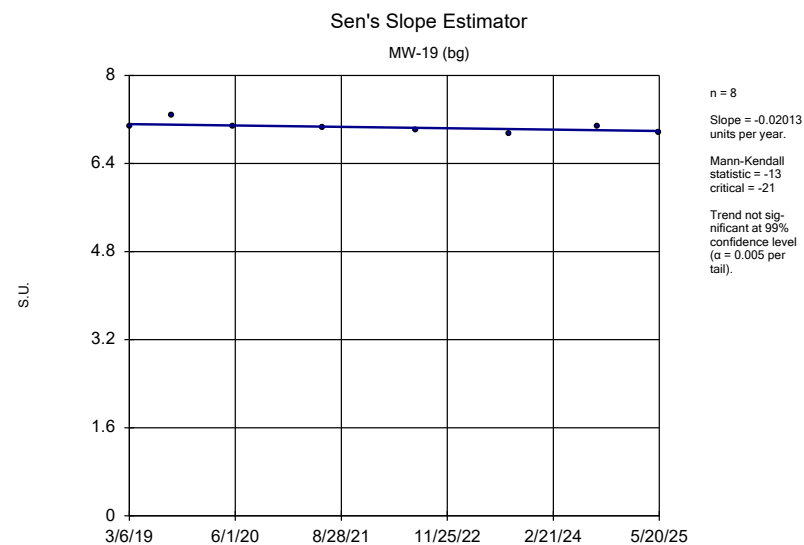
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US Gypsum Sperry Landfill Client: SCS Engineers Data: USGY-2025_AWQR-AM



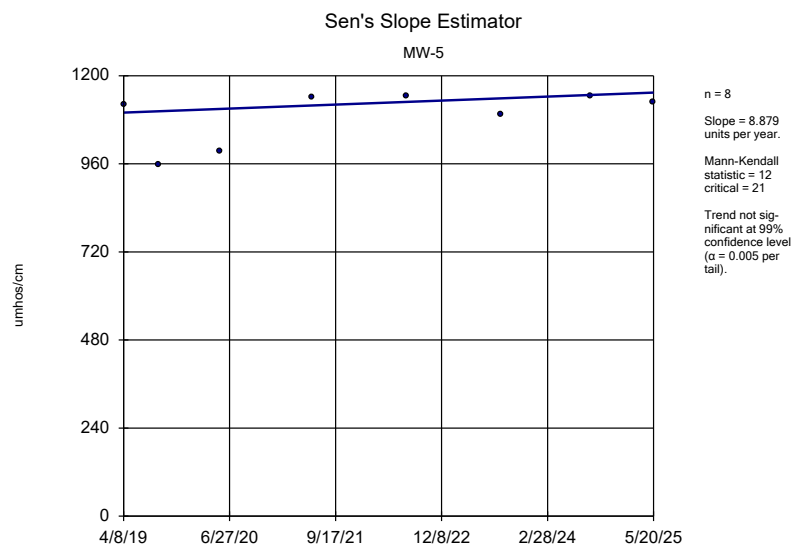
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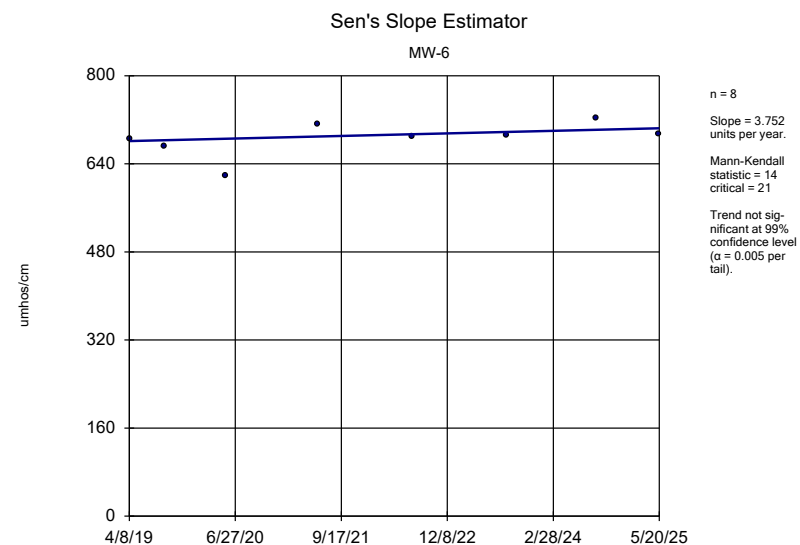
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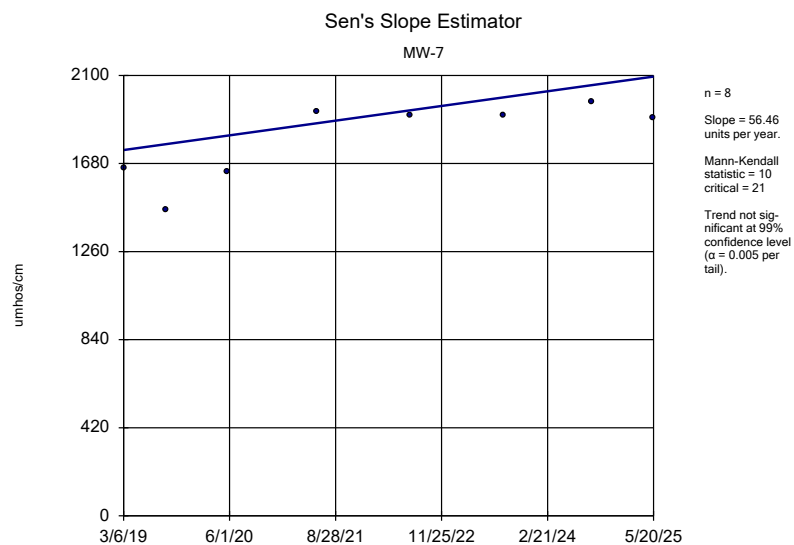
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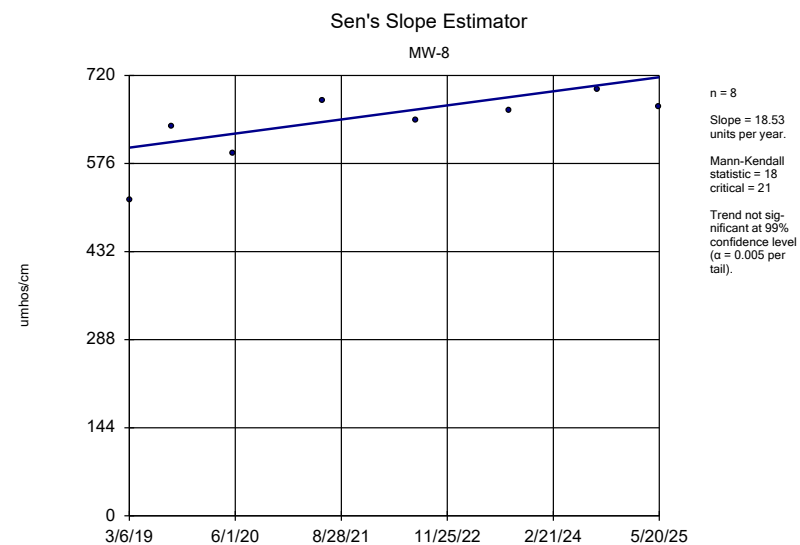
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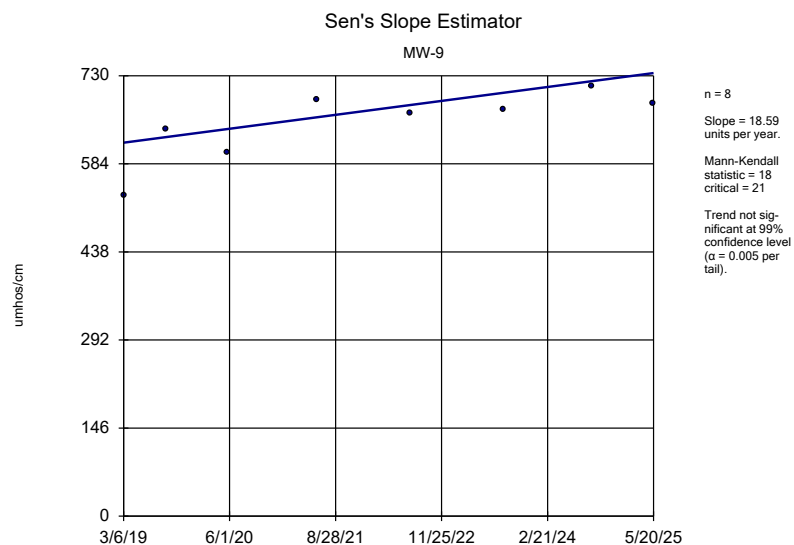
