

November 17, 2025
File No. 27225013.00

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

Subject: 2025 Annual Water Quality Report
2025 Leachate Control System Performance Evaluation Report
Climax Molybdenum Industrial Landfill
Permit No. 56-SDP-06-80P

Dear Brain:

SCS Engineers has completed the required groundwater monitoring and statistical evaluation at the Climax Molybdenum Industrial Landfill (Landfill) for the 2025 calendar year. Our services were performed in general accordance with Iowa Administrative Code (IAC) 567-115.26 and the landfill permit requirements for implementation of the Hydrologic Monitoring System Plan (HMSP). Please find enclosed a copy of the 2025 Annual Water Quality Report and 2025 Leachate Control System Performance Evaluation Report for the Landfill.

Additionally, an evaluation of the leachate control system for the site is included in accordance with IAC 567-115.26. The 2025 Leachate Control System Performance Evaluation Report for the site is included as **Appendix F** to the Annual Water Quality Report.

If you have any questions about these reports, please contact us as noted below.

Sincerely,



Semir Omerovic
Technical Associate
SCS Engineers
somerovic@scsengineers.com
(515) 988-3237



Kevin Jensen
Project Manager
SCS Engineers
kjensen@scsengineers.com
(515) 368-3155

SO/KAJ/NO/TCB

cc: David Caskey, Climax Molybdenum Company
Danae Rutherford, Climax Molybdenum Company
Jessi Woods, Climax Molybdenum Company
Libby Boyer, Climax Molybdenum Company



2025 Annual Water Quality Report and Leachate Control System Performance Evaluation Report

Climax Molybdenum Industrial Landfill
Solid Waste Permit No. 56-SDP-06-80P

Prepared for:

Climax Molybdenum Company

SCS ENGINEERS

27225013.00 | November 2025

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

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CERTIFICATION

Prepared by: Semir Omerovic

Date: 11/17/2025

Typed: Semir Omerovic

Reviewed by: Kevin Jensen

Date: 11/17/2025

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>Timothy C. Buelow, P.E.</u> Date: <u>11/17/2025</u>
	License No. 14445
	My license renewal date is December 31, 2025.
	Pages or sheets covered by this seal: All except Appendix B-1.

EXECUTIVE SUMMARY

ES.1 PERIOD OF REPORT COVERAGE

SCS Engineers (SCS), on behalf of the Climax Molybdenum Company (CMC), has completed the required groundwater sampling for the Climax Molybdenum Company Industrial 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 spring and fall 2025 semiannual sampling events. This AWQR was prepared in accordance with the requirements of Iowa Administrative Code (IAC) 567-115.26, 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: None.

ES.3 SITE STATUS AND APPLICABLE RULES

- Landfill Status: Active, Operating Permit.
- Types of waste accepted: Industrial (gypsum waste).
- Applicable IAC rules: 567-115.

ES.4 COMMENTS

The following summarizes points of special emphasis:

- Concentrations of the analyzed parameters in groundwater at the Landfill continue to demonstrate generally stable concentrations. The total number of control limit exceedances based on 2025 sampling results were nearly equal to the total number of control limit exceedances based on the 2024 sampling results. As discussed in Section 5.1, concentrations of chloride, lithium, sodium, specific conductance, strontium, and sulfate in monitoring well MW-21 have notably decreased since the repair activities were performed to the leachate collection system in June 2021 (Doc # 101625). Additionally, significantly decreasing trends for chloride, sodium, and strontium measured at a 99% confidence level were found in monitoring well MW-21. Groundwater quality at monitoring well MW-21 will continue to be evaluated in future reports.
- In response to Item 2. of the DNR comment letter for the 2024 AWQR dated February 3, 2025 (Doc # 112167), three quarterly groundwater samples were obtained from monitoring well TW-3 prior to the construction of the Phase 4-6 cells. A fourth quarterly sample will be collected in the 4th quarter of 2025 in accordance with Special Provisions 4.d. & 4.e. of the Landfill permit.
- In response to Item 3. of the DNR comment letter for the 2024 AWQR dated February 3, 2025 (Doc # 112167), inspection via camera and thorough cleaning of the leachate drainage lines were performed in spring and summer of 2025. These cleaning activities

correlated with leachate head level measurements at LPZ-1 through LPZ-4 that were within previous historical measurements, as shown in Appendix F. Additionally, leachate line repair was conducted in October 2025 to fix a partially collapsed section of the active cell east drainage line that was discovered during the 2025 inspection and cleaning events.

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1.0 ACRONYMS/ABBREVIATIONS

AL = Action Level
CCV = Continuing Calibration Verification
CL = Control Limit - Mean plus Two Standard Deviations
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 Climax Molybdenum Company Industrial Landfill (Landfill) is depicted in **Figure 1**, Approved Monitoring Network. The Landfill property is located on a 244-acre plot of land west of Iowa Highway 394, 2 miles north of Argyle, Iowa. The legal description is as follows: Northwest $\frac{1}{4}$ and West $\frac{1}{2}$ of the Northeast $\frac{1}{4}$ and South 150 feet of the East $\frac{1}{2}$ of the Northeast $\frac{1}{4}$ of Section 32, Township 67 North, Range 6 West, Lee County, Iowa.

2.2 FACILITY

This Landfill has been a permitted facility since 1980 and has been actively receiving industrial gypsum waste since that time on a periodic basis. According to Janice Calvert, Lee County Assessor, prior to CMC purchasing the Landfill property in 1980, the area was used for agricultural purposes. No county zoning exists within Lee County.

2.3 GEOLOGY OF THE SITE

The following information pertaining to this section was obtained from the Hydrogeologic Investigation Report and Hydrologic Monitoring System Plan prepared by Green Environmental Service, Inc., February 1992:

The uppermost material is a layer of clayey silt with minor amounts of sand. This material is windblown silt and sand, called loess. It blankets the hilltops to a maximum depth of 13.5 feet. Silty materials that are probably loess were reported at B-4, M-1, MW-2, MW-3, and MW-6. Silty materials at MW-4 and MW-5 may be loess or colluvium (slopewash). Silty alluvium occurs in the valleys, and was encountered at B-1, B-1A, B-2, MW-1, MW-12, and MW-14. A six-inch layer of sand and gravel was encountered in the base of the alluvium at MW-12. Three feet of sand occurred below silt in the alluvium at B-1. The next lower material encountered in the borings is glacial till. The till is a very sandy, clayey silt, trace (<10%) gravel. Material in the gravel size range includes minerals such as quartz; also igneous, sedimentary, and metamorphic rock fragments. A minimum of 80 to 85 feet of till occur below the waste disposal area. Small, isolated sand lenses were encountered in the till in borings M-1, MW-1, and MW-2. None of the other borings encountered sand lenses. Shale bedrock was encountered at 504 feet MSL in MW-1, 526 feet MSL in MW-2, and 519 feet MSL in MW-6. MW-1 penetrated 17 feet of shale (probably of the Warsaw Shale), then encountered 11 feet of limestone, 1.5 feet of shale, and 17.5 feet of limestone. MW-1 was screened in silty material above the shale. MW-2 through MW-6 are screened in sands and silts above the shale.

Southwest and northeast of the landfill, the bedrock rises to an elevation of 600 feet MSL and consists of the Meramec Series (Upper Mississippian aquifer). Thus, the landfill property is situated over the midslope region of the buried landscape, within a broad channel, near its confluence with the Gordon Channel. The Kinderhook Series is the upper unit east of the landfill, along the channel axis. The Keokuk and Burlington limestones and the upper part of the Kinderhook Series comprise the Lower Mississippian aquifer.

2.4 HYDROLOGY OF THE SITE

The following information pertaining to this section was obtained from the Hydrogeologic Investigation Report and Hydrologic Monitoring System Plan prepared by Green Environmental Service, Inc., February 1992:

At MW-11, the alluvium is saturated. Since the water level in MW-12 (which is screened deeper, in the till) is higher than in MW-11, the till is saturated throughout. In other words, the saturated zone in the alluvium is not perched. MW-13 is screened below the alluvium, but the water level has stabilized at a level above the alluvium/till contact. Therefore, the saturated zone in the alluvium is not perched. No perched saturated zone was observed in the immediate vicinity of the waste disposal area. Head differences were calculated between the shallow and mid-level wells and between the mid-level and deep wells of the triple clusters. These were all downward. One gradient was calculated for each double cluster. Flow was upward at the double clusters. The horizontal hydraulic gradients vary from 0.016 to 0.080, and the shallow vertical gradients vary from 0.008 to 0.031, while the deeper vertical gradients were 0.255 and 0.467. Vertical flow rates downward through the deep till are 2.1×10^{-5} and 5.3×10^{-5} ft^3/d . (The other vertical values are intermediate between the horizontal values and deep unweathered till values). Thus, the groundwater is more likely to flow horizontally in the shallow sediments than vertically downward through the unweathered till.

Transmissivity is defined as the hydraulic conductivity multiplied by the aquifer thickness. For unconfined aquifers, only the saturated thickness is considered. Transmissivities are often reported for aquitards, however, the hydraulic conductivity has more significance. The transmissivities have been calculated using in-situ conductivities. The transmissivities vary from 0.005 to 2.15 ft^2/d . The lowest values are in deep and mid-level wells screened in till. Good aquifers for domestic use should have a transmissivity of 1,400 ft^2/d . Aquifers used for municipal water supply, industry, or irrigation should have a transmissivity of 14,000 ft^2/d or higher. Thus, none of the materials screened at the landfill would serve even as a domestic water supply aquifer.

Flow tends to be nearly horizontal in materials with high conductivity and nearly vertical in materials with low conductivity. There would be a sharp refraction at the contact of till, loess, or alluvium over glacial till. The larger volume of water would flow laterally in the overlying material, and a smaller volume would move downward. The decrease of hydraulic conductivity downward within the glacial till is gradual, as root holes, animal burrows, fractures, etc. die out with depth. Instead of a sharp refraction, the flow lines and equipotential lines would bend gradually. The net result is the same, with flow lines at a shallow angle in materials with higher hydraulic conductivity and nearly vertical in materials with lower conductivity. This scenario, derived from consideration of groundwater flow theory, is observed at the landfill. The shallow flow pattern is nearly parallel to or converging toward the water table or upward. Any leakage from the base of the landfill would be captured in the upper flow pattern.

The deeper part of the glacial till is an aquitard. This is shown by the low in-situ hydraulic conductivities, vertical flow rates, and transmissivities. The steep vertical flow paths also show that the deep till is an aquitard. Over 80 feet of till protect the underlying buried channel and bedrock aquifers. None of the materials present at the site would qualify as aquifers for water supply wells because of low transmissivities.

However, the shallow sediments are 100-fold more conductive to groundwater flow than the deep till. These shallow sediments include alluvium and shallow till. The higher in-situ hydraulic conductivities and horizontal flow rates show that these materials constitute the uppermost aquifer. The shallow vertical flow paths also show that the shallow sediments function as an aquifer. Small, isolated sand lenses are not aquifers.

3.0 FIGURES DISCUSSION

The following figures are attached.

3.1 FIGURE 1 – APPROVED MONITORING NETWORK

The Landfill property and hydrological monitoring system plan (HMSP) network are depicted in **Figure 1**. **Figure 1** indicates the locations of each monitoring well.

3.2 FIGURE 2 – GROUNDWATER CONTOURS

A groundwater contour map based on water levels measured in the water table aquifer during the August 6, 2025 semiannual groundwater sampling event is included as **Figure 2**. **Figure 2** indicates a generally southerly flow direction. Leachate elevations are shown on the figure but were not included in the contour development. The leachate elevations are slightly higher than the interpolated groundwater contours, however, a southerly flow direction is maintained.

4.0 QA/QC SUMMARY

Date indicates the date(s) of sampling.

4.1 APRIL 1, 2025 (2025 SPRING 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**.

4.2 AUGUST 6, 2025 (2025 FALL 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 DATA EVALUATION

Statistical evaluation in accordance with the requirements of IAC 567-115.26 was conducted for the groundwater analytical data collected during the April and August 2025 semiannual sampling events. The statistical evaluation for samples collected during the 2025 semiannual sampling events is located in **Appendix D** of this report.

5.1 DATA EVALUATION

Groundwater monitoring for the Landfill consists of samples from two background monitoring wells located on the northeast and northwest corners of the Landfill and from six compliance monitoring wells, three located along the southern border of the closed landfill cell, one located along the southern border of the active cell, one located adjacent to the leachate collection lift station, and one located southeast of the leachate storage lagoon.

There were 21 control limit exceedances detected based on spring and fall 2025 sampling results as listed in Table 1 compared to 20 control limit exceedances detected based on spring and fall 2024 sampling results reported in the 2024 AWQR, not counting total suspended solids. The control limit exceedances measured in monitoring well MW-11 may have been influenced by total suspended solids (TSS) in the sample.

Exceedances of action or advisory levels were largely associated with lithium and sodium as listed in Table 9. The action or advisory levels for lithium, manganese, and sodium were also exceeded in background monitoring well MW-7 and the action or advisory levels for lithium and sodium were exceeded in background monitoring well MW-18R based on a review of concentrations listed in the Summary of Groundwater Chemistry in **Appendix C** indicating natural occurrence of these constituents in local groundwater. These three constituents have generally exceeded the regulatory action or advisory levels established for this Landfill at most monitoring wells since sampling for these constituents began. The detection of these constituents above action or advisory levels in the background monitoring wells indicates that these constituents may be naturally occurring at these levels at the site.

Groundwater quality at monitoring well MW-21 has continued to demonstrate stability since modifications were made to the leachate collection system in June 2021 (Doc # 101625). Concentrations of chloride, lithium, sodium, specific conductance, strontium, and sulfate measured at MW-21 during both 2025 sampling events were below or comparable to concentrations measured in both 2024 sampling events and were well below the more recent maximum concentrations measured in 2020 or spring 2021 before the modifications were made. Selenium has recently been detected slightly above the reporting limit at monitoring well MW-21; however, the concentrations measured have been well below the action limit for selenium and below the concentrations measured in background monitoring well MW-18R.

5.2 TRENDING IN MONITORING WELLS

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

Monitoring Point	Constituent	Trend
MW-7 (bg)	Sodium	Decreasing
MW-7 (bg)	Sulfate	Increasing
MW-16	COD	Decreasing
MW-17	Specific Conductance	Increasing
MW-18R (bg)	Strontium	Decreasing
MW-21	Chloride	Decreasing
MW-21	Sodium	Decreasing
MW-21	Strontium	Decreasing

(bg) indicates a background monitoring point.

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				
Monitoring Well	Decreasing Trends	Stable Trends	Increasing Trends	Number of Constituents Analyzed
MW-7 (bg)	18.18%	72.73%	9.09%	11
MW-11	8.33%	50.00%	41.67%	12
MW-15	0.00%	90.00%	10.00%	10
MW-16	36.36%	36.36%	27.27%	11
MW-17	15.38%	61.54%	23.08%	13
MW-18R (bg)	27.27%	45.45%	27.27%	11
MW-21	66.67%	16.67%	16.67%	12
Site Wide	25.00%	52.50%	22.50%	80

(bg) 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. There were 18 monitoring well/constituent pairs with generally increasing trends. The monitoring well/constituent pairs with increasing trends are discussed in the following table.

Monitoring Well	Constituent Name	Comments
MW-7 (bg)	Sulfate	Based on eight actual detections. Highest concentration of 108 mg/L measured in spring 2025.
MW-11	Arsenic	Based on eight actual detections. Highest concentration of 0.0127 mg/L measured in spring 2025.

Monitoring Well	Constituent Name	Comments
MW-11	COD	Based on eight actual detections. Highest concentration of 232 mg/L measured in fall 2025.
MW-11	Chloride	Based on eight actual detections. Highest concentration of 22.7 mg/L measured in fall 2023.
MW-11	Iron	Based on eight actual detections. Highest concentration of 55.1 mg/L measured in fall 2025. These detections fall below the historical maximum of 58 mg/L measured in fall 2016.
MW-11	pH	Based on eight measurements. Range of measurements between 6.30 – 6.63 S.U. Highest measurement of 6.63 S.U. measured in spring 2025.
MW-15	Sulfate	Based on eight actual detections. Highest concentration of 148 mg/L measured in spring 2025.
MW-16	Chloride	Based on eight actual detections. Highest concentration of 7.94 mg/L measured in spring 2025.
MW-16	Specific Conductance	Based on eight measurements. Range of measurements between 1417.5 – 1619.2 μ S/cm. Highest concentration of 1619.2 μ S/cm measured in spring 2024.
MW-16	Sulfate	Based on eight actual detections. Highest concentration of 477 mg/L measured in spring 2024.
MW-17	Chloride	Based on eight actual detections. Highest concentration of 51.7 mg/L measured in spring 2025.
MW-17	pH	Based on eight measurements. Range of measurements between 6.79 – 7.11 S.U. Highest measurement of 7.11 S.U. measured in fall 2024.
MW-17	Specific Conductance	Based on eight measurements. Range of measurements between 1265.8 – 1462.8 μ S/cm. Highest concentration of 1462.8 μ S/cm measured in fall 2025.
MW-18R (bg)	Chloride	Based on eight actual detections. Highest concentration of 9.07 mg/L measured in fall 2024.
MW-18R (bg)	Iron	Based on six non-detections and two actual detections. Highest concentration of 0.405 mg/L measured in fall 2025. These concentrations fall below the historical maximum of 9.6 mg/L measured in 2015.
MW-18R (bg)	pH	Based on eight measurements. Range of measurements between 6.83 – 7.07 S.U. Highest measurement of 7.07 S.U. measured in spring 2025.
MW-21	pH	Based on eight measurements. Range of measurements between 6.48 – 6.67 S.U. Highest measurement of 6.67 S.U. measured in fall 2025, spring 2025, and spring 2023.

Monitoring Well	Constituent Name	Comments
MW-21	Selenium	Based on four actual detections, three non-detection, and one j-flag detection. Highest concentration of 0.0254 mg/L measured in fall 2025. These concentrations fall below the Maximum Containment Level of 0.05 mg/L.

(bg) indicates a background monitoring point.

A total of 14 increasing constituent trends and four increasing pH trends were measured at an 80% confidence level in 2025 compared to 5 increasing trends measured at an 80% confidence level in 2024. It should be noted that four of the increasing trends measured at an 80% confidence level in 2025 were found in background monitoring wells. Monitoring well MW-11 exhibited a larger number of increasing trends, however, review of the concentrations of the parameters with increasing trends, they generally significantly exceed measured leachate concentrations, therefore, the increasing concentrations may not be related to the waste mass.

6.0 RECOMMENDATIONS

6.1 SITE IMPACT ON GROUNDWATER

The 2025 groundwater monitoring data for the Climax Molybdenum Industrial Landfill indicates that groundwater quality remains stable or is improving at most monitoring locations. Statistically significant decreasing trends in chloride, sodium, and strontium at MW-21 demonstrate the effectiveness of the 2021 leachate system repairs. While some parameters continue to exceed action levels, these are also present in background wells, indicating a natural occurrence in local groundwater. The current monitoring program appears appropriate and will continue with ongoing evaluation to ensure continued protection of groundwater.

6.2 PROPOSED MONITORING

The groundwater monitoring program is summarized in **Table 1**. It is recommended that sampling continue for calendar year 2026 as summarized in **Table 2**.

6.3 PROPOSED MONITORING WELL CHANGES

Monitoring well performance is summarized in **Table 4**. No proposed changes to the 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
Climax Molybdenum Company Industrial Landfill
Permit No. 56-SDP-06-80P

Monitoring Well	Formation ⁽¹⁾	Current Monitoring Program	Change for Next Sampling Event	Control Limit Exceedances	Total Number of Samples in Each Monitoring Program Since January 1, 2018		
					Routine	Supplemental	Remedial Action
MW-7 (background)	Yellow-Brown Till	Background	None	-	16	-	-
MW-11	Fill over Gray Alluvium	Detection	None	Arsenic, COD, Iron, Manganese, Nitrogen, Ammonia, pH, Sodium	16	-	-
MW-15	Sandy/Clay/Silt - Yellow-Brown Till	Detection	None	None	16	-	-
MW-16	Fill over Gray Alluvium over Yellow Brown Till	Detection	None	Lithium, pH, Specific Conductance, Strontium, Sulfate	16	-	-
MW-17	Boring Log Not Found	Detection	None	Lithium, COD, Nitrogen-Ammonia, Specific Conductance, Sulfate	16	-	-
MW-18R (background)	Brown Silt/Sand over Yellow Brown Till	Background	None	-	16	-	-
MW-21	Brown Sandy/Clay, Trace Sand/Gravel	Detection	None	Chloride, Sodium, Specific Conductance, Sulfate	16	-	-
TW-3	Sandy/Clay/Silt - Light brown	Detection	None	None	3	-	-

Notes:

⁽¹⁾ Obtained from screened interval on boring logs.

Table 2
Monitoring Program Implementation Schedule
2025 Annual Water Quality Report
Climax Molybdenum Company Industrial Landfill
Permit No. 56-SDP-06-80P

Monitoring Well	Recent Sampling Dates and Constituents			Upcoming Sampling Dates and Constituents		
	2/26/2025	4/1/2025	8/6/2025	Q4 2025 Sampling Event	2026 Spring Event	2026 Fall Event
MW-7	-	115.26(4)"e" parameters, supplemental parameters, TSS	115.26(4)"e" parameters, supplemental parameters, TSS	-	115.26(4)"e" parameters, supplemental parameters, TSS	115.26(4)"e" parameters, supplemental parameters, TSS
MW-11	-	115.26(4)"e" parameters, supplemental parameters, TSS	115.26(4)"e" parameters, supplemental parameters, TSS	-	115.26(4)"e" parameters, supplemental parameters, TSS	115.26(4)"e" parameters, supplemental parameters, TSS
MW-15	-	115.26(4)"e" parameters, supplemental parameters, TSS	115.26(4)"e" parameters, supplemental parameters, TSS	-	115.26(4)"e" parameters, supplemental parameters, TSS	115.26(4)"e" parameters, supplemental parameters, TSS
MW-16	-	115.26(4)"e" parameters, supplemental parameters, TSS	115.26(4)"e" parameters, supplemental parameters, TSS	-	115.26(4)"e" parameters, supplemental parameters, TSS	115.26(4)"e" parameters, supplemental parameters, TSS
MW-17	-	115.26(4)"e" parameters, supplemental parameters, TSS	115.26(4)"e" parameters, supplemental parameters, TSS	-	115.26(4)"e" parameters, supplemental parameters, TSS	115.26(4)"e" parameters, supplemental parameters, TSS
MW-18R	-	115.26(4)"e" parameters, supplemental parameters, TSS	115.26(4)"e" parameters, supplemental parameters, TSS	-	115.26(4)"e" parameters, supplemental parameters, TSS	115.26(4)"e" parameters, supplemental parameters, TSS
MW-21	-	115.26(4)"e" parameters, supplemental parameters, TSS	115.26(4)"e" parameters, supplemental parameters, TSS	-	115.26(4)"e" parameters, supplemental parameters, TSS	115.26(4)"e" parameters, supplemental parameters, TSS
TW-3	115.26(4)"e" parameters, supplemental parameters, TSS	115.26(4)"e" parameters, supplemental parameters, TSS	115.26(4)"e" parameters, supplemental parameters, TSS	115.26(4)"e" parameters, supplemental parameters, TSS	115.26(4)"e" parameters, supplemental parameters, TSS	115.26(4)"e" parameters, supplemental parameters, TSS

Notes: Supplemental parameters include concentrations of total arsenic, cadmium, iron, lithium, manganese, molybdenum, selenium, sodium, strontium, and sulfate.
TSS – Total Suspended Solids.

Table 3
Monitoring Well Maintenance and Performance Re-Evaluation Schedule
2025 Annual Water Quality Report
Climax Molybdenum Company Industrial Landfill
Permit No. 56-SDP-06-80P

Compliance with:	2023	2024	2025	2026
567 IAC 114.21(2)"a" high and low water levels (annually)	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" well recharge rates ⁽¹⁾	Completed	-	Included	-

Notes:

⁽¹⁾ In-situ permeability testing was replaced with biennial well recharge rate evaluation in DNR correspondence dated April 29, 2019 (Doc# 95000).

Table 4
Monitoring Well Performance and Maintenance Summary
2025 Annual Water Quality Report
Climax Molybdenum Company Industrial Landfill
Permit No. 56-SDP-06-80P

Well	Top of Casing	Top of Screen	Total Depth		Date of Measurements	Maximum Depth	Initial Flow Rate (L/min)*	Recent Flow Rate (L/min)	
					8/6/2025			4/11/2017	8/6/2025 % Change
MW-7	669.6	654.1	30.1	Groundwater Level (ft)	11.01	0.5	0.161	0.175	9%
				Groundwater Elevation (Ft MSL)	658.62				
				Measured Well Depth (ft)	30.60				
				Submerged screen	Y				
MW-11	659.6	637.8	32.5	Groundwater Level (ft)	20.95	-0.2	0.125	0.183	47%
				Groundwater Elevation (Ft MSL)	638.63				
				Measured Well Depth (ft)	32.30				
				Submerged screen	Y				
MW-15	659.5	649.5	25.7	Groundwater Level (ft)	15.25	-0.5	0.139	0.167	20%
				Groundwater Elevation (Ft MSL)	644.21				
				Measured Well Depth (ft)	25.20				
				Submerged screen	N				
MW-16	659.3	644.6	30.5	Groundwater Level (ft)	20.28	0.0	0.119	0.167	40%
				Groundwater Elevation (Ft MSL)	639.04				
				Measured Well Depth (ft)	30.50				
				Submerged screen	N				
MW-17	664.3	627.3	47.0	Groundwater Level (ft)	29.50	0.1	0.150	0.158	5%
				Groundwater Elevation (Ft MSL)	634.80				
				Measured Well Depth (ft)	47.10				
				Submerged screen	Y				
MW-18R	686.8	663.7	43.3	Groundwater Level (ft)	33.73	0.0	0.175	0.200	14%
				Groundwater Elevation (Ft MSL)	653.03				
				Measured Well Depth (ft)	43.30				
				Submerged screen	N				
MW-21	660.7	639.2	31.5	Groundwater Level (ft)	16.35	-1.4	0.104	0.175	68%
				Groundwater Elevation (Ft MSL)	644.31				
				Measured Well Depth (ft)	30.10				
				Submerged screen	Y				
TW-3	661.1	643.7	25.5	Groundwater Level (ft)	12.00	-0.4	0.128	0.167	30%
				Groundwater Elevation (Ft MSL)	649.10				
				Measured Well Depth (ft)	25.10				
				Submerged screen	Y				

NM - Not Measured

Comments:

- 1) Measured well depths were within 1.0 foot of the installed depth with the following exceptions:

MW-21: This monitoring well measured 1.4 ft shallower than when originally installed; however, since the monitoring well produced sufficient groundwater for sampling it is likely that the well is functioning properly. It should be noted that during the 2025 spring sampling event well depth was measured at 32.3 ft.

Table 5
Background and GWPS Summary
2025 Annual Water Quality Report
Climax Molybdenum Company Industrial Landfill
Permit No. 56-SDP-06-80P

Interwell Background/GWPS (MW-7, MW-18R)

Constituent	Units	Sampling Events	Detections	Control Limit	Statistical Test	Action Level	Source
Inorganics							
Arsenic	mg/L	45	16	0.0057	M+2SD	0.01 mg/L	MCL/SWS
Cadmium	mg/L	45	9	0.010	M+2SD	0.005 mg/L	MCL/SWS
Chemical Oxygen Demand	mg/L	130	93	20.9	M+2SD	-	-
Chloride	mg/L	136	136	42.9	M+2SD	-	-
Iron	mg/L	46	34	6.44	M+2SD	-	-
Lithium	mg/L	45	46	0.037	M+2SD	0.014 mg/L	SWS
Manganese	mg/L	45	31	3.24	M+2SD	0.3 mg/L	HAL/SWS
Molybdenum	mg/L	46	25	0.028	M+2SD	0.04 mg/L	HAL/SWS
Nitrogen, Ammonia	mg/L	136	52	0.306	M+2SD	30.0 mg/L	HAL
pH	S.U.	135	135	6.44 - 7.45	M+/-2SD	-	-
Selenium	mg/L	46	27	0.099	M+2SD	0.05 mg/L	MCL/SWS
Sodium	mg/L	46	47	76.0	M+2SD	20.0 mg/L	DWA
Specific Conductance	µS/cm	135	135	1421	M+2SD	-	-
Strontium	mg/L	45	46	0.772	M+2SD	4.0 mg/L	HAL/SWS
Sulfate	mg/L	130	131	222.9	M+2SD	-	-

Notes: None.

Acronyms/Abbreviations:

RL = Reporting Limit

GWPS = Groundwater Protection Standard

SSS = Site-Specific GWPS

SWS = Statewide Standard

SD = Standard Deviation

MCL = EPA Maximum Contaminant Level

PL = Prediction Limits

HAL = Health Advisory Level

DWA = Drinking Water Advisory

Comments:

1) **Water quality results and effectiveness of the statistical data evaluation criteria:** Statistical evaluations consist of control limits which consist of the upgradient mean plus two standard deviations (plus and minus two standard deviations for pH).

2) **Changes to the previous statistical method during reporting period:** None.

Table 6
Summary of Well/Detected Constituent Pairs With No Immediately Preceding Control Limit Exceedances
2025 Annual Water Quality Report
Climax Molybdenum Company Industrial Landfill
Permit No. 56-SDP-06-80P

2025 Spring Sampling Event

Well	Constituent	Units	Result	Background Standard
MW-16	Lithium	mg/L	0.136	0.037
	Strontium	mg/L	1.34	0.772

2025 Fall Sampling Event

Well	Constituent	Units	Result	Background Standard
MW-11	pH	S.U.	6.41	6.44 - 7.45
MW-17	COD	mg/L	23.25	20.9
	Nitrogen-Ammonia	mg/L	2.115	0.306
	Specific Conductance	µS/cm	1463	1421

Note: Table includes control limit exceedance identified during the 2025 sampling events that were not identified as a control limit exceedances in the previous reporting period.

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.

Table 7
Summary Table of Ongoing and Newly Identified Control Limit Exceedances
2025 Annual Water Quality Report
Climax Molybdenum Company Industrial Landfill
Permit No. 56-SDP-06-80P

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.

Well	Constituent	Units	Most Recent Result	Background Standard	Action Level/ Statewide Standard
MW-11	Arsenic	mg/L	0.0106	0.0057	0.01
	Chemical Oxygen Demand	mg/L	232	20.9	-
	Iron	mg/L	55.1	6.44	-
	Manganese	mg/L	3.62	3.24	0.3
	Nitrogen-Ammonia	mg/L	8.59	0.306	30
	pH	S.U.	6.41	6.44 - 7.45	-
	Sodium	mg/L	71.7	76.0	-
MW-16	Lithium	mg/L	0.034	0.037	0.014
	pH	S.U.	6.40	6.44 - 7.45	-
	Specific Conductance	µS/cm	1594	1421	-
	Strontium	mg/L	0.619	0.772	4
	Sulfate	mg/L	458	222.9	-
MW-17	Lithium	mg/L	0.066	0.037	0.014
	Chemical Oxygen Demand	mg/L	23.25	20.9	-
	Nitrogen-Ammonia	mg/L	2.115	0.306	30
	Specific Conductance	µS/cm	1463	1421	-
	Sulfate	mg/L	303.5	222.9	-
MW-21	Chloride	mg/L	21.3	42.9	-
	Sodium	mg/L	69.5	76	20
	Specific Conductance	µS/cm	1465	1421	-
	Sulfate	mg/L	319	222.9	-

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

Table 8
Summary of Groundwater Chemistry
2025 Annual Water Quality Report
Climax Molybdenum Company Industrial Landfill
Permit No. 56-SDP-06-80P

The Summary of Groundwater Chemistry is located in Appendix C.

Table 9
Historical Control Limit & Action Level Exceedances
2025 Annual Water Quality Report
Climax Molybdenum Company Industrial Landfill
Permit No. 56-SDP-06-80P

Key

	Control Limit Exceedance
X	Action Level Exceedance

Well	Constituent	2022	2023	2024	2025
MW-11	Arsenic			X	X
	Chemical Oxygen Demand				
	Chloride				
	Iron				
	Manganese	X	X	X	X
	Nitrogen-Ammonia				
	pH				
	Sodium	X	X	X	X
MW-15	Specific Conductance				
	Lithium	X	X	X	X
MW-16	Sodium	X	X	X	X
	Lithium	X	X	X	X
	Manganese	X			
	pH				
	Sodium	X	X	X	X
	Specific Conductance				
	Strontium				
MW-17	Sulfate				
	Chemical Oxygen Demand				
	Lithium	X	X	X	X
	Manganese	X	X	X	X
	Nitrogen-Ammonia				
	Sodium	X	X	X	X
MW-21	Specific Conductance				
	Sulfate				
	Chloride				
	Lithium	X	X	X	X
	Manganese	X			
	Sodium	X	X	X	X
	Specific Conductance				
TW-3	Strontium				
	Sulfate				
TW-3	Lithium	NS	NS	NS	X
	Sodium	NS	NS	NS	X

Comments: Action level exceedances for background monitoring wells not included.

Table 10
Groundwater Quality Assessment Plan Trend Analysis
2025 Annual Water Quality Report
Climax Molybdenum Company Industrial Landfill
Permit No. 56-SDP-06-80P

Monitoring Well	Constituent Name	Calculated Statistic		
		Decreasing Trend	Stable Trend	Increasing Trend
MW-21	Cadmium	-14		
	Chemical Oxygen Demand		-8	
	Chloride	-22		
	Lithium	-13		
	Manganese	-14		
	Molybdenum		7	
	pH			16
	Selenium			21
	Sodium	-27		
	Specific Conductance	-16		
	Strontium	-22		
	Sulfate	-19		

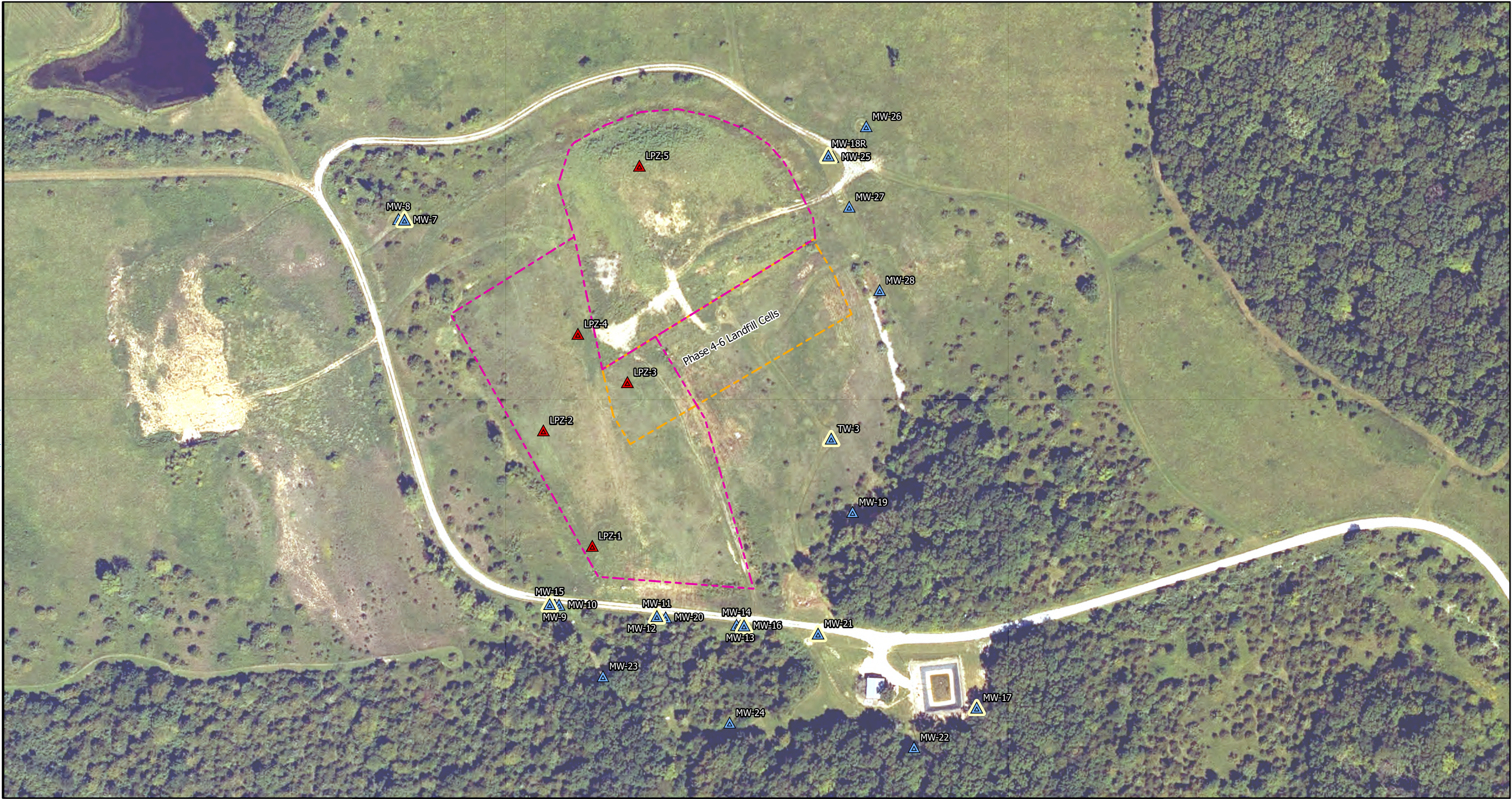
Notes:

- 1) In accordance with the DNR letter dated December 2, 2021 (Doc # 101799), trend analyses for MW-21 have been included to aid in the evaluation of the assessment efforts performed in June 2021.
- 2) Trending was evaluated using Mann-Kendall analysis at 80% confidence ($\alpha=0.2$) for the entire historical dataset.