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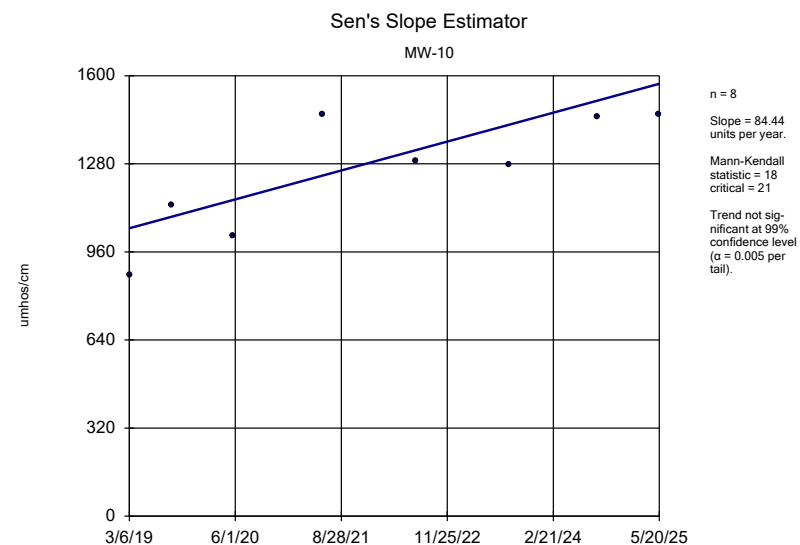
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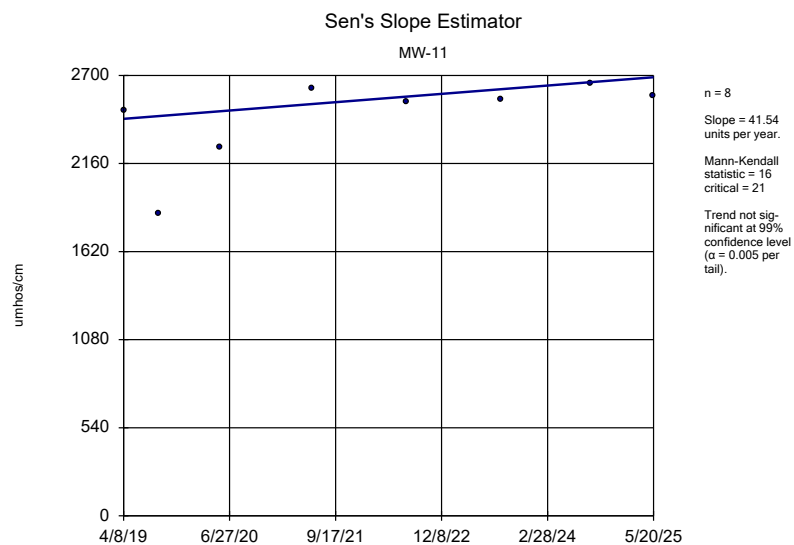
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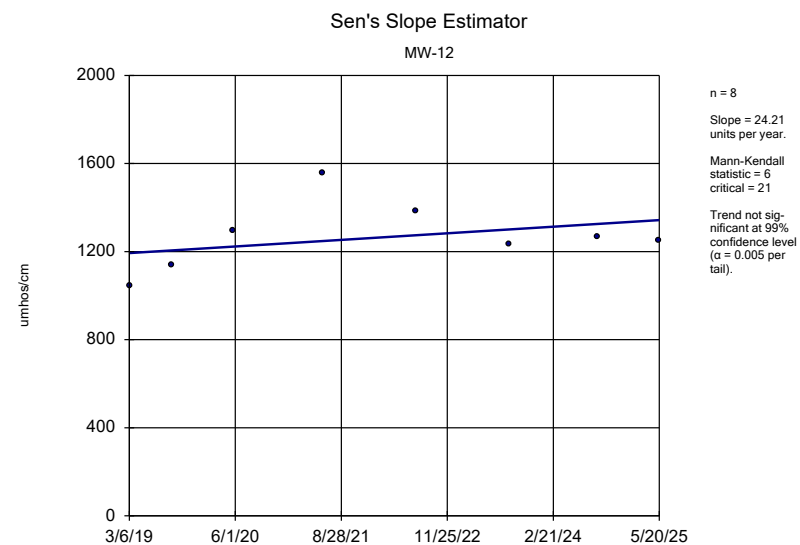
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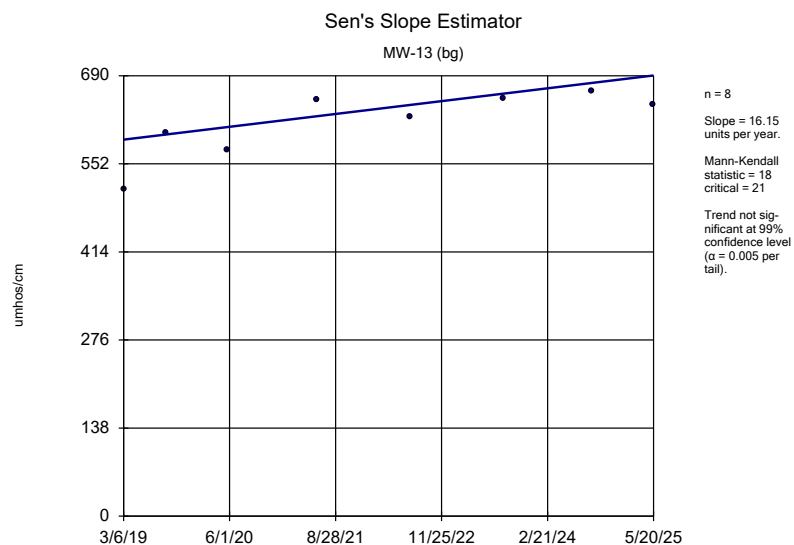
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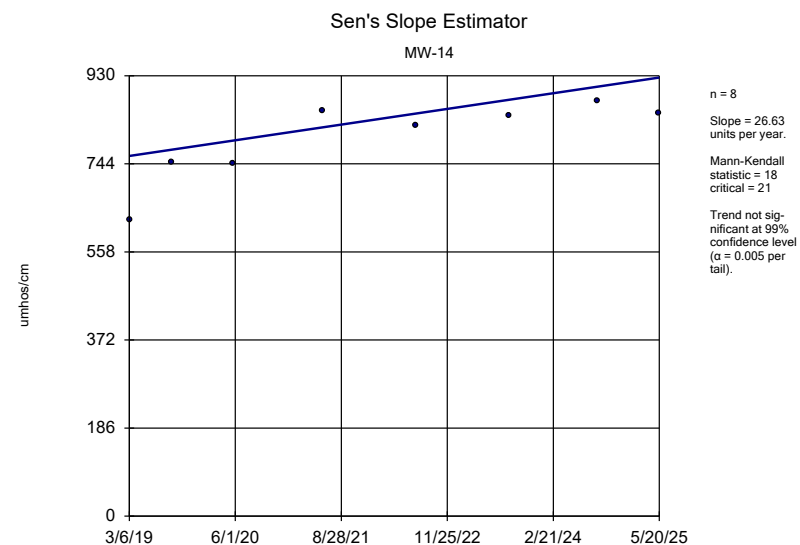