Figures

- 1 Approved Monitoring Network
- 2 Groundwater Contours

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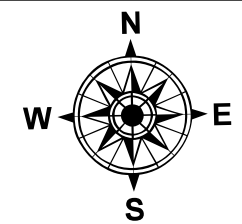


Approved Monitoring Network

Legend

- | | |
|--|-----------------------------------|
| HMSP Monitoring Well | Approximate Waste Boundary |
| Approximate Monitoring Well Location | Approximate Future Waste Boundary |
| Approximate Leachate Monitoring Location | Approximate Property Boundary |

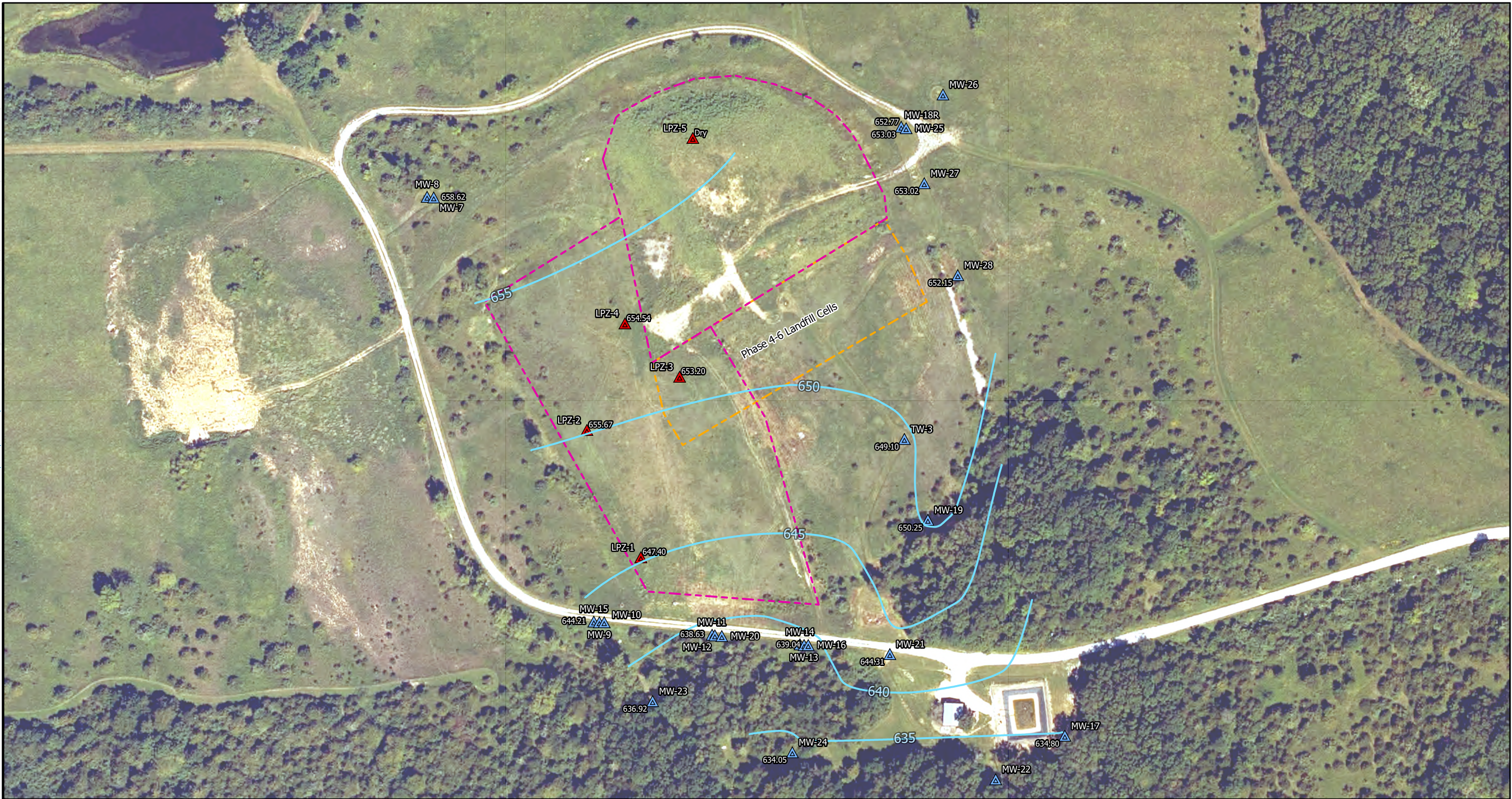
Climax Molybdenum
Industrial Landfill
Argyle, Iowa
Project No: 27225013.00
Drawing Date: November
2025



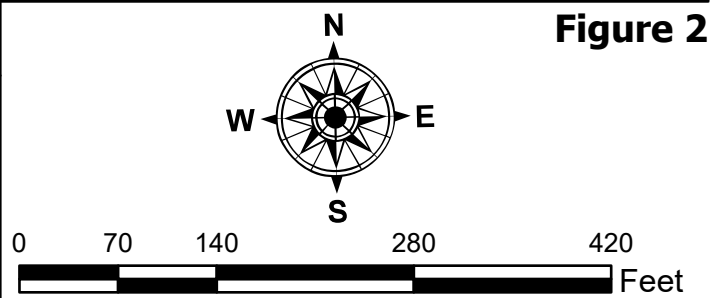
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Feet

Figure 1

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Groundwater Contours			
Legend		Climax Molybdenum Industrial Landfill Argyle, Iowa Project No: 27225013.00 Drawing Date: November 2025	
Approximate Groundwater Contours Based on Field Measurements Taken August 6, 2025	Approximate Monitoring Well Location	Approximate Waste Boundary	
	Approximate Leachate Monitoring Location	Approximate Future Waste Boundary	
		Approximate Property Boundary	



ESRI, COGNIS, USGS, Sources: Esri, TomTom, Garmin, FRC, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, USDA NRIS, Iowa State University GIS Facility



Appendix A

Field Sampling Forms

FORM FOR GROUNDWATER SAMPLING

Project: Climax Molybdenum Industrial Landfill	
Monitoring Well/Piezometer ID: TW-3	Date: 2/26/2025
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):	24.9
Initial Static Water Level (feet):	14.11
Initial Groundwater Elevation (ft-amsl):	646.99
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)	
1:55 PM	Purging start time.						
1:58 PM	12.8	4.4	937.3	7.37	48.8	19.1	
2:01 PM	12.6	3.9	935.3	7.37	58.2	17.6	
2:04 PM	12.5	3.9	936.4	7.37	63.0	20.8	
2:07 PM	12.5	3.8	935.7	7.36	65.8	18.8	
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: Climax Molybdenum Landfill	
Monitoring Well/Piezometer ID: MW-11	Date: 4/1/2025
Gradient: Down	Sampler: Konner Roth

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? Yes	
Litter/Standing Water? No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet):	32.2
Initial Static Water Level (feet):	20.47
Initial Groundwater Elevation (ft-amsl):	639.11
Equipment Used:	Other

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
12:04 PM	Purging start time.						
12:07 PM	11.7	0.4	1406.9	6.62	-30.6	111.2	
12:10 PM	12.5	0.2	1394.6	6.62	-47.1	129.4	
12:13 PM	12.3	0.1	1383.0	6.63	-52.2	109.6	
12:16 PM	12.4	<0.1	1385.6	6.63	-56.5	97.0	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	2.6
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	216.67

D. WELL MAINTENANCE

Does the well require any future maintenance? No	
If yes, explain:	
Additional Comments:	Color: Greyish, oily, cloudy - Odor: Trash SS pump used at lowest possible speed

FORM FOR GROUNDWATER SAMPLING

Project: Climax Molybdenum Landfill							
Monitoring Well/Piezometer ID: MW-15				Date: 4/1/2025			
Gradient: Down				Sampler: Konner Roth			
A. MW/PIEZOMETER CONDITIONS							
Well/Piezometer Capped?		Yes					
Litter/Standing Water?		No					
B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)							
Measured Well Total Depth (feet):				24.4			
Initial Static Water Level (feet):				13.91			
Initial Groundwater Elevation (ft-amsl):				645.55			
Equipment Used:				Dedicated Tubing – Peristaltic Pump			
C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
12:41 PM	Purging start time.						
12:44 PM	10.3	4.9	991.7	7.11	68.1	1.8	
12:47 PM	10.3	4.8	978.1	7.11	124.9	1.3	
12:50 PM	10.3	4.7	976.5	7.11	158.3	1.4	
12:53 PM	10.4	4.7	975.9	7.10	177.9	1.7	
Parameters stabilized, sample collected.							
Quantity of Water Removed from Well (liters):				2.4			
Was well pumped/bailed dry?				No			
Total Amount of Time Purged (minutes:seconds):				12:00			
Average Purge Rate (mL/min):				200.00			
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:	Climax Molybdenum Landfill		
Monitoring Well/Piezometer ID:	MW-16	Date:	4/1/2025
Gradient:	Down	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet):	30.5
Initial Static Water Level (feet):	19.71
Initial Groundwater Elevation (ft-amsl):	639.75
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
4:38 PM	Purging start time.						
4:41 PM	10.9	2.4	1656.5	6.58	200.2	2.0	
4:44 PM	11.1	2.0	1615.9	6.57	202.1	1.5	
4:47 PM	11.1	2.0	1595.8	6.56	203.6	1.5	
4:50 PM	11.1	2.0	1590.6	6.56	205.4	1.5	
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

Project: Climax Molybdenum Landfill							
Monitoring Well/Piezometer ID: MW-17				Date: 4/1/2025			
Gradient: Down				Sampler: Konner Roth			
A. MW/PIEZOMETER CONDITIONS							
Well/Piezometer Capped?		Yes					
Litter/Standing Water?		No					
B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)							
Measured Well Total Depth (feet):				47.1			
Initial Static Water Level (feet):				30.60			
Initial Groundwater Elevation (ft-amsl):				633.70			
Equipment Used:				Dedicated Submersible			
C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
3:21 PM	Purging start time.						
3:24 PM	11.7	0.5	1485.9	7.11	-44.9	25.5	
3:27 PM	12.0	0.3	1465.3	7.07	-49.1	12.1	
3:30 PM	12.1	0.2	1425.0	7.06	-39.9	7.0	
3:33 PM	11.9	0.2	1404.0	7.05	-35.4	5.8	
Parameters stabilized, sample collected.							
Quantity of Water Removed from Well (liters):				2.1			
Was well pumped/bailed dry?				No			
Total Amount of Time Purged (minutes:seconds):				12:00			
Average Purge Rate (mL/min):				175.00			
D. WELL MAINTENANCE							
Does the well require any future maintenance?				No			
If yes, explain:							
Additional Comments:		Color: Clear with small, black flakes Odor: Sulfur					

FORM FOR GROUNDWATER SAMPLING

Project: Climax Molybdenum Landfill							
Monitoring Well/Piezometer ID: MW-18R				Date: 4/1/2025			
Gradient: Up		Sampler: Konner Roth					
A. MW/PIEZOMETER CONDITIONS							
Well/Piezometer Capped?		Yes					
Litter/Standing Water?		No					
B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)							
Measured Well Total Depth (feet):		39.7					
Initial Static Water Level (feet):		34.10					
Initial Groundwater Elevation (ft-amsl):		652.66					
Equipment Used:		Dedicated Submersible					
C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
2:01 PM	Purging start time.						
2:04 PM	11.8	5.1	898.6	7.06	228.8	45.7	
2:07 PM	12.2	4.9	895.6	7.05	236.2	28.4	
2:10 PM	12.4	5.0	893.6	7.06	241.6	24.1	
2:13 PM	12.3	5.1	893.5	7.07	245.9	21.2	
Parameters stabilized, sample collected.							
Quantity of Water Removed from Well (liters):				2.3			
Was well pumped/bailed dry?				No			
Total Amount of Time Purged (minutes:seconds):				12:00			
Average Purge Rate (mL/min):				191.67			
D. WELL MAINTENANCE							
Does the well require any future maintenance?				No			
If yes, explain:							
Additional Comments:		Color: Clear Odor: None					

FORM FOR GROUNDWATER SAMPLING

Project: Climax Molybdenum Landfill							
Monitoring Well/Piezometer ID: MW-21				Date: 4/1/2025			
Gradient: Compliance				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):				32.3			
Initial Static Water Level (feet):				15.55			
Initial Groundwater Elevation (ft-amsl):				645.11			
Equipment Used:				Dedicated Tubing – Peristaltic Pump			
C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
3:53 PM	Purging start time.						
3:56 PM	10.9	1.6	2026.2	6.69	66.0	1.5	
3:59 PM	10.9	1.3	2067.7	6.68	105.1	1.5	
4:02 PM	10.8	1.1	2075.0	6.68	125.4	2.1	
4:05 PM	10.8	1.1	2075.3	6.67	138.2	1.5	
Parameters stabilized, sample collected.							
Quantity of Water Removed from Well (liters):				1.7			
Was well pumped/bailed dry?				No			
Total Amount of Time Purged (minutes:seconds):				12:00			
Average Purge Rate (mL/min):				141.67			
D. WELL MAINTENANCE							
Does the well require any future maintenance?				No			
If yes, explain:							
Additional Comments:		Color: Clear Odor: Sulfur					

FORM FOR GROUNDWATER SAMPLING

Project: Climax Molybdenum Landfill							
Monitoring Well/Piezometer ID: TW-3				Date: 4/1/2025			
Gradient: Down				Sampler: Konner Roth			
A. MW/PIEZOMETER CONDITIONS							
Well/Piezometer Capped?		Yes					
Litter/Standing Water?		No					
B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)							
Measured Well Total Depth (feet):				25.0			
Initial Static Water Level (feet):				10.69			
Initial Groundwater Elevation (ft-amsl):				650.41			
Equipment Used:				Dedicated Tubing – Peristaltic Pump			
C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
2:30 PM	Purging start time.						
2:33 PM	10.3	3.1	870.2	7.26	242.4	12.8	
2:36 PM	10.3	2.7	865.3	7.25	243.1	7.1	
2:39 PM	10.3	2.6	864.9	7.25	243.8	5.5	
2:42 PM	10.4	2.5	865.7	7.25	244.2	5.0	
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:	Climax Molybdenum Landfill		
Monitoring Well/Piezometer ID:	MW-7	Date:	8/6/2025
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):	30.6
Initial Static Water Level (feet):	11.01
Initial Groundwater Elevation (ft-amsl):	658.62
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
2:58 PM	Purging start time.						
3:01 PM	17.7	0.3	1178.4	6.63	41.8	7.2	
3:04 PM	17.8	0.2	1180.0	6.62	20.0	11.2	
3:07 PM	17.6	0.1	1176.6	6.61	12.3	18.6	
3:10 PM	17.9	<0.1	1176.5	6.61	7.8	32.2	
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:	Climax Molybdenum Landfill		
Monitoring Well/Piezometer ID:	MW-11	Date:	8/6/2025
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):	32.3
Initial Static Water Level (feet):	20.95
Initial Groundwater Elevation (ft-amsl):	638.63
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 (FNU)	
1:57 PM	Purging start time.						
2:00 PM	17.9	0.4	1368.8	6.41	-86.2	103.6	
2:03 PM	17.7	0.1	1356.1	6.42	-92.7	87.7	
2:06 PM	17.4	0.1	1352.7	6.42	-95.4	75.5	
2:09 PM	17.4	<0.1	1348.1	6.41	-97.2	75.8	
Parameters stabilized, sample collected.							

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

D. WELL MAINTENANCE

Does the well require any future maintenance?		No
If yes, explain:		
Additional Comments:	Color-Cloudy Odor-Metal/Iron	

FORM FOR GROUNDWATER SAMPLING

Project:	Climax Molybdenum Landfill		
Monitoring Well/Piezometer ID:	MW-15	Date:	8/6/2025
Gradient:	Down	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet):	25.2
Initial Static Water Level (feet):	15.25
Initial Groundwater Elevation (ft-amsl):	644.21
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
2:31 PM	Purging start time.						
2:34 PM	17.8	1.8	1062.9	6.84	-20.6	15.4	
2:37 PM	18.2	1.7	1056.0	6.84	12.3	54.3	
2:40 PM	18.2	1.6	1054.2	6.83	38.1	113.4	
2:43 PM	18.4	1.8	1044.2	6.83	58.2	150.7	
Parameters stabilized, sample collected.							