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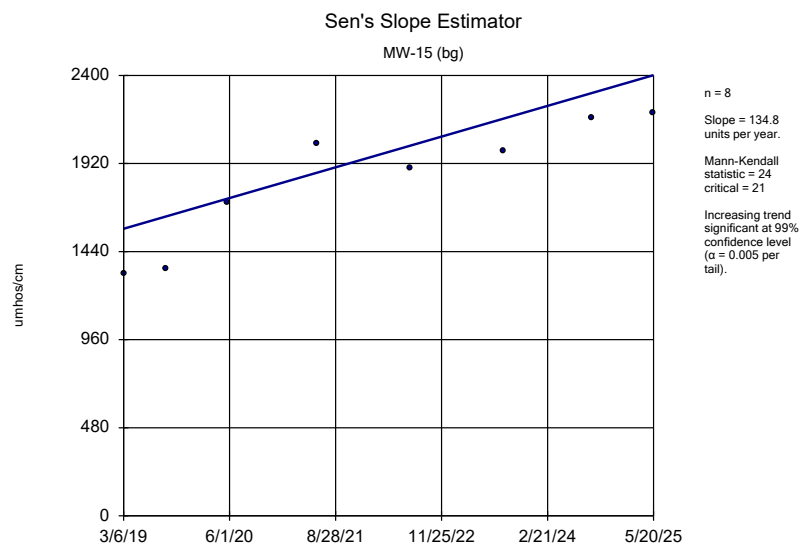
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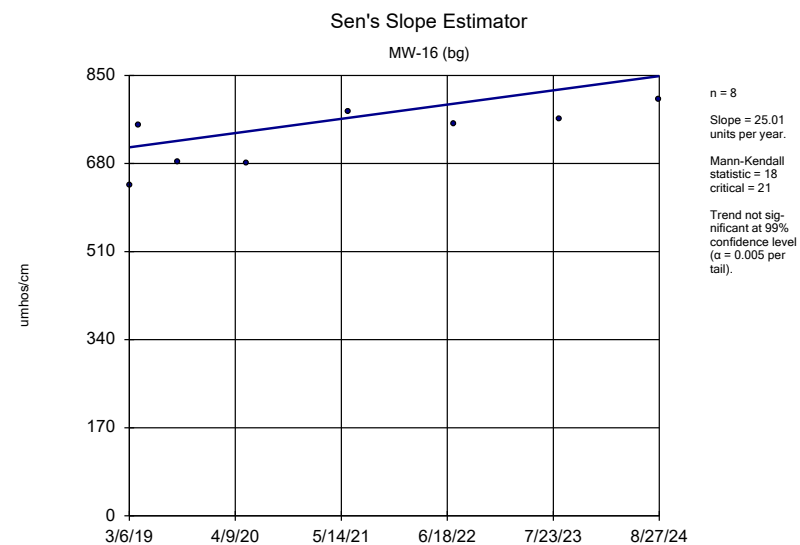
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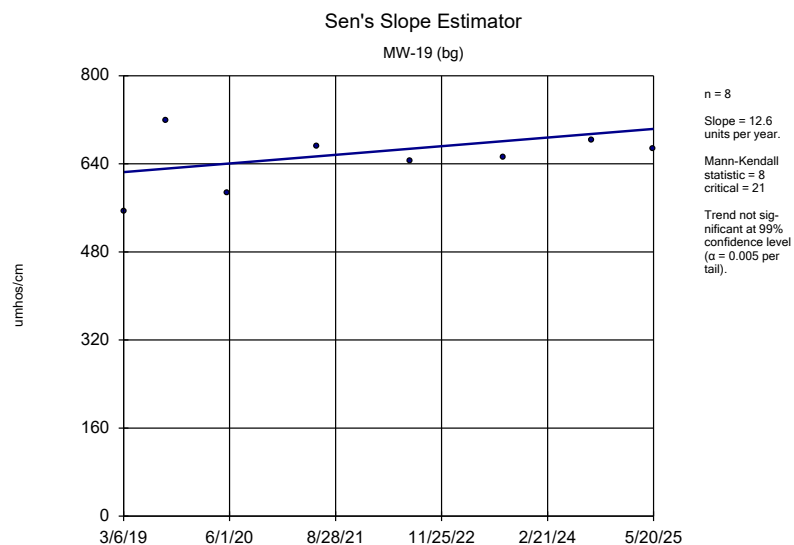
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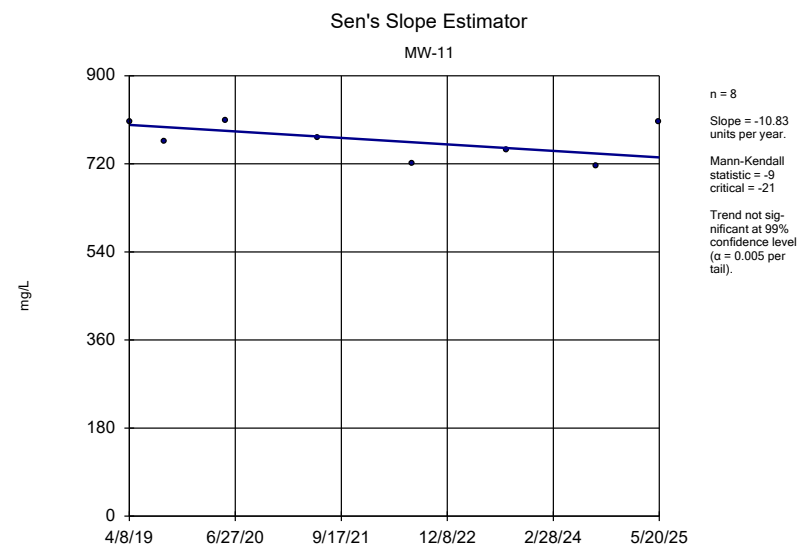
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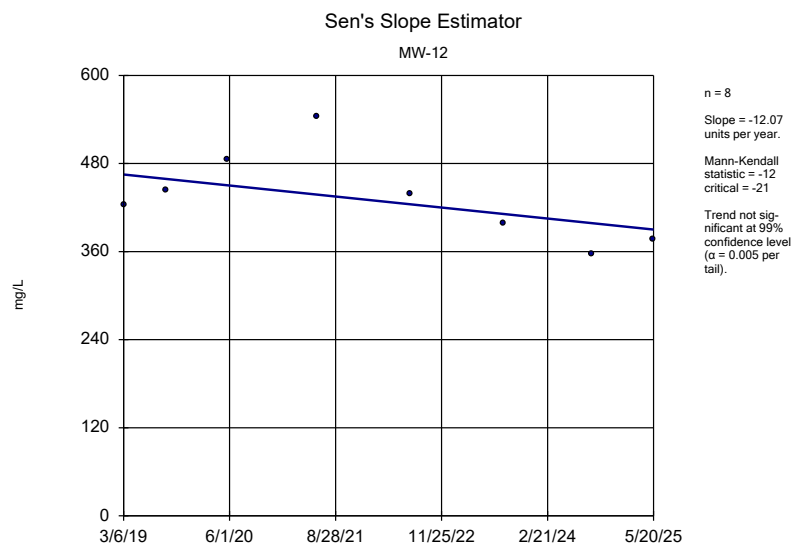
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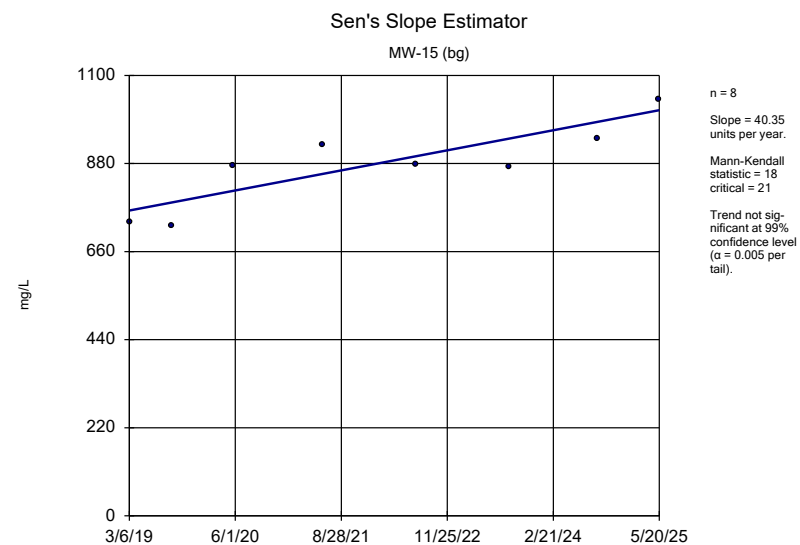