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

D. WELL MAINTENANCE

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

FORM FOR GROUNDWATER SAMPLING

Project:	Climax Molybdenum Landfill		
Monitoring Well/Piezometer ID:	MW-16	Date:	8/6/2025
Gradient:	Down	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet):	30.5
Initial Static Water Level (feet):	20.28
Initial Groundwater Elevation (ft-amsl):	639.04
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
1:22 PM	Purging start time.						
1:25 PM	19.1	1.6	1598.2	6.46	172.0	9.4	
1:28 PM	19.0	1.6	1598.8	6.45	186.3	16.0	
1:31 PM	19.1	1.7	1594.1	6.43	195.3	24.1	
1:34 PM	18.6	1.9	1593.9	6.40	202.5	30.6	
Parameters stabilized, sample collected.							

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

D. WELL MAINTENANCE

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

FORM FOR GROUNDWATER SAMPLING

Project:	Climax Molybdenum Landfill		
Monitoring Well/Piezometer ID:	MW-17	Date:	8/6/2025
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):	47.1
Initial Static Water Level (feet):	29.50
Initial Groundwater Elevation (ft-amsl):	634.80
Equipment Used:	Dedicated Submersible

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
5:20 PM	Purging start time.						
5:23 PM	17.6	0.7	1487.7	7.05	-161.6	11.2	
5:26 PM	16.9	0.3	1502.7	7.03	-199.3	8.4	
5:29 PM	17.8	0.3	1489.7	7.00	-216.3	10.5	
5:32 PM	16.6	0.2	1462.8	6.99	-221.1	14.1	
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-Sulfur

FORM FOR GROUNDWATER SAMPLING

Project:	Climax Molybdenum Landfill		
Monitoring Well/Piezometer ID:	MW-18R	Date:	8/6/2025
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):	43.3
Initial Static Water Level (feet):	33.73
Initial Groundwater Elevation (ft-amsl):	653.03
Equipment Used:	Dedicated Submersible

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
3:35 PM	Purging start time.						
3:38 PM	17.5	5.7	915.0	6.92	183.4	282.1	
3:41 PM	17.6	5.7	907.3	6.93	190.0	292.2	
3:44 PM	17.4	5.8	908.0	6.93	196.7	271.7	
3:47 PM	17.4	5.9	906.5	6.92	202.6	212.8	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	2.4
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	200.00

D. WELL MAINTENANCE

Does the well require any future maintenance?		No
If yes, explain:		
Additional Comments:	Color-Cloudy/Yellow Tint Odor-None	

FORM FOR GROUNDWATER SAMPLING

[illegible]

FORM FOR GROUNDWATER SAMPLING

[illegible]



Appendix B1

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 3/12/2025 11:43:39 AM

JOB DESCRIPTION

Climax Moly Landfill Sampling - TW-3, Q1 2025
Climax Molybdenum Landfil

JOB NUMBER

310-301145-1

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
Samuel Miller, Project Management Assistant I
Samuel.Miller@et.eurofinsus.com
(319)277-2401

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Case Narrative

Client: SCS Engineers
Project: Climax Moly Landfill Sampling - TW-3, Q1 2025

Job ID: 310-301145-1

Job ID: 310-301145-1

Eurofins Cedar Falls

Job Narrative 310-301145-1

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 sample was received on 2/28/2025 8:50 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C.

HPLC/IC

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: Climax Moly Landfill Sampling - TW-3, Q1 2025

Job ID: 310-301145-1

SDG: Climax Molybdenum Landfil

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-301145-1	TW-3	Water	02/26/25 14:24	02/28/25 08:50

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Detection Summary

Client: SCS Engineers

Project/Site: Climax Moly Landfill Sampling - TW-3, Q1 2025

Job ID: 310-301145-1

SDG: Climax Molybdenum Landfil

Client Sample ID: TW-3

Lab Sample ID: 310-301145-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4.15	J	5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	103		5.00	2.10	mg/L	5		9056A	Total/NA
Iron	0.112		0.100	0.0360	mg/L	1		6020B	Total/NA
Lithium	0.0171		0.0100	0.00250	mg/L	1		6020B	Total/NA
Manganese	0.226		0.0100	0.00360	mg/L	1		6020B	Total/NA
Molybdenum	0.00317		0.00200	0.00130	mg/L	1		6020B	Total/NA
Sodium	28.1		1.00	0.480	mg/L	1		6020B	Total/NA
Strontium	0.705		0.00100	0.000530	mg/L	1		6020B	Total/NA
Chemical Oxygen Demand	11.1		5.00	4.60	mg/L	1		5220D LL	Total/NA
Total Suspended Solids	34.0		5.00	3.70	mg/L	1		I-3765-85	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling - TW-3, Q1 2025

Job ID: 310-301145-1
SDG: Climax Molybdenum Landfil

Client Sample ID: TW-3

Lab Sample ID: 310-301145-1

Date Collected: 02/26/25 14:24

Matrix: Water

Date Received: 02/28/25 08:50

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.15	J	5.00	2.25	mg/L			03/07/25 16:05	5
Sulfate	103		5.00	2.10	mg/L			03/07/25 16:05	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		03/04/25 09:00	03/10/25 19:02	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		03/04/25 09:00	03/10/25 19:02	1
Iron	0.112		0.100	0.0360	mg/L		03/04/25 09:00	03/10/25 19:02	1
Lithium	0.0171		0.0100	0.00250	mg/L		03/04/25 09:00	03/10/25 19:02	1
Manganese	0.226		0.0100	0.00360	mg/L		03/04/25 09:00	03/10/25 19:02	1
Molybdenum	0.00317		0.00200	0.00130	mg/L		03/04/25 09:00	03/11/25 11:33	1
Selenium	<0.00500		0.00500	0.00140	mg/L		03/04/25 09:00	03/10/25 19:02	1
Sodium	28.1		1.00	0.480	mg/L		03/04/25 09:00	03/10/25 19:02	1
Strontium	0.705		0.00100	0.000530	mg/L		03/04/25 09:00	03/10/25 19:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200	F1	0.200	0.110	mg/L			03/03/25 23:17	1
Chemical Oxygen Demand (SM 5220D LL)	11.1		5.00	4.60	mg/L			03/06/25 09:40	1
Total Suspended Solids (USGS I-3765-85)	34.0		5.00	3.70	mg/L			02/28/25 10:30	1

Definitions/Glossary

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling - TW-3, Q1 2025

Job ID: 310-301145-1
SDG: Climax Molybdenum 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.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

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: Climax Moly Landfill Sampling - TW-3, Q1 2025

Job ID: 310-301145-1
SDG: Climax Molybdenum Landfil

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 310-448323/3

Matrix: Water

Analysis Batch: 448323

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			03/07/25 09:19	1
Sulfate	<1.00		1.00	0.420	mg/L			03/07/25 09:19	1

Lab Sample ID: LCS 310-448323/4

Matrix: Water

Analysis Batch: 448323

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	9.861		mg/L		99	90 - 110
Sulfate	10.0	10.08		mg/L		101	90 - 110

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-447936/1-A

Matrix: Water

Analysis Batch: 448552

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 447936

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		03/04/25 09:00	03/10/25 17:45	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		03/04/25 09:00	03/10/25 17:45	1
Iron	<0.100		0.100	0.0360	mg/L		03/04/25 09:00	03/10/25 17:45	1
Lithium	<0.0100		0.0100	0.00250	mg/L		03/04/25 09:00	03/10/25 17:45	1
Manganese	<0.0100		0.0100	0.00360	mg/L		03/04/25 09:00	03/10/25 17:45	1
Molybdenum	<0.00200		0.00200	0.00130	mg/L		03/04/25 09:00	03/10/25 17:45	1
Selenium	<0.00500		0.00500	0.00140	mg/L		03/04/25 09:00	03/10/25 17:45	1
Sodium	<1.00		1.00	0.480	mg/L		03/04/25 09:00	03/10/25 17:45	1
Strontium	<0.00100		0.00100	0.000530	mg/L		03/04/25 09:00	03/10/25 17:45	1

Lab Sample ID: LCS 310-447936/2-A

Matrix: Water

Analysis Batch: 448552

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 447936

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.1997		mg/L		100	80 - 120
Cadmium	0.100	0.1013		mg/L		101	80 - 120
Iron	0.200	0.2010		mg/L		101	80 - 120
Lithium	0.200	0.2127		mg/L		106	80 - 120
Manganese	0.100	0.1008		mg/L		101	80 - 120
Molybdenum	0.200	0.2019		mg/L		101	80 - 120
Selenium	0.400	0.4110		mg/L		103	80 - 120
Sodium	2.00	2.261		mg/L		113	80 - 120
Strontium	0.200	0.2040		mg/L		102	80 - 120

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling - TW-3, Q1 2025

Job ID: 310-301145-1
SDG: Climax Molybdenum Landfil

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 310-447948/107

Matrix: Water

Analysis Batch: 447948

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			03/03/25 23:15	1

Lab Sample ID: LCS 310-447948/108

Matrix: Water

Analysis Batch: 447948

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	8.682		mg/L		102	90 - 110

Lab Sample ID: 310-301145-1 MS

Matrix: Water

Analysis Batch: 447948

Client Sample ID: TW-3

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	<0.200	F1	1.00	0.8490	F1	mg/L		85	90 - 110

Lab Sample ID: 310-301145-1 MSD

Matrix: Water

Analysis Batch: 447948

Client Sample ID: TW-3

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia	<0.200	F1	1.00	0.8088	F1	mg/L		81	90 - 110	5	13

Method: 5220D LL - COD

Lab Sample ID: MB 310-448211/5

Matrix: Water

Analysis Batch: 448211

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			03/06/25 09:40	1

Lab Sample ID: LCS 310-448211/3

Matrix: Water

Analysis Batch: 448211

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	133.0		mg/L		106	85 - 110

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

Lab Sample ID: MB 310-447755/1

Matrix: Water

Analysis Batch: 447755

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.70	mg/L			02/28/25 10:30	1

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling - TW-3, Q1 2025

Job ID: 310-301145-1
SDG: Climax Molybdenum Landfil

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

Lab Sample ID: LCS 310-447755/2				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 447755							
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	97.00		mg/L		97	81 - 116

QC Association Summary

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling - TW-3, Q1 2025

Job ID: 310-301145-1
SDG: Climax Molybdenum Landfil

HPLC/IC

Analysis Batch: 448323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-301145-1	TW-3	Total/NA	Water	9056A	
MB 310-448323/3	Method Blank	Total/NA	Water	9056A	
LCS 310-448323/4	Lab Control Sample	Total/NA	Water	9056A	

Metals

Prep Batch: 447936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-301145-1	TW-3	Total/NA	Water	3005A	
MB 310-447936/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-447936/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 448552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-301145-1	TW-3	Total/NA	Water	6020B	447936
MB 310-447936/1-A	Method Blank	Total/NA	Water	6020B	447936
LCS 310-447936/2-A	Lab Control Sample	Total/NA	Water	6020B	447936

Analysis Batch: 448663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-301145-1	TW-3	Total/NA	Water	6020B	447936

General Chemistry

Analysis Batch: 447755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-301145-1	TW-3	Total/NA	Water	I-3765-85	
MB 310-447755/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-447755/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 447948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-301145-1	TW-3	Total/NA	Water	350.1	
MB 310-447948/107	Method Blank	Total/NA	Water	350.1	
LCS 310-447948/108	Lab Control Sample	Total/NA	Water	350.1	
310-301145-1 MS	TW-3	Total/NA	Water	350.1	
310-301145-1 MSD	TW-3	Total/NA	Water	350.1	

Analysis Batch: 448211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-301145-1	TW-3	Total/NA	Water	5220D LL	
MB 310-448211/5	Method Blank	Total/NA	Water	5220D LL	
LCS 310-448211/3	Lab Control Sample	Total/NA	Water	5220D LL	

Lab Chronicle

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling - TW-3, Q1 2025

Job ID: 310-301145-1
SDG: Climax Molybdenum Landfil

Client Sample ID: TW-3
Date Collected: 02/26/25 14:24
Date Received: 02/28/25 08:50

Lab Sample ID: 310-301145-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	448323	WZC8	EET CF	03/07/25 16:05
Total/NA	Prep	3005A			447936	F5MW	EET CF	03/04/25 09:00
Total/NA	Analysis	6020B		1	448663	NFT2	EET CF	03/11/25 11:33
Total/NA	Prep	3005A			447936	F5MW	EET CF	03/04/25 09:00
Total/NA	Analysis	6020B		1	448552	NFT2	EET CF	03/10/25 19:02
Total/NA	Analysis	350.1		1	447948	ZJX4	EET CF	03/03/25 23:17
Total/NA	Analysis	5220D LL		1	448211	ENB7	EET CF	03/06/25 09:40
Total/NA	Analysis	I-3765-85		1	447755	DGU1	EET CF	02/28/25 10:30

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: Climax Moly Landfill Sampling - TW-3, Q1 2025

Job ID: 310-301145-1
SDG: Climax Molybdenum Landfil

Laboratory: Eurofins Cedar Falls

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

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
6020B	3005A	Water	Lithium

Method Summary

Client: SCS Engineers

Project/Site: Climax Moly Landfill Sampling - TW-3, Q1 2025

Job ID: 310-301145-1

SDG: Climax Molybdenum Landfil

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
I-3765-85	Residue, Non-filterable (TSS)	USGS	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.

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

Laboratory References:

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



Environment Testing
America



310-301145 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>SCS</u>			
City/State: <u>W. Des Moines IA</u>		Project:	
Receipt Information			
Date/Time Received: <u>2/28/25</u> <u>850</u>		Received By: <u>XB</u>	
Delivery Type: ☒ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☐ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler? ☒ Yes ☐ No If yes: Cooler ID. _____			
Multiple Coolers? ☐ Yes ☒ No If yes: Cooler # _____ of _____			
Cooler Custody Seals Present? ☒ Yes ☐ No If yes: Cooler custody seals intact? ☒ Yes ☐ No			
Sample Custody Seals Present? ☐ Yes ☒ No If yes: Sample custody seals intact? ☐ Yes ☐ No			
Trip Blank Present? ☐ Yes ☒ No If yes: Which VOA samples are in cooler? ↓ _____			
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>2</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>1.8</u>		Corrected Temp (°C): <u>1.8</u>	
• Sample Container Temperature			
Container(s) used:	<u>CONTAINER 1</u>	<u>CONTAINER 2</u>	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-301145-1

SDG Number: Climax Molybdenum Landfil

Login Number: 301145

List Number: 1

Creator: Homolar, Dana J

List Source: Eurofins Cedar Falls

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

ANALYTICAL REPORT

PREPARED FOR

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

Generated 4/15/2025 11:45:54 AM

JOB DESCRIPTION

Climax Moly Landfill Sampling Spring 2025
Climax Moly Landfill

JOB NUMBER

310-303433-1

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

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Case Narrative

Client: SCS Engineers
Project: Climax Moly Landfill Sampling Spring 2025

Job ID: 310-303433-1

Job ID: 310-303433-1

Eurofins Cedar Falls

Job Narrative 310-303433-1

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 4/3/2025 4:50 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 1.4°C and 4.3°C.

HPLC/IC

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: Climax Moly Landfill Sampling Spring 2025

Job ID: 310-303433-1
SDG: Climax Moly Landfill

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-303433-1	MW-7	Ground Water	04/01/25 13:50	04/03/25 16:50
310-303433-2	MW-11	Ground Water	04/01/25 12:25	04/03/25 16:50
310-303433-3	MW-15	Ground Water	04/01/25 13:11	04/03/25 16:50
310-303433-4	MW-16	Ground Water	04/01/25 17:10	04/03/25 16:50
310-303433-5	MW-17	Ground Water	04/01/25 15:49	04/03/25 16:50
310-303433-6	MW-18R	Ground Water	04/01/25 14:23	04/03/25 16:50
310-303433-7	MW-21	Ground Water	04/01/25 16:26	04/03/25 16:50
310-303433-8	TW-3	Ground Water	04/01/25 15:08	04/03/25 16:50
310-303433-9	MW-D	Ground Water	04/01/25 15:49	04/03/25 16:50
310-303433-10	Leachate Sump	Water	04/01/25 15:15	04/03/25 16:50

Detection Summary

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Spring 2025

Job ID: 310-303433-1
SDG: Climax Moly Landfill

Client Sample ID: MW-7

Lab Sample ID: 310-303433-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2.66	J	5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	108		5.00	2.10	mg/L	5		9056A	Total/NA
Cadmium	0.000116	J	0.000200	0.000100	mg/L	1		6020B	Total/NA
Iron	0.331		0.100	0.0500	mg/L	1		6020B	Total/NA
Lithium	0.0247		0.0100	0.00290	mg/L	1		6020B	Total/NA
Manganese	1.74		0.0100	0.00360	mg/L	1		6020B	Total/NA
Molybdenum	0.00174	J	0.00200	0.00130	mg/L	1		6020B	Total/NA
Sodium	58.9		1.00	0.650	mg/L	1		6020B	Total/NA
Strontium	0.500		0.00100	0.000530	mg/L	1		6020B	Total/NA
Chemical Oxygen Demand	12.4		5.00	4.60	mg/L	1		5220D LL	Total/NA
Total Suspended Solids	3.00		1.88	1.31	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-11

Lab Sample ID: 310-303433-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	20.7		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	33.6		5.00	2.10	mg/L	5		9056A	Total/NA
Arsenic	0.0127		0.00200	0.000530	mg/L	1		6020B	Total/NA
Cadmium	0.000147	J	0.000200	0.000100	mg/L	1		6020B	Total/NA
Iron	42.6		0.100	0.0500	mg/L	1		6020B	Total/NA
Lithium	0.00729	J	0.0100	0.00290	mg/L	1		6020B	Total/NA
Manganese	4.40		0.0100	0.00360	mg/L	1		6020B	Total/NA
Molybdenum	0.00138	J	0.00200	0.00130	mg/L	1		6020B	Total/NA
Sodium	83.0		1.00	0.650	mg/L	1		6020B	Total/NA
Strontium	0.530		0.00100	0.000530	mg/L	1		6020B	Total/NA
Ammonia	4.25		0.200	0.110	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	169		10.0	9.20	mg/L	2		5220D LL	Total/NA
Total Suspended Solids	130		30.0	21.0	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-15

Lab Sample ID: 310-303433-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.57		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	148		5.00	2.10	mg/L	5		9056A	Total/NA
Lithium	0.0321		0.0100	0.00290	mg/L	1		6020B	Total/NA
Molybdenum	0.00178	J	0.00200	0.00130	mg/L	1		6020B	Total/NA
Selenium	0.00309	J	0.00500	0.00140	mg/L	1		6020B	Total/NA
Sodium	56.0		1.00	0.650	mg/L	1		6020B	Total/NA
Strontium	0.402		0.00100	0.000530	mg/L	1		6020B	Total/NA

Client Sample ID: MW-16

Lab Sample ID: 310-303433-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.94		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	477		5.00	2.10	mg/L	5		9056A	Total/NA
Arsenic	0.000798	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Lithium	0.136		0.0100	0.00290	mg/L	1		6020B	Total/NA
Manganese	0.228		0.0100	0.00360	mg/L	1		6020B	Total/NA
Molybdenum	0.00277		0.00200	0.00130	mg/L	1		6020B	Total/NA
Sodium	54.3		1.00	0.650	mg/L	1		6020B	Total/NA
Strontium	1.34		0.00100	0.000530	mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Spring 2025

Job ID: 310-303433-1
SDG: Climax Moly Landfill

Client Sample ID: MW-17

Lab Sample ID: 310-303433-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.63		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	286		5.00	2.10	mg/L	5		9056A	Total/NA
Lithium	0.0678		0.0100	0.00290	mg/L	1		6020B	Total/NA
Manganese	0.371		0.0100	0.00360	mg/L	1		6020B	Total/NA
Molybdenum	0.00173	J	0.00200	0.00130	mg/L	1		6020B	Total/NA
Selenium	0.0114		0.00500	0.00140	mg/L	1		6020B	Total/NA
Sodium	64.2		1.00	0.650	mg/L	1		6020B	Total/NA
Strontium	0.529		0.00100	0.000530	mg/L	1		6020B	Total/NA
Total Suspended Solids	2.13		1.88	1.31	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-18R

Lab Sample ID: 310-303433-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.43		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	48.8		5.00	2.10	mg/L	5		9056A	Total/NA
Iron	0.207		0.100	0.0500	mg/L	1		6020B	Total/NA
Lithium	0.0325		0.0100	0.00290	mg/L	1		6020B	Total/NA
Manganese	0.0171		0.0100	0.00360	mg/L	1		6020B	Total/NA
Selenium	0.0472		0.00500	0.00140	mg/L	1		6020B	Total/NA
Sodium	53.1		1.00	0.650	mg/L	1		6020B	Total/NA
Strontium	0.271		0.00100	0.000530	mg/L	1		6020B	Total/NA
Total Suspended Solids	12.5		1.88	1.31	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-21

Lab Sample ID: 310-303433-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	72.6		10.0	4.50	mg/L	10		9056A	Total/NA
Sulfate	590		10.0	4.20	mg/L	10		9056A	Total/NA
Lithium	0.0269		0.0100	0.00290	mg/L	1		6020B	Total/NA
Manganese	0.0165		0.0100	0.00360	mg/L	1		6020B	Total/NA
Selenium	0.0228		0.00500	0.00140	mg/L	1		6020B	Total/NA
Sodium	90.8		1.00	0.650	mg/L	1		6020B	Total/NA
Strontium	0.713		0.00100	0.000530	mg/L	1		6020B	Total/NA
Chemical Oxygen Demand	5.29		5.00	4.60	mg/L	1		5220D LL	Total/NA
Total Suspended Solids	1.88		1.88	1.31	mg/L	1		I-3765-85	Total/NA

Client Sample ID: TW-3

Lab Sample ID: 310-303433-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3.33	J	5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	58.3		5.00	2.10	mg/L	5		9056A	Total/NA
Iron	0.162		0.100	0.0500	mg/L	1		6020B	Total/NA
Lithium	0.0274		0.0100	0.00290	mg/L	1		6020B	Total/NA
Manganese	0.00501	J	0.0100	0.00360	mg/L	1		6020B	Total/NA
Molybdenum	0.00222		0.00200	0.00130	mg/L	1		6020B	Total/NA
Selenium	0.00902		0.00500	0.00140	mg/L	1		6020B	Total/NA
Sodium	62.2		1.00	0.650	mg/L	1		6020B	Total/NA
Strontium	0.311		0.00100	0.000530	mg/L	1		6020B	Total/NA
Chemical Oxygen Demand	8.00		5.00	4.60	mg/L	1		5220D LL	Total/NA
Total Suspended Solids	3.25		1.88	1.31	mg/L	1		I-3765-85	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Spring 2025

Job ID: 310-303433-1
SDG: Climax Moly Landfill

Client Sample ID: MW-D

Lab Sample ID: 310-303433-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.82		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	263		5.00	2.10	mg/L	5		9056A	Total/NA
Lithium	0.0615		0.0100	0.00290	mg/L	1		6020B	Total/NA
Manganese	0.173		0.0100	0.00360	mg/L	1		6020B	Total/NA
Selenium	0.0199		0.00500	0.00140	mg/L	1		6020B	Total/NA
Sodium	60.5		1.00	0.650	mg/L	1		6020B	Total/NA
Strontium	0.531		0.00100	0.000530	mg/L	1		6020B	Total/NA
Total Suspended Solids	1.50	J	1.88	1.31	mg/L	1		I-3765-85	Total/NA

Client Sample ID: Leachate Sump

Lab Sample ID: 310-303433-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	47.1	J	50.0	22.5	mg/L	50		9056A	Total/NA
Sulfate	1210		50.0	21.0	mg/L	50		9056A	Total/NA
Arsenic	0.0280		0.00200	0.000530	mg/L	1		6020B	Total/NA
Cadmium	0.00184		0.000200	0.000100	mg/L	1		6020B	Total/NA
Iron	2.93		0.100	0.0500	mg/L	1		6020B	Total/NA
Manganese	1.24		0.0100	0.00360	mg/L	1		6020B	Total/NA
Molybdenum	4.42		0.00800	0.00520	mg/L	4		6020B	Total/NA
Selenium	0.981		0.0200	0.00560	mg/L	4		6020B	Total/NA
Sodium	545		4.00	2.60	mg/L	4		6020B	Total/NA
Strontium	0.396		0.00100	0.000530	mg/L	1		6020B	Total/NA
Ammonia	0.206		0.200	0.110	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	30.0		5.00	4.60	mg/L	1		5220D LL	Total/NA
Total Suspended Solids	181		15.0	10.5	mg/L	1		I-3765-85	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Spring 2025

Job ID: 310-303433-1
SDG: Climax Moly Landfill

Client Sample ID: MW-7

Lab Sample ID: 310-303433-1

Date Collected: 04/01/25 13:50

Matrix: Ground Water

Date Received: 04/03/25 16:50

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.66	J	5.00	2.25	mg/L			04/08/25 19:52	5
Sulfate	108		5.00	2.10	mg/L			04/08/25 19:52	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		04/07/25 09:30	04/10/25 19:45	1
Cadmium	0.000116	J	0.000200	0.000100	mg/L		04/07/25 09:30	04/10/25 19:45	1
Iron	0.331		0.100	0.0500	mg/L		04/07/25 09:30	04/10/25 19:45	1
Lithium	0.0247		0.0100	0.00290	mg/L		04/07/25 09:30	04/11/25 14:02	1
Manganese	1.74		0.0100	0.00360	mg/L		04/07/25 09:30	04/10/25 19:45	1
Molybdenum	0.00174	J	0.00200	0.00130	mg/L		04/07/25 09:30	04/11/25 14:02	1
Selenium	<0.00500		0.00500	0.00140	mg/L		04/07/25 09:30	04/10/25 19:45	1
Sodium	58.9		1.00	0.650	mg/L		04/07/25 09:30	04/11/25 14:02	1
Strontium	0.500		0.00100	0.000530	mg/L		04/07/25 09:30	04/10/25 19:45	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			04/04/25 20:54	1
Chemical Oxygen Demand (SM 5220D LL)	12.4		5.00	4.60	mg/L			04/09/25 10:39	1
Total Suspended Solids (USGS I-3765-85)	3.00		1.88	1.31	mg/L			04/04/25 07:55	1

Client Sample Results

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Spring 2025

Job ID: 310-303433-1
SDG: Climax Moly Landfill

Client Sample ID: MW-11

Lab Sample ID: 310-303433-2

Date Collected: 04/01/25 12:25

Matrix: Ground Water

Date Received: 04/03/25 16:50

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.7		5.00	2.25	mg/L			04/08/25 20:05	5
Sulfate	33.6		5.00	2.10	mg/L			04/08/25 20:05	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0127		0.00200	0.000530	mg/L		04/07/25 09:30	04/10/25 19:47	1
Cadmium	0.000147	J	0.000200	0.000100	mg/L		04/07/25 09:30	04/10/25 19:47	1
Iron	42.6		0.100	0.0500	mg/L		04/07/25 09:30	04/10/25 19:47	1
Lithium	0.00729	J	0.0100	0.00290	mg/L		04/07/25 09:30	04/11/25 14:04	1
Manganese	4.40		0.0100	0.00360	mg/L		04/07/25 09:30	04/10/25 19:47	1
Molybdenum	0.00138	J	0.00200	0.00130	mg/L		04/07/25 09:30	04/11/25 14:04	1
Selenium	<0.00500		0.00500	0.00140	mg/L		04/07/25 09:30	04/10/25 19:47	1
Sodium	83.0		1.00	0.650	mg/L		04/07/25 09:30	04/11/25 14:04	1
Strontium	0.530		0.00100	0.000530	mg/L		04/07/25 09:30	04/10/25 19:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	4.25		0.200	0.110	mg/L			04/04/25 20:54	1
Chemical Oxygen Demand (SM 5220D LL)	169		10.0	9.20	mg/L			04/09/25 10:39	2
Total Suspended Solids (USGS I-3765-85)	130		30.0	21.0	mg/L			04/04/25 07:55	1

Client Sample Results

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Spring 2025

Job ID: 310-303433-1
SDG: Climax Moly Landfill

Client Sample ID: MW-15

Lab Sample ID: 310-303433-3

Date Collected: 04/01/25 13:11

Matrix: Ground Water

Date Received: 04/03/25 16:50

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.57		5.00	2.25	mg/L			04/10/25 14:46	5
Sulfate	148		5.00	2.10	mg/L			04/10/25 14:46	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		04/07/25 09:30	04/10/25 19:49	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		04/07/25 09:30	04/10/25 19:49	1
Iron	<0.100		0.100	0.0500	mg/L		04/07/25 09:30	04/10/25 19:49	1
Lithium	0.0321		0.0100	0.00290	mg/L		04/07/25 09:30	04/11/25 14:07	1
Manganese	<0.0100		0.0100	0.00360	mg/L		04/07/25 09:30	04/10/25 19:49	1
Molybdenum	0.00178	J	0.00200	0.00130	mg/L		04/07/25 09:30	04/11/25 14:07	1
Selenium	0.00309	J	0.00500	0.00140	mg/L		04/07/25 09:30	04/10/25 19:49	1
Sodium	56.0		1.00	0.650	mg/L		04/07/25 09:30	04/11/25 14:07	1
Strontium	0.402		0.00100	0.000530	mg/L		04/07/25 09:30	04/10/25 19:49	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			04/04/25 20:56	1
Chemical Oxygen Demand (SM 5220D LL)	<5.00		5.00	4.60	mg/L			04/09/25 10:39	1
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.31	mg/L			04/04/25 07:55	1

Client Sample Results

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Spring 2025

Job ID: 310-303433-1
SDG: Climax Moly Landfill

Client Sample ID: MW-16

Lab Sample ID: 310-303433-4

Date Collected: 04/01/25 17:10

Matrix: Ground Water

Date Received: 04/03/25 16:50

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.94		5.00	2.25	mg/L			04/10/25 14:59	5
Sulfate	477		5.00	2.10	mg/L			04/10/25 14:59	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000798	J	0.00200	0.000530	mg/L		04/07/25 09:30	04/10/25 19:52	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		04/07/25 09:30	04/10/25 19:52	1
Iron	<0.100		0.100	0.0500	mg/L		04/07/25 09:30	04/10/25 19:52	1
Lithium	0.136		0.0100	0.00290	mg/L		04/07/25 09:30	04/11/25 14:09	1
Manganese	0.228		0.0100	0.00360	mg/L		04/07/25 09:30	04/10/25 19:52	1
Molybdenum	0.00277		0.00200	0.00130	mg/L		04/07/25 09:30	04/11/25 14:09	1
Selenium	<0.00500		0.00500	0.00140	mg/L		04/07/25 09:30	04/10/25 19:52	1
Sodium	54.3		1.00	0.650	mg/L		04/07/25 09:30	04/11/25 14:09	1
Strontium	1.34		0.00100	0.000530	mg/L		04/07/25 09:30	04/10/25 19:52	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			04/04/25 20:56	1
Chemical Oxygen Demand (SM 5220D LL)	<5.00		5.00	4.60	mg/L			04/09/25 10:39	1
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.31	mg/L			04/04/25 07:55	1

Client Sample Results

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Spring 2025

Job ID: 310-303433-1
SDG: Climax Moly Landfill

Client Sample ID: MW-17

Lab Sample ID: 310-303433-5

Date Collected: 04/01/25 15:49

Matrix: Ground Water

Date Received: 04/03/25 16:50

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.63		5.00	2.25	mg/L			04/10/25 15:12	5
Sulfate	286		5.00	2.10	mg/L			04/10/25 15:12	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		04/07/25 09:30	04/10/25 19:54	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		04/07/25 09:30	04/10/25 19:54	1
Iron	<0.100		0.100	0.0500	mg/L		04/07/25 09:30	04/10/25 19:54	1
Lithium	0.0678		0.0100	0.00290	mg/L		04/07/25 09:30	04/11/25 14:11	1
Manganese	0.371		0.0100	0.00360	mg/L		04/07/25 09:30	04/10/25 19:54	1
Molybdenum	0.00173 J		0.00200	0.00130	mg/L		04/07/25 09:30	04/11/25 14:11	1
Selenium	0.0114		0.00500	0.00140	mg/L		04/07/25 09:30	04/10/25 19:54	1
Sodium	64.2		1.00	0.650	mg/L		04/07/25 09:30	04/11/25 14:11	1
Strontium	0.529		0.00100	0.000530	mg/L		04/07/25 09:30	04/10/25 19:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200	F1	0.200	0.110	mg/L			04/04/25 20:59	1
Chemical Oxygen Demand (SM 5220D LL)	<5.00		5.00	4.60	mg/L			04/09/25 10:39	1
Total Suspended Solids (USGS I-3765-85)	2.13		1.88	1.31	mg/L			04/04/25 07:55	1

Client Sample Results

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Spring 2025

Job ID: 310-303433-1
SDG: Climax Moly Landfill

Client Sample ID: MW-18R

Lab Sample ID: 310-303433-6

Date Collected: 04/01/25 14:23

Matrix: Ground Water

Date Received: 04/03/25 16:50

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.43		5.00	2.25	mg/L			04/10/25 15:25	5
Sulfate	48.8		5.00	2.10	mg/L			04/10/25 15:25	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		04/07/25 09:30	04/10/25 19:57	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		04/07/25 09:30	04/10/25 19:57	1
Iron	0.207		0.100	0.0500	mg/L		04/07/25 09:30	04/10/25 19:57	1
Lithium	0.0325		0.0100	0.00290	mg/L		04/07/25 09:30	04/11/25 14:14	1
Manganese	0.0171		0.0100	0.00360	mg/L		04/07/25 09:30	04/10/25 19:57	1
Molybdenum	<0.00200		0.00200	0.00130	mg/L		04/07/25 09:30	04/10/25 19:57	1
Selenium	0.0472		0.00500	0.00140	mg/L		04/07/25 09:30	04/10/25 19:57	1
Sodium	53.1		1.00	0.650	mg/L		04/07/25 09:30	04/11/25 14:14	1
Strontium	0.271		0.00100	0.000530	mg/L		04/07/25 09:30	04/10/25 19:57	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			04/04/25 21:01	1
Chemical Oxygen Demand (SM 5220D LL)	<5.00		5.00	4.60	mg/L			04/09/25 10:39	1
Total Suspended Solids (USGS I-3765-85)	12.5		1.88	1.31	mg/L			04/04/25 07:55	1

Client Sample Results

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Spring 2025

Job ID: 310-303433-1
SDG: Climax Moly Landfill

Client Sample ID: MW-21

Lab Sample ID: 310-303433-7

Date Collected: 04/01/25 16:26

Matrix: Ground Water

Date Received: 04/03/25 16:50

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.6		10.0	4.50	mg/L			04/10/25 15:38	10
Sulfate	590		10.0	4.20	mg/L			04/10/25 15:38	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		04/07/25 09:30	04/10/25 19:59	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		04/07/25 09:30	04/10/25 19:59	1
Iron	<0.100		0.100	0.0500	mg/L		04/07/25 09:30	04/10/25 19:59	1
Lithium	0.0269		0.0100	0.00290	mg/L		04/07/25 09:30	04/11/25 14:16	1
Manganese	0.0165		0.0100	0.00360	mg/L		04/07/25 09:30	04/10/25 19:59	1
Molybdenum	<0.00200		0.00200	0.00130	mg/L		04/07/25 09:30	04/10/25 19:59	1
Selenium	0.0228		0.00500	0.00140	mg/L		04/07/25 09:30	04/10/25 19:59	1
Sodium	90.8		1.00	0.650	mg/L		04/07/25 09:30	04/11/25 14:16	1
Strontium	0.713		0.00100	0.000530	mg/L		04/07/25 09:30	04/10/25 19:59	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			04/04/25 21:04	1
Chemical Oxygen Demand (SM 5220D LL)	5.29		5.00	4.60	mg/L			04/09/25 10:39	1
Total Suspended Solids (USGS I-3765-85)	1.88		1.88	1.31	mg/L			04/04/25 07:55	1