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US Gypsum Sperry Landfill Client: SCS Engineers Data: USGY-2025_AWQR-AM



Constituent: Sulfate Analysis Run 7/17/2025 3:08 PM View: 2025AWQR - Mann Kendall
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGY-2025_AWQR-AM



Constituent: Sulfate Analysis Run 7/17/2025 3:08 PM View: 2025AWQR - Mann Kendall
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGY-2025_AWQR-AM



Constituent: Sulfate Analysis Run 7/17/2025 3:08 PM View: 2025AWQR - Mann Kendall
US Gypsum Sperry Landfill Client: SCS Engineers Data: USGY-2025_AWQR-AM

Appendix E

Mann-Kendall Trend Table

Monitoring Well	Constituent Name	Calculated Statistic		
		Decreasing Trend	Stable Trend	Increasing Trend
MW-5	Chemical Oxygen Demand		5	
	Chloride		1	
	Iron		-3	
	pH		-8	
	Specific Conductance		12	
MW-6	Chemical Oxygen Demand		10	
	Iron			16
	Nitrogen, Ammonia			13
	pH		-1	
	Specific Conductance			14
MW-7	Arsenic		0	
	Chemical Oxygen Demand		8	
	Chloride		0	
	Iron		4	
	Nitrogen, Ammonia			16
	pH		-4	
	Specific Conductance		10	
MW-8	Chemical Oxygen Demand		1	
	Chloride		4	
	Iron		3	
	Nitrogen, Ammonia		12	