Client Sample Results

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Spring 2025

Job ID: 310-303433-1
SDG: Climax Moly Landfill

Client Sample ID: TW-3

Lab Sample ID: 310-303433-8

Date Collected: 04/01/25 15:08

Matrix: Ground Water

Date Received: 04/03/25 16:50

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.33	J	5.00	2.25	mg/L			04/10/25 15:51	5
Sulfate	58.3		5.00	2.10	mg/L			04/10/25 15:51	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		04/08/25 09:00	04/09/25 18:15	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		04/08/25 09:00	04/09/25 18:15	1
Iron	0.162		0.100	0.0500	mg/L		04/08/25 09:00	04/09/25 18:15	1
Lithium	0.0274		0.0100	0.00290	mg/L		04/08/25 09:00	04/09/25 18:15	1
Manganese	0.00501	J	0.0100	0.00360	mg/L		04/08/25 09:00	04/09/25 18:15	1
Molybdenum	0.00222		0.00200	0.00130	mg/L		04/08/25 09:00	04/09/25 18:15	1
Selenium	0.00902		0.00500	0.00140	mg/L		04/08/25 09:00	04/09/25 18:15	1
Sodium	62.2		1.00	0.650	mg/L		04/08/25 09:00	04/09/25 18:15	1
Strontium	0.311		0.00100	0.000530	mg/L		04/08/25 09:00	04/09/25 18:15	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			04/04/25 21:04	1
Chemical Oxygen Demand (SM 5220D LL)	8.00		5.00	4.60	mg/L			04/09/25 10:39	1
Total Suspended Solids (USGS I-3765-85)	3.25		1.88	1.31	mg/L			04/04/25 07:55	1

Client Sample Results

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Spring 2025

Job ID: 310-303433-1
SDG: Climax Moly Landfill

Client Sample ID: MW-D

Lab Sample ID: 310-303433-9

Date Collected: 04/01/25 15:49

Matrix: Ground Water

Date Received: 04/03/25 16:50

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.82		5.00	2.25	mg/L			04/10/25 16:31	5
Sulfate	263		5.00	2.10	mg/L			04/10/25 16:31	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		04/08/25 09:00	04/09/25 18:17	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		04/08/25 09:00	04/09/25 18:17	1
Iron	<0.100		0.100	0.0500	mg/L		04/08/25 09:00	04/09/25 18:17	1
Lithium	0.0615		0.0100	0.00290	mg/L		04/08/25 09:00	04/09/25 18:17	1
Manganese	0.173		0.0100	0.00360	mg/L		04/08/25 09:00	04/09/25 18:17	1
Molybdenum	<0.00200		0.00200	0.00130	mg/L		04/08/25 09:00	04/09/25 18:17	1
Selenium	0.0199		0.00500	0.00140	mg/L		04/08/25 09:00	04/09/25 18:17	1
Sodium	60.5		1.00	0.650	mg/L		04/08/25 09:00	04/09/25 18:17	1
Strontium	0.531		0.00100	0.000530	mg/L		04/08/25 09:00	04/09/25 18:17	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			04/04/25 21:06	1
Chemical Oxygen Demand (SM 5220D LL)	<5.00		5.00	4.60	mg/L			04/09/25 10:39	1
Total Suspended Solids (USGS I-3765-85)	1.50 J		1.88	1.31	mg/L			04/04/25 07:55	1

Client Sample Results

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Spring 2025

Job ID: 310-303433-1
SDG: Climax Moly Landfill

Client Sample ID: Leachate Sump

Lab Sample ID: 310-303433-10

Date Collected: 04/01/25 15:15

Matrix: Water

Date Received: 04/03/25 16:50

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.1	J	50.0	22.5	mg/L			04/09/25 12:11	50
Sulfate	1210		50.0	21.0	mg/L			04/09/25 12:11	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0280		0.00200	0.000530	mg/L		04/07/25 09:30	04/10/25 20:01	1
Cadmium	0.00184		0.000200	0.000100	mg/L		04/07/25 09:30	04/10/25 20:01	1
Iron	2.93		0.100	0.0500	mg/L		04/07/25 09:30	04/10/25 20:01	1
Lithium	<0.0400		0.0400	0.0116	mg/L		04/07/25 09:30	04/11/25 14:26	4
Manganese	1.24		0.0100	0.00360	mg/L		04/07/25 09:30	04/10/25 20:01	1
Molybdenum	4.42		0.00800	0.00520	mg/L		04/07/25 09:30	04/11/25 14:26	4
Selenium	0.981		0.0200	0.00560	mg/L		04/07/25 09:30	04/11/25 14:26	4
Sodium	545		4.00	2.60	mg/L		04/07/25 09:30	04/11/25 14:26	4
Strontium	0.396		0.00100	0.000530	mg/L		04/07/25 09:30	04/10/25 20:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	0.206		0.200	0.110	mg/L			04/04/25 21:06	1
Chemical Oxygen Demand (SM 5220D LL)	30.0		5.00	4.60	mg/L			04/09/25 10:39	1
Total Suspended Solids (USGS I-3765-85)	181		15.0	10.5	mg/L			04/04/25 07:55	1

Definitions/Glossary

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Spring 2025

Job ID: 310-303433-1
SDG: Climax Moly 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: Climax Moly Landfill Sampling Spring 2025

Job ID: 310-303433-1
SDG: Climax Moly Landfill

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 310-451132/3

Matrix: Water

Analysis Batch: 451132

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			04/08/25 14:12	1
Sulfate	<1.00		1.00	0.420	mg/L			04/08/25 14:12	1

Lab Sample ID: LCS 310-451132/4

Matrix: Water

Analysis Batch: 451132

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	9.739		mg/L		97	90 - 110
Sulfate	10.0	10.17		mg/L		102	90 - 110

Lab Sample ID: MB 310-451137/3

Matrix: Water

Analysis Batch: 451137

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			04/08/25 10:23	1
Sulfate	<1.00		1.00	0.420	mg/L			04/08/25 10:23	1

Lab Sample ID: LCS 310-451137/4

Matrix: Water

Analysis Batch: 451137

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	9.256		mg/L		93	90 - 110
Sulfate	10.0	9.231		mg/L		92	90 - 110

Lab Sample ID: MB 310-451618/3

Matrix: Water

Analysis Batch: 451618

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			04/10/25 11:17	1
Sulfate	<1.00		1.00	0.420	mg/L			04/10/25 11:17	1

Lab Sample ID: LCS 310-451618/4

Matrix: Water

Analysis Batch: 451618

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	9.899		mg/L		99	90 - 110
Sulfate	10.0	9.819		mg/L		98	90 - 110

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QC Sample Results

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Spring 2025

Job ID: 310-303433-1
SDG: Climax Moly Landfill

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-450744/1-A

Matrix: Water

Analysis Batch: 451313

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 450744

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		04/07/25 09:30	04/10/25 18:49	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		04/07/25 09:30	04/10/25 18:49	1
Iron	<0.100		0.100	0.0500	mg/L		04/07/25 09:30	04/10/25 18:49	1
Manganese	<0.0100		0.0100	0.00360	mg/L		04/07/25 09:30	04/10/25 18:49	1
Selenium	<0.00500		0.00500	0.00140	mg/L		04/07/25 09:30	04/10/25 18:49	1

Lab Sample ID: MB 310-450744/1-A

Matrix: Water

Analysis Batch: 451403

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 450744

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0100		0.0100	0.00290	mg/L		04/07/25 09:30	04/11/25 13:09	1
Molybdenum	<0.00200		0.00200	0.00130	mg/L		04/07/25 09:30	04/11/25 13:09	1
Sodium	<1.00		1.00	0.650	mg/L		04/07/25 09:30	04/11/25 13:09	1
Strontium	<0.00100		0.00100	0.000530	mg/L		04/07/25 09:30	04/11/25 13:09	1

Lab Sample ID: LCS 310-450744/2-A

Matrix: Water

Analysis Batch: 451313

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 450744

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.1957		mg/L		98	80 - 120
Cadmium	0.100	0.09785		mg/L		98	80 - 120
Iron	0.200	0.1963		mg/L		98	80 - 120
Manganese	0.100	0.08890		mg/L		89	80 - 120
Selenium	0.400	0.3705		mg/L		93	80 - 120

Lab Sample ID: LCS 310-450744/2-A

Matrix: Water

Analysis Batch: 451403

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 450744

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.200	0.2095		mg/L		105	80 - 120
Molybdenum	0.200	0.2041		mg/L		102	80 - 120
Sodium	2.00	2.179		mg/L		109	80 - 120
Strontium	0.200	0.2045		mg/L		102	80 - 120

Lab Sample ID: MB 310-450884/1-A

Matrix: Water

Analysis Batch: 451166

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 450884

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		04/08/25 09:00	04/09/25 17:05	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		04/08/25 09:00	04/09/25 17:05	1
Iron	<0.100		0.100	0.0500	mg/L		04/08/25 09:00	04/09/25 17:05	1
Lithium	<0.0100		0.0100	0.00290	mg/L		04/08/25 09:00	04/09/25 17:05	1
Manganese	<0.0100		0.0100	0.00360	mg/L		04/08/25 09:00	04/09/25 17:05	1
Molybdenum	<0.00200		0.00200	0.00130	mg/L		04/08/25 09:00	04/09/25 17:05	1
Selenium	<0.00500		0.00500	0.00140	mg/L		04/08/25 09:00	04/09/25 17:05	1

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Spring 2025

Job ID: 310-303433-1
SDG: Climax Moly Landfill

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

Lab Sample ID: MB 310-450884/1-A

Matrix: Water

Analysis Batch: 451166

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 450884

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	<1.00		1.00	0.650	mg/L		04/08/25 09:00	04/09/25 17:05	1
Strontium	<0.00100		0.00100	0.000530	mg/L		04/08/25 09:00	04/09/25 17:05	1

Lab Sample ID: LCS 310-450884/2-A

Matrix: Water

Analysis Batch: 451166

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 450884

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.2114		mg/L		106	80 - 120
Cadmium	0.100	0.1035		mg/L		104	80 - 120
Iron	0.200	0.2135		mg/L		107	80 - 120
Lithium	0.200	0.2053		mg/L		103	80 - 120
Manganese	0.100	0.1002		mg/L		100	80 - 120
Molybdenum	0.200	0.1989		mg/L		99	80 - 120
Selenium	0.400	0.3997		mg/L		100	80 - 120
Sodium	2.00	2.101		mg/L		105	80 - 120
Strontium	0.200	0.2085		mg/L		104	80 - 120

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 310-450759/100

Matrix: Water

Analysis Batch: 450759

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			04/04/25 20:35	1

Lab Sample ID: MB 310-450759/128

Matrix: Water

Analysis Batch: 450759

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			04/04/25 20:57	1

Lab Sample ID: LCS 310-450759/101

Matrix: Water

Analysis Batch: 450759

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	8.444		mg/L		99	90 - 110

Lab Sample ID: LCS 310-450759/129

Matrix: Water

Analysis Batch: 450759

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	8.394		mg/L		98	90 - 110

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Spring 2025

Job ID: 310-303433-1
SDG: Climax Moly Landfill

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 310-303433-5 MS

Matrix: Ground Water

Analysis Batch: 450759

Client Sample ID: MW-17

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	<0.200	F1	1.00	0.8341	F1	mg/L		83	90 - 110

Lab Sample ID: 310-303433-5 MSD

Matrix: Ground Water

Analysis Batch: 450759

Client Sample ID: MW-17

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia	<0.200	F1	1.00	0.8355	F1	mg/L		84	90 - 110	0	13

Method: 5220D LL - COD

Lab Sample ID: MB 310-451095/5

Matrix: Water

Analysis Batch: 451095

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			04/09/25 10:39	1

Lab Sample ID: MB 310-451095/60

Matrix: Water

Analysis Batch: 451095

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			04/09/25 10:39	1

Lab Sample ID: LCS 310-451095/63

Matrix: Water

Analysis Batch: 451095

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	126.8		mg/L		101	85 - 110

Lab Sample ID: 310-303433-10 MS

Matrix: Water

Analysis Batch: 451095

Client Sample ID: Leachate Sump

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	30.0		50.0	85.15		mg/L		110	83 - 146

Lab Sample ID: 310-303433-10 MSD

Matrix: Water

Analysis Batch: 451095

Client Sample ID: Leachate Sump

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chemical Oxygen Demand	30.0		50.0	83.80		mg/L		108	83 - 146	2	18

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QC Sample Results

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Spring 2025

Job ID: 310-303433-1
SDG: Climax Moly Landfill

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

Lab Sample ID: MB 310-450661/1
Matrix: Water
Analysis Batch: 450661

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.50	mg/L			04/04/25 07:55	1

Lab Sample ID: LCS 310-450661/2
Matrix: Water
Analysis Batch: 450661

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	99.00		mg/L		99	81 - 116

Lab Sample ID: 310-303433-2 DU
Matrix: Ground Water
Analysis Batch: 450661

Client Sample ID: MW-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	130		130.0		mg/L		0	35

QC Association Summary

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Spring 2025

Job ID: 310-303433-1
SDG: Climax Moly Landfill

HPLC/IC

Analysis Batch: 451132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303433-1	MW-7	Total/NA	Ground Water	9056A	
310-303433-2	MW-11	Total/NA	Ground Water	9056A	
MB 310-451132/3	Method Blank	Total/NA	Water	9056A	
LCS 310-451132/4	Lab Control Sample	Total/NA	Water	9056A	

Analysis Batch: 451137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303433-10	Leachate Sump	Total/NA	Water	9056A	
MB 310-451137/3	Method Blank	Total/NA	Water	9056A	
LCS 310-451137/4	Lab Control Sample	Total/NA	Water	9056A	

Analysis Batch: 451618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303433-3	MW-15	Total/NA	Ground Water	9056A	
310-303433-4	MW-16	Total/NA	Ground Water	9056A	
310-303433-5	MW-17	Total/NA	Ground Water	9056A	
310-303433-6	MW-18R	Total/NA	Ground Water	9056A	
310-303433-7	MW-21	Total/NA	Ground Water	9056A	
310-303433-8	TW-3	Total/NA	Ground Water	9056A	
310-303433-9	MW-D	Total/NA	Ground Water	9056A	
MB 310-451618/3	Method Blank	Total/NA	Water	9056A	
LCS 310-451618/4	Lab Control Sample	Total/NA	Water	9056A	

Metals

Prep Batch: 450744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303433-1	MW-7	Total/NA	Ground Water	3005A	
310-303433-2	MW-11	Total/NA	Ground Water	3005A	
310-303433-3	MW-15	Total/NA	Ground Water	3005A	
310-303433-4	MW-16	Total/NA	Ground Water	3005A	
310-303433-5	MW-17	Total/NA	Ground Water	3005A	
310-303433-6	MW-18R	Total/NA	Ground Water	3005A	
310-303433-7	MW-21	Total/NA	Ground Water	3005A	
310-303433-10	Leachate Sump	Total/NA	Water	3005A	
MB 310-450744/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-450744/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 450884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303433-8	TW-3	Total/NA	Ground Water	3005A	
310-303433-9	MW-D	Total/NA	Ground Water	3005A	
MB 310-450884/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-450884/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 451166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303433-8	TW-3	Total/NA	Ground Water	6020B	450884
310-303433-9	MW-D	Total/NA	Ground Water	6020B	450884
MB 310-450884/1-A	Method Blank	Total/NA	Water	6020B	450884
LCS 310-450884/2-A	Lab Control Sample	Total/NA	Water	6020B	450884

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Spring 2025

Job ID: 310-303433-1
SDG: Climax Moly Landfill

Metals

Analysis Batch: 451313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303433-1	MW-7	Total/NA	Ground Water	6020B	450744
310-303433-2	MW-11	Total/NA	Ground Water	6020B	450744
310-303433-3	MW-15	Total/NA	Ground Water	6020B	450744
310-303433-4	MW-16	Total/NA	Ground Water	6020B	450744
310-303433-5	MW-17	Total/NA	Ground Water	6020B	450744
310-303433-6	MW-18R	Total/NA	Ground Water	6020B	450744
310-303433-7	MW-21	Total/NA	Ground Water	6020B	450744
310-303433-10	Leachate Sump	Total/NA	Water	6020B	450744
MB 310-450744/1-A	Method Blank	Total/NA	Water	6020B	450744
LCS 310-450744/2-A	Lab Control Sample	Total/NA	Water	6020B	450744

Analysis Batch: 451403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303433-1	MW-7	Total/NA	Ground Water	6020B	450744
310-303433-2	MW-11	Total/NA	Ground Water	6020B	450744
310-303433-3	MW-15	Total/NA	Ground Water	6020B	450744
310-303433-4	MW-16	Total/NA	Ground Water	6020B	450744
310-303433-5	MW-17	Total/NA	Ground Water	6020B	450744
310-303433-6	MW-18R	Total/NA	Ground Water	6020B	450744
310-303433-7	MW-21	Total/NA	Ground Water	6020B	450744
310-303433-10	Leachate Sump	Total/NA	Water	6020B	450744
MB 310-450744/1-A	Method Blank	Total/NA	Water	6020B	450744
LCS 310-450744/2-A	Lab Control Sample	Total/NA	Water	6020B	450744

General Chemistry

Analysis Batch: 450661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303433-1	MW-7	Total/NA	Ground Water	I-3765-85	
310-303433-2	MW-11	Total/NA	Ground Water	I-3765-85	
310-303433-3	MW-15	Total/NA	Ground Water	I-3765-85	
310-303433-4	MW-16	Total/NA	Ground Water	I-3765-85	
310-303433-5	MW-17	Total/NA	Ground Water	I-3765-85	
310-303433-6	MW-18R	Total/NA	Ground Water	I-3765-85	
310-303433-7	MW-21	Total/NA	Ground Water	I-3765-85	
310-303433-8	TW-3	Total/NA	Ground Water	I-3765-85	
310-303433-9	MW-D	Total/NA	Ground Water	I-3765-85	
310-303433-10	Leachate Sump	Total/NA	Water	I-3765-85	
MB 310-450661/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-450661/2	Lab Control Sample	Total/NA	Water	I-3765-85	
310-303433-2 DU	MW-11	Total/NA	Ground Water	I-3765-85	

Analysis Batch: 450759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303433-1	MW-7	Total/NA	Ground Water	350.1	
310-303433-2	MW-11	Total/NA	Ground Water	350.1	
310-303433-3	MW-15	Total/NA	Ground Water	350.1	
310-303433-4	MW-16	Total/NA	Ground Water	350.1	
310-303433-5	MW-17	Total/NA	Ground Water	350.1	
310-303433-6	MW-18R	Total/NA	Ground Water	350.1	
310-303433-7	MW-21	Total/NA	Ground Water	350.1	

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Spring 2025

Job ID: 310-303433-1
SDG: Climax Moly Landfill

General Chemistry (Continued)

Analysis Batch: 450759 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303433-8	TW-3	Total/NA	Ground Water	350.1	
310-303433-9	MW-D	Total/NA	Ground Water	350.1	
310-303433-10	Leachate Sump	Total/NA	Water	350.1	
MB 310-450759/100	Method Blank	Total/NA	Water	350.1	
MB 310-450759/128	Method Blank	Total/NA	Water	350.1	
LCS 310-450759/101	Lab Control Sample	Total/NA	Water	350.1	
LCS 310-450759/129	Lab Control Sample	Total/NA	Water	350.1	
310-303433-5 MS	MW-17	Total/NA	Ground Water	350.1	
310-303433-5 MSD	MW-17	Total/NA	Ground Water	350.1	

Analysis Batch: 451095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303433-1	MW-7	Total/NA	Ground Water	5220D LL	
310-303433-2	MW-11	Total/NA	Ground Water	5220D LL	
310-303433-3	MW-15	Total/NA	Ground Water	5220D LL	
310-303433-4	MW-16	Total/NA	Ground Water	5220D LL	
310-303433-5	MW-17	Total/NA	Ground Water	5220D LL	
310-303433-6	MW-18R	Total/NA	Ground Water	5220D LL	
310-303433-7	MW-21	Total/NA	Ground Water	5220D LL	
310-303433-8	TW-3	Total/NA	Ground Water	5220D LL	
310-303433-9	MW-D	Total/NA	Ground Water	5220D LL	
310-303433-10	Leachate Sump	Total/NA	Water	5220D LL	
MB 310-451095/5	Method Blank	Total/NA	Water	5220D LL	
MB 310-451095/60	Method Blank	Total/NA	Water	5220D LL	
LCS 310-451095/63	Lab Control Sample	Total/NA	Water	5220D LL	
310-303433-10 MS	Leachate Sump	Total/NA	Water	5220D LL	
310-303433-10 MSD	Leachate Sump	Total/NA	Water	5220D LL	

Lab Chronicle

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Spring 2025

Job ID: 310-303433-1
SDG: Climax Moly Landfill

Client Sample ID: MW-7

Date Collected: 04/01/25 13:50

Date Received: 04/03/25 16:50

Lab Sample ID: 310-303433-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	451132	WZC8	EET CF	04/08/25 19:52
Total/NA	Prep	3005A			450744	Y3EC	EET CF	04/07/25 09:30
Total/NA	Analysis	6020B		1	451313	NFT2	EET CF	04/10/25 19:45
Total/NA	Prep	3005A			450744	Y3EC	EET CF	04/07/25 09:30
Total/NA	Analysis	6020B		1	451403	NFT2	EET CF	04/11/25 14:02
Total/NA	Analysis	350.1		1	450759	WZC8	EET CF	04/04/25 20:54
Total/NA	Analysis	5220D LL		1	451095	HE7K	EET CF	04/09/25 10:39
Total/NA	Analysis	I-3765-85		1	450661	DGU1	EET CF	04/04/25 07:55

Client Sample ID: MW-11

Date Collected: 04/01/25 12:25

Date Received: 04/03/25 16:50

Lab Sample ID: 310-303433-2

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	451132	WZC8	EET CF	04/08/25 20:05
Total/NA	Prep	3005A			450744	Y3EC	EET CF	04/07/25 09:30
Total/NA	Analysis	6020B		1	451313	NFT2	EET CF	04/10/25 19:47
Total/NA	Prep	3005A			450744	Y3EC	EET CF	04/07/25 09:30
Total/NA	Analysis	6020B		1	451403	NFT2	EET CF	04/11/25 14:04
Total/NA	Analysis	350.1		1	450759	WZC8	EET CF	04/04/25 20:54
Total/NA	Analysis	5220D LL		2	451095	HE7K	EET CF	04/09/25 10:39
Total/NA	Analysis	I-3765-85		1	450661	DGU1	EET CF	04/04/25 07:55

Client Sample ID: MW-15

Date Collected: 04/01/25 13:11

Date Received: 04/03/25 16:50

Lab Sample ID: 310-303433-3

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	451618	WZC8	EET CF	04/10/25 14:46
Total/NA	Prep	3005A			450744	Y3EC	EET CF	04/07/25 09:30
Total/NA	Analysis	6020B		1	451313	NFT2	EET CF	04/10/25 19:49
Total/NA	Prep	3005A			450744	Y3EC	EET CF	04/07/25 09:30
Total/NA	Analysis	6020B		1	451403	NFT2	EET CF	04/11/25 14:07
Total/NA	Analysis	350.1		1	450759	WZC8	EET CF	04/04/25 20:56
Total/NA	Analysis	5220D LL		1	451095	HE7K	EET CF	04/09/25 10:39
Total/NA	Analysis	I-3765-85		1	450661	DGU1	EET CF	04/04/25 07:55

Client Sample ID: MW-16

Date Collected: 04/01/25 17:10

Date Received: 04/03/25 16:50

Lab Sample ID: 310-303433-4

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	451618	WZC8	EET CF	04/10/25 14:59

Eurofins Cedar Falls

Lab Chronicle

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Spring 2025

Job ID: 310-303433-1
SDG: Climax Moly Landfill

Client Sample ID: MW-16

Date Collected: 04/01/25 17:10

Date Received: 04/03/25 16:50

Lab Sample ID: 310-303433-4

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			450744	Y3EC	EET CF	04/07/25 09:30
Total/NA	Analysis	6020B		1	451313	NFT2	EET CF	04/10/25 19:52
Total/NA	Prep	3005A			450744	Y3EC	EET CF	04/07/25 09:30
Total/NA	Analysis	6020B		1	451403	NFT2	EET CF	04/11/25 14:09
Total/NA	Analysis	350.1		1	450759	WZC8	EET CF	04/04/25 20:56
Total/NA	Analysis	5220D LL		1	451095	HE7K	EET CF	04/09/25 10:39
Total/NA	Analysis	I-3765-85		1	450661	DGU1	EET CF	04/04/25 07:55

Client Sample ID: MW-17

Date Collected: 04/01/25 15:49

Date Received: 04/03/25 16:50

Lab Sample ID: 310-303433-5

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	451618	WZC8	EET CF	04/10/25 15:12
Total/NA	Prep	3005A			450744	Y3EC	EET CF	04/07/25 09:30
Total/NA	Analysis	6020B		1	451313	NFT2	EET CF	04/10/25 19:54
Total/NA	Prep	3005A			450744	Y3EC	EET CF	04/07/25 09:30
Total/NA	Analysis	6020B		1	451403	NFT2	EET CF	04/11/25 14:11
Total/NA	Analysis	350.1		1	450759	WZC8	EET CF	04/04/25 20:59
Total/NA	Analysis	5220D LL		1	451095	HE7K	EET CF	04/09/25 10:39
Total/NA	Analysis	I-3765-85		1	450661	DGU1	EET CF	04/04/25 07:55

Client Sample ID: MW-18R

Date Collected: 04/01/25 14:23

Date Received: 04/03/25 16:50

Lab Sample ID: 310-303433-6

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	451618	WZC8	EET CF	04/10/25 15:25
Total/NA	Prep	3005A			450744	Y3EC	EET CF	04/07/25 09:30
Total/NA	Analysis	6020B		1	451313	NFT2	EET CF	04/10/25 19:57
Total/NA	Prep	3005A			450744	Y3EC	EET CF	04/07/25 09:30
Total/NA	Analysis	6020B		1	451403	NFT2	EET CF	04/11/25 14:14
Total/NA	Analysis	350.1		1	450759	WZC8	EET CF	04/04/25 21:01
Total/NA	Analysis	5220D LL		1	451095	HE7K	EET CF	04/09/25 10:39
Total/NA	Analysis	I-3765-85		1	450661	DGU1	EET CF	04/04/25 07:55

Client Sample ID: MW-21

Date Collected: 04/01/25 16:26

Date Received: 04/03/25 16:50

Lab Sample ID: 310-303433-7

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		10	451618	WZC8	EET CF	04/10/25 15:38
Total/NA	Prep	3005A			450744	Y3EC	EET CF	04/07/25 09:30
Total/NA	Analysis	6020B		1	451313	NFT2	EET CF	04/10/25 19:59

Eurofins Cedar Falls

Lab Chronicle

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Spring 2025

Job ID: 310-303433-1
SDG: Climax Moly Landfill

Client Sample ID: MW-21

Lab Sample ID: 310-303433-7

Date Collected: 04/01/25 16:26

Matrix: Ground Water

Date Received: 04/03/25 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			450744	Y3EC	EET CF	04/07/25 09:30
Total/NA	Analysis	6020B		1	451403	NFT2	EET CF	04/11/25 14:16
Total/NA	Analysis	350.1		1	450759	WZC8	EET CF	04/04/25 21:04
Total/NA	Analysis	5220D LL		1	451095	HE7K	EET CF	04/09/25 10:39
Total/NA	Analysis	I-3765-85		1	450661	DGU1	EET CF	04/04/25 07:55

Client Sample ID: TW-3

Lab Sample ID: 310-303433-8

Date Collected: 04/01/25 15:08

Matrix: Ground Water

Date Received: 04/03/25 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	451618	WZC8	EET CF	04/10/25 15:51
Total/NA	Prep	3005A			450884	QTZ5	EET CF	04/08/25 09:00
Total/NA	Analysis	6020B		1	451166	NFT2	EET CF	04/09/25 18:15
Total/NA	Analysis	350.1		1	450759	WZC8	EET CF	04/04/25 21:04
Total/NA	Analysis	5220D LL		1	451095	HE7K	EET CF	04/09/25 10:39
Total/NA	Analysis	I-3765-85		1	450661	DGU1	EET CF	04/04/25 07:55

Client Sample ID: MW-D

Lab Sample ID: 310-303433-9

Date Collected: 04/01/25 15:49

Matrix: Ground Water

Date Received: 04/03/25 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	451618	WZC8	EET CF	04/10/25 16:31
Total/NA	Prep	3005A			450884	QTZ5	EET CF	04/08/25 09:00
Total/NA	Analysis	6020B		1	451166	NFT2	EET CF	04/09/25 18:17
Total/NA	Analysis	350.1		1	450759	WZC8	EET CF	04/04/25 21:06
Total/NA	Analysis	5220D LL		1	451095	HE7K	EET CF	04/09/25 10:39
Total/NA	Analysis	I-3765-85		1	450661	DGU1	EET CF	04/04/25 07:55

Client Sample ID: Leachate Sump

Lab Sample ID: 310-303433-10

Date Collected: 04/01/25 15:15

Matrix: Water

Date Received: 04/03/25 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		50	451137	WZC8	EET CF	04/09/25 12:11
Total/NA	Prep	3005A			450744	Y3EC	EET CF	04/07/25 09:30
Total/NA	Analysis	6020B		1	451313	NFT2	EET CF	04/10/25 20:01
Total/NA	Prep	3005A			450744	Y3EC	EET CF	04/07/25 09:30
Total/NA	Analysis	6020B		4	451403	NFT2	EET CF	04/11/25 14:26
Total/NA	Analysis	350.1		1	450759	WZC8	EET CF	04/04/25 21:06
Total/NA	Analysis	5220D LL		1	451095	HE7K	EET CF	04/09/25 10:39
Total/NA	Analysis	I-3765-85		1	450661	DGU1	EET CF	04/04/25 07:55

Eurofins Cedar Falls

Lab Chronicle

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Spring 2025

Job ID: 310-303433-1
SDG: Climax Moly Landfill

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

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Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Spring 2025

Job ID: 310-303433-1
SDG: Climax Moly Landfill

Laboratory: Eurofins Cedar Falls

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

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
6020B	3005A	Ground Water	Lithium
6020B	3005A	Water	Lithium

Method Summary

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Spring 2025

Job ID: 310-303433-1
SDG: Climax Moly 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
I-3765-85	Residue, Non-filterable (TSS)	USGS	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.

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

Laboratory References:

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



Environment Testing
America



310-303433 Chain of Custody

Cooler/Sample Receipt and Temperature

Client Information			
Client: <u>SCS</u>			
City/State: <u>W Des Moines</u>	<u>IA</u>	Project:	
Receipt Information			
Date/Time Received: <u>4/3/25</u>	<u>1650</u>	Received By: <u>XB</u>	
Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		☒ Yes ☐ No If yes: Cooler ID.	
Multiple Coolers?		☒ Yes ☒ No If yes: Cooler # <u>1</u> of <u>2</u>	
Cooler Custody Seals Present?		☐ Yes ☒ No If yes: Cooler custody seals intact? ☐ Yes ☐ No	
Sample Custody Seals Present?		☐ Yes ☒ No If yes: Sample custody seals intact? ☐ Yes ☐ No	
Trip Blank Present?		☐ Yes ☒ No If yes: Which VOA samples are in cooler? ↓	
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID <u>2</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>1.4</u>		Corrected Temp (°C): <u>1.4</u>	
• Sample Container Temperature			
Container(s) used:	<u>CONTAINER 1</u>	<u>CONTAINER 2</u>	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE If yes, contact PM before proceeding If no, proceed with login			
Additional Comments			

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>SCS</u>			
City/State:	<u>W Des Moines IA</u>	Project:	
Receipt Information			
Date/Time Received:	<u>4/3/25</u>	TIME:	<u>1650</u>
Received By:		<u>XB</u>	
Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		If yes: Cooler ID:	
☒ Yes ☐ No			
Multiple Coolers?		If yes: Cooler # <u>2</u> of <u>2</u>	
☒ Yes ☐ No			
Cooler Custody Seals Present?		If yes: Cooler custody seals intact?	
☐ Yes ☒ No		☐ Yes ☐ No	
Sample Custody Seals Present?		If yes: Sample custody seals intact?	
☐ Yes ☒ No		☐ Yes ☐ No	
Trip Blank Present?		If yes: Which VOA samples are in cooler? ↓	
☐ Yes ☒ No			
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>2</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>4.3</u>		Corrected Temp (°C): <u>4.3</u>	
• Sample Container Temperature			
Container(s) used:	<u>CONTAINER 1</u>	<u>CONTAINER 2</u>	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No			
a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE If yes, contact PM before proceeding If no, proceed with login			
Additional Comments			

Eurofins TestAmerica, Cedar Falls
3019 Venture Way

Cedar Falls, IA 50613-6907
phone 319.277.2401 fax 319.277.2425

Chain of Custody Record



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

Groundwater

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Dher

Project Manager:		Site Contact:		Date:		COC No:	
Email:		Lab Contact:		Carrier:		1 of 1 COCs	
Cell		Analysis Turnaround Time		Sampler		For Lab Use Only:	
☐ CALENDAR DAYS ☐ WORKING DAYS		Other:		Walk-in Client:		Lab Sampling	
☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day				Job / SDG No			
Project Name: Climax Moly Landfill Sampling Spring 2025							
Site Climax Moly Landfill							
P O #							
Sample Identification		Sample Date	Sample Time	Sample Type (C-Cont, G-Grab)	Matrix	# of Cont.	Sample Specific Notes
MW-7	4-1-25	1:50		G	GW		
MW-11	4-1-25	12:25		G	GW		
MW-15	4-1-25	1:11		G	GW		
MW-16	4-1-25	5:10		G	GW		
MW-17	4-1-25	3:49		G	GW		
MW-18R	4-1-25	2:23		G	GW		
MW-21	4-1-25	4:26		G	GW		
TW-3	4-1-25	3:06		G	GW		
MW-D	4-1-25	3:49		G	GW		
Leachate Sump	4-1-25	3:15		G	L		
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other							
Possible Hazard Identification:							
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample							
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown							
Special Instructions/QC Requirements & Comments:							
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.		Cooler Temp (°C) Obs'd		Therm ID No	
Relinquished by: Garrett Horan		Company: SCS		Received by:		Company:	
Relinquished by:		Company:		Received by:		Company:	
Relinquished by:		Company:		Received in Laboratory by: HA		Date/Time: 4-3-25 1650	

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-303433-1
SDG Number: Climax Moly Landfill

Login Number: 303433

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	

ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/21/2025 4:37:44 PM

JOB DESCRIPTION

Climax Moly Landfill Sampling Fall 2025
Climax Molybdenum Landfill

JOB NUMBER

310-312991-1

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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8/21/2025 4:37:44 PM

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

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Case Narrative

Client: SCS Engineers
Project: Climax Moly Landfill Sampling Fall 2025

Job ID: 310-312991-1

Job ID: 310-312991-1

Eurofins Cedar Falls

Job Narrative 310-312991-1

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

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

Receipt

The samples were received on 8/8/2025 4:20 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.7°C.

HPLC/IC

Method 9056A_ORGFM_28D: The following samples were diluted due to the nature of the sample matrix: MW-11 (310-312991-2) and TW-3 (310-312991-8). Elevated reporting limits (RLs) are provided.