	pH	-17		
	Specific Conductance			18
MW-9	Chemical Oxygen Demand		5	
	Chloride		7	
	Iron		3	
	Nitrogen, Ammonia			17
	pH	-14		
	Specific Conductance			18
MW-10	Chemical Oxygen Demand		7	
	Chloride		-6	
	pH	-17		
	Specific Conductance			18
MW-11	Chemical Oxygen Demand		0	
	Chloride		10	
	Iron		-8	
	pH		-10	
	Specific Conductance			16
	Sulfate		-9	
MW-12	Chemical Oxygen Demand			15
	Chloride		-10	
	Iron		12	
	pH		-1	
	Specific Conductance		6	
	Sulfate		-12	
MW-13	Chemical Oxygen Demand		5	
	Iron		-4	
	Nitrogen, Ammonia			20
	pH		-5	
	Specific Conductance			18
MW-14	Chemical Oxygen Demand		7	
	Chloride		2	
	Iron		-4	
	pH		-10	
	Specific Conductance			18

Monitoring Well	Constituent Name	Calculated Statistic		
		Decreasing Trend	Stable Trend	Increasing Trend
MW-15	Chemical Oxygen Demand		-3	
	Chloride		2	
	Nitrogen, Ammonia		7	
	pH	-16		
	Specific Conductance			24
	Sulfate			18
MW-16	Chemical Oxygen Demand		6	
	Chloride		2	
	Iron		3	
	pH		-12	
	Specific Conductance			18
MW-19	Chemical Oxygen Demand		8	
	Chloride		8	
	Iron		0	
	Nitrogen, Ammonia		12	
	pH	-13		
	Specific Conductance		8	