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

Metals

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

General Chemistry

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

Eurofins Cedar Falls

Sample Summary

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Fall 2025

Job ID: 310-312991-1
SDG: Climax Molybdenum Landfill

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
310-312991-1	MW-7	Water	08/06/25 15:21	08/08/25 16:20	Iowa
310-312991-2	MW-11	Water	08/06/25 14:20	08/08/25 16:20	Iowa
310-312991-3	MW-15	Water	08/06/25 14:54	08/08/25 16:20	Iowa
310-312991-4	MW-16	Water	08/06/25 13:46	08/08/25 16:20	Iowa
310-312991-5	MW-17	Water	08/06/25 17:54	08/08/25 16:20	Iowa
310-312991-6	MW-18R	Water	08/06/25 15:57	08/08/25 16:20	Iowa
310-312991-7	MW-21	Water	08/06/25 17:13	08/08/25 16:20	Iowa
310-312991-8	TW-3	Water	08/06/25 16:37	08/08/25 16:20	Iowa
310-312991-9	MW-D	Water	08/06/25 17:54	08/08/25 16:20	Iowa
310-312991-10	Leachate Sump	Water	08/06/25 18:15	08/08/25 16:20	Iowa

Detection Summary

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Fall 2025

Job ID: 310-312991-1
SDG: Climax Molybdenum Landfill

Client Sample ID: MW-7

Lab Sample ID: 310-312991-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2.67	J	5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	90.7		5.00	2.10	mg/L	5		9056A	Total/NA
Arsenic	0.000952	J	0.00200	0.000530	mg/L	1		200.8	Total/NA
Iron	0.863		0.100	0.0500	mg/L	1		200.8	Total/NA
Lithium	0.0240		0.0100	0.00290	mg/L	1		200.8	Total/NA
Manganese	1.80		0.0100	0.00360	mg/L	1		200.8	Total/NA
Molybdenum	0.00183	J	0.00200	0.00130	mg/L	1		200.8	Total/NA
Sodium	51.4		1.00	0.650	mg/L	1		200.8	Total/NA
Strontium	0.528		0.00100	0.000530	mg/L	1		200.8	Total/NA
Chemical Oxygen Demand	15.2		5.00	4.60	mg/L	1		5220D LL	Total/NA
Total Suspended Solids	4.50		1.88	1.31	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-11

Lab Sample ID: 310-312991-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	22.3		5.00	2.25	mg/L	5		9056A	Total/NA
Arsenic	0.0106		0.00200	0.000530	mg/L	1		200.8	Total/NA
Iron	55.1		0.100	0.0500	mg/L	1		200.8	Total/NA
Lithium	0.00371	J	0.0100	0.00290	mg/L	1		200.8	Total/NA
Manganese	3.62		0.0100	0.00360	mg/L	1		200.8	Total/NA
Molybdenum	0.00155	J	0.00200	0.00130	mg/L	1		200.8	Total/NA
Selenium	0.00219	J	0.00500	0.00140	mg/L	1		200.8	Total/NA
Sodium	71.7		1.00	0.650	mg/L	1		200.8	Total/NA
Strontium	0.584		0.00100	0.000530	mg/L	1		200.8	Total/NA
Ammonia	8.59		1.88	1.03	mg/L	9.38		350.1	Total/NA
Chemical Oxygen Demand	232		50.0	46.0	mg/L	10		5220D LL	Total/NA
Total Suspended Solids	108		60.0	42.0	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-15

Lab Sample ID: 310-312991-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.50		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	137		5.00	2.10	mg/L	5		9056A	Total/NA
Arsenic	0.000569	J	0.00200	0.000530	mg/L	1		200.8	Total/NA
Iron	0.0668	J	0.100	0.0500	mg/L	1		200.8	Total/NA
Lithium	0.0346		0.0100	0.00290	mg/L	1		200.8	Total/NA
Manganese	0.0251		0.0100	0.00360	mg/L	1		200.8	Total/NA
Molybdenum	0.00193	J	0.00200	0.00130	mg/L	1		200.8	Total/NA
Sodium	48.6		1.00	0.650	mg/L	1		200.8	Total/NA
Strontium	0.480		0.00100	0.000530	mg/L	1		200.8	Total/NA
Chemical Oxygen Demand	12.1		5.00	4.60	mg/L	1		5220D LL	Total/NA
Total Suspended Solids	4.00		1.88	1.31	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-16

Lab Sample ID: 310-312991-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.86		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	458		5.00	2.10	mg/L	5		9056A	Total/NA
Arsenic	0.000765	J	0.00200	0.000530	mg/L	1		200.8	Total/NA
Lithium	0.0335		0.0100	0.00290	mg/L	1		200.8	Total/NA
Manganese	0.0317		0.0100	0.00360	mg/L	1		200.8	Total/NA
Sodium	69.5		1.00	0.650	mg/L	1		200.8	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Fall 2025

Job ID: 310-312991-1
SDG: Climax Molybdenum Landfill

Client Sample ID: MW-16 (Continued)

Lab Sample ID: 310-312991-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Strontium	0.619		0.00100	0.000530	mg/L	1		200.8	Total/NA

Client Sample ID: MW-17

Lab Sample ID: 310-312991-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.73		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	257		5.00	2.10	mg/L	5		9056A	Total/NA
Arsenic	0.000729	J	0.00200	0.000530	mg/L	1		200.8	Total/NA
Iron	0.121		0.100	0.0500	mg/L	1		200.8	Total/NA
Lithium	0.0628		0.0100	0.00290	mg/L	1		200.8	Total/NA
Manganese	1.17		0.0100	0.00360	mg/L	1		200.8	Total/NA
Selenium	0.00839		0.00500	0.00140	mg/L	1		200.8	Total/NA
Sodium	62.1		1.00	0.650	mg/L	1		200.8	Total/NA
Strontium	0.558		0.00100	0.000530	mg/L	1		200.8	Total/NA
Ammonia	2.88		0.200	0.110	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	26.4		5.00	4.60	mg/L	1		5220D LL	Total/NA
Total Suspended Solids	2.50		1.88	1.31	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-18R

Lab Sample ID: 310-312991-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.87		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	47.6		5.00	2.10	mg/L	5		9056A	Total/NA
Arsenic	0.000675	J	0.00200	0.000530	mg/L	1		200.8	Total/NA
Iron	0.405		0.100	0.0500	mg/L	1		200.8	Total/NA
Lithium	0.0299		0.0100	0.00290	mg/L	1		200.8	Total/NA
Manganese	0.0978		0.0100	0.00360	mg/L	1		200.8	Total/NA
Selenium	0.0448		0.00500	0.00140	mg/L	1		200.8	Total/NA
Sodium	44.6		1.00	0.650	mg/L	1		200.8	Total/NA
Strontium	0.287		0.00100	0.000530	mg/L	1		200.8	Total/NA
Total Suspended Solids	66.3		3.75	2.63	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-21

Lab Sample ID: 310-312991-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	21.3		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	319		5.00	2.10	mg/L	5		9056A	Total/NA
Lithium	0.0165		0.0100	0.00290	mg/L	1		200.8	Total/NA
Manganese	0.0428		0.0100	0.00360	mg/L	1		200.8	Total/NA
Molybdenum	0.00219		0.00200	0.00130	mg/L	1		200.8	Total/NA
Selenium	0.0254		0.00500	0.00140	mg/L	1		200.8	Total/NA
Sodium	59.1		1.00	0.650	mg/L	1		200.8	Total/NA
Strontium	0.495		0.00100	0.000530	mg/L	1		200.8	Total/NA
Chemical Oxygen Demand	5.52		5.00	4.60	mg/L	1		5220D LL	Total/NA

Client Sample ID: TW-3

Lab Sample ID: 310-312991-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	21.3		5.00	2.10	mg/L	5		9056A	Total/NA
Arsenic	0.000920	J	0.00200	0.000530	mg/L	1		200.8	Total/NA
Iron	0.190		0.100	0.0500	mg/L	1		200.8	Total/NA
Lithium	0.0270		0.0100	0.00290	mg/L	1		200.8	Total/NA
Manganese	0.0804		0.0100	0.00360	mg/L	1		200.8	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Fall 2025

Job ID: 310-312991-1
SDG: Climax Molybdenum Landfill

Client Sample ID: TW-3 (Continued)

Lab Sample ID: 310-312991-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Molybdenum	0.00221		0.00200	0.00130	mg/L	1		200.8	Total/NA
Sodium	56.8		1.00	0.650	mg/L	1		200.8	Total/NA
Strontium	0.284		0.00100	0.000530	mg/L	1		200.8	Total/NA
Chemical Oxygen Demand	11.1		5.00	4.60	mg/L	1		5220D LL	Total/NA
Total Suspended Solids	11.5		3.75	2.63	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-D

Lab Sample ID: 310-312991-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	51.7		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	350		20.0	8.40	mg/L	20		9056A	Total/NA
Arsenic	0.000780	J	0.00200	0.000530	mg/L	1		200.8	Total/NA
Iron	0.176		0.100	0.0500	mg/L	1		200.8	Total/NA
Lithium	0.0691		0.0100	0.00290	mg/L	1		200.8	Total/NA
Manganese	1.84		0.0100	0.00360	mg/L	1		200.8	Total/NA
Selenium	0.00155	J	0.00500	0.00140	mg/L	1		200.8	Total/NA
Sodium	54.5		1.00	0.650	mg/L	1		200.8	Total/NA
Strontium	0.648		0.00100	0.000530	mg/L	1		200.8	Total/NA
Ammonia	1.35		0.200	0.110	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	20.1		5.00	4.60	mg/L	1		5220D LL	Total/NA
Total Suspended Solids	3.38		1.88	1.31	mg/L	1		I-3765-85	Total/NA

Client Sample ID: Leachate Sump

Lab Sample ID: 310-312991-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.59		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	338		5.00	2.10	mg/L	5		9056A	Total/NA
Arsenic	0.00816		0.00200	0.000530	mg/L	1		200.8	Total/NA
Cadmium	0.00297		0.000200	0.000100	mg/L	1		200.8	Total/NA
Iron	1.71		0.100	0.0500	mg/L	1		200.8	Total/NA
Lithium	0.0108		0.0100	0.00290	mg/L	1		200.8	Total/NA
Manganese	2.65		0.0700	0.0252	mg/L	7		200.8	Total/NA
Molybdenum	9.42		0.0140	0.00910	mg/L	7		200.8	Total/NA
Selenium	1.07		0.0350	0.00980	mg/L	7		200.8	Total/NA
Sodium	567		7.00	4.55	mg/L	7		200.8	Total/NA
Strontium	1.45		0.00100	0.000530	mg/L	1		200.8	Total/NA
Ammonia as N	1.02		0.500	0.120	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	294		250	230	mg/L	50		5220D LL	Total/NA
Total Suspended Solids	1370		30.0	21.0	mg/L	1		I-3765-85	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Fall 2025

Job ID: 310-312991-1
SDG: Climax Molybdenum Landfill

Client Sample ID: MW-7

Lab Sample ID: 310-312991-1

Date Collected: 08/06/25 15:21

Matrix: Water

Date Received: 08/08/25 16:20

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.67	J	5.00	2.25	mg/L			08/20/25 17:25	5
Sulfate	90.7		5.00	2.10	mg/L			08/20/25 17:25	5

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000952	J	0.00200	0.000530	mg/L		08/15/25 09:00	08/18/25 19:49	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		08/15/25 09:00	08/18/25 19:49	1
Iron	0.863		0.100	0.0500	mg/L		08/15/25 09:00	08/18/25 19:49	1
Lithium	0.0240		0.0100	0.00290	mg/L		08/15/25 09:00	08/18/25 19:49	1
Manganese	1.80		0.0100	0.00360	mg/L		08/15/25 09:00	08/18/25 19:49	1
Molybdenum	0.00183	J	0.00200	0.00130	mg/L		08/15/25 09:00	08/18/25 19:49	1
Selenium	<0.00500		0.00500	0.00140	mg/L		08/15/25 09:00	08/18/25 19:49	1
Sodium	51.4		1.00	0.650	mg/L		08/15/25 09:00	08/19/25 16:57	1
Strontium	0.528		0.00100	0.000530	mg/L		08/15/25 09:00	08/18/25 19:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200	F1	0.200	0.110	mg/L			08/11/25 18:27	1
Chemical Oxygen Demand (SM 5220D LL)	15.2		5.00	4.60	mg/L			08/13/25 09:46	1
Total Suspended Solids (USGS I-3765-85)	4.50		1.88	1.31	mg/L			08/11/25 14:41	1

Client Sample Results

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Fall 2025

Job ID: 310-312991-1
SDG: Climax Molybdenum Landfill

Client Sample ID: MW-11

Lab Sample ID: 310-312991-2

Date Collected: 08/06/25 14:20

Matrix: Water

Date Received: 08/08/25 16:20

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.3		5.00	2.25	mg/L			08/20/25 17:37	5
Sulfate	<5.00		5.00	2.10	mg/L			08/20/25 17:37	5

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0106		0.00200	0.000530	mg/L		08/15/25 09:00	08/18/25 20:00	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		08/15/25 09:00	08/18/25 20:00	1
Iron	55.1		0.100	0.0500	mg/L		08/15/25 09:00	08/18/25 20:00	1
Lithium	0.00371	J	0.0100	0.00290	mg/L		08/15/25 09:00	08/18/25 20:00	1
Manganese	3.62		0.0100	0.00360	mg/L		08/15/25 09:00	08/18/25 20:00	1
Molybdenum	0.00155	J	0.00200	0.00130	mg/L		08/15/25 09:00	08/18/25 20:00	1
Selenium	0.00219	J	0.00500	0.00140	mg/L		08/15/25 09:00	08/18/25 20:00	1
Sodium	71.7		1.00	0.650	mg/L		08/15/25 09:00	08/19/25 17:05	1
Strontium	0.584		0.00100	0.000530	mg/L		08/15/25 09:00	08/18/25 20:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	8.59		1.88	1.03	mg/L			08/11/25 18:29	9.38
Chemical Oxygen Demand (SM 5220D LL)	232		50.0	46.0	mg/L			08/13/25 14:27	10
Total Suspended Solids (USGS I-3765-85)	108		60.0	42.0	mg/L			08/11/25 14:41	1

Client Sample Results

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Fall 2025

Job ID: 310-312991-1
SDG: Climax Molybdenum Landfill

Client Sample ID: MW-15

Lab Sample ID: 310-312991-3

Date Collected: 08/06/25 14:54

Matrix: Water

Date Received: 08/08/25 16:20

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.50		5.00	2.25	mg/L			08/20/25 17:49	5
Sulfate	137		5.00	2.10	mg/L			08/20/25 17:49	5

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000569	J	0.00200	0.000530	mg/L		08/15/25 09:00	08/18/25 20:02	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		08/15/25 09:00	08/18/25 20:02	1
Iron	0.0668	J	0.100	0.0500	mg/L		08/15/25 09:00	08/18/25 20:02	1
Lithium	0.0346		0.0100	0.00290	mg/L		08/15/25 09:00	08/18/25 20:02	1
Manganese	0.0251		0.0100	0.00360	mg/L		08/15/25 09:00	08/18/25 20:02	1
Molybdenum	0.00193	J	0.00200	0.00130	mg/L		08/15/25 09:00	08/18/25 20:02	1
Selenium	<0.00500		0.00500	0.00140	mg/L		08/15/25 09:00	08/18/25 20:02	1
Sodium	48.6		1.00	0.650	mg/L		08/15/25 09:00	08/19/25 17:08	1
Strontium	0.480		0.00100	0.000530	mg/L		08/15/25 09:00	08/18/25 20:02	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			08/11/25 18:30	1
Chemical Oxygen Demand (SM 5220D LL)	12.1		5.00	4.60	mg/L			08/13/25 09:46	1
Total Suspended Solids (USGS I-3765-85)	4.00		1.88	1.31	mg/L			08/11/25 14:41	1

Client Sample Results

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Fall 2025

Job ID: 310-312991-1
SDG: Climax Molybdenum Landfill

Client Sample ID: MW-16

Lab Sample ID: 310-312991-4

Date Collected: 08/06/25 13:46

Matrix: Water

Date Received: 08/08/25 16:20

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.86		5.00	2.25	mg/L			08/20/25 18:00	5
Sulfate	458		5.00	2.10	mg/L			08/20/25 18:00	5

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000765	J	0.00200	0.000530	mg/L		08/15/25 09:00	08/18/25 20:05	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		08/15/25 09:00	08/18/25 20:05	1
Iron	<0.100		0.100	0.0500	mg/L		08/15/25 09:00	08/18/25 20:05	1
Lithium	0.0335		0.0100	0.00290	mg/L		08/15/25 09:00	08/18/25 20:05	1
Manganese	0.0317		0.0100	0.00360	mg/L		08/15/25 09:00	08/18/25 20:05	1
Molybdenum	<0.00200		0.00200	0.00130	mg/L		08/15/25 09:00	08/18/25 20:05	1
Selenium	<0.00500		0.00500	0.00140	mg/L		08/15/25 09:00	08/18/25 20:05	1
Sodium	69.5		1.00	0.650	mg/L		08/15/25 09:00	08/19/25 17:10	1
Strontium	0.619		0.00100	0.000530	mg/L		08/15/25 09:00	08/18/25 20:05	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			08/11/25 18:30	1
Chemical Oxygen Demand (SM 5220D LL)	<5.00		5.00	4.60	mg/L			08/13/25 09:46	1
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.31	mg/L			08/11/25 14:41	1

Client Sample Results

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Fall 2025

Job ID: 310-312991-1
SDG: Climax Molybdenum Landfill

Client Sample ID: MW-17

Lab Sample ID: 310-312991-5

Date Collected: 08/06/25 17:54

Matrix: Water

Date Received: 08/08/25 16:20

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.73		5.00	2.25	mg/L			08/20/25 18:12	5
Sulfate	257		5.00	2.10	mg/L			08/20/25 18:12	5

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000729	J	0.00200	0.000530	mg/L		08/15/25 09:00	08/18/25 20:07	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		08/15/25 09:00	08/18/25 20:07	1
Iron	0.121		0.100	0.0500	mg/L		08/15/25 09:00	08/18/25 20:07	1
Lithium	0.0628		0.0100	0.00290	mg/L		08/15/25 09:00	08/18/25 20:07	1
Manganese	1.17		0.0100	0.00360	mg/L		08/15/25 09:00	08/18/25 20:07	1
Molybdenum	<0.00200		0.00200	0.00130	mg/L		08/15/25 09:00	08/18/25 20:07	1
Selenium	0.00839		0.00500	0.00140	mg/L		08/15/25 09:00	08/18/25 20:07	1
Sodium	62.1		1.00	0.650	mg/L		08/15/25 09:00	08/19/25 17:13	1
Strontium	0.558		0.00100	0.000530	mg/L		08/15/25 09:00	08/18/25 20:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	2.88		0.200	0.110	mg/L			08/11/25 18:32	1
Chemical Oxygen Demand (SM 5220D LL)	26.4		5.00	4.60	mg/L			08/13/25 09:46	1
Total Suspended Solids (USGS I-3765-85)	2.50		1.88	1.31	mg/L			08/11/25 14:41	1

Client Sample Results

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Fall 2025

Job ID: 310-312991-1
SDG: Climax Molybdenum Landfill

Client Sample ID: MW-18R

Lab Sample ID: 310-312991-6

Date Collected: 08/06/25 15:57

Matrix: Water

Date Received: 08/08/25 16:20

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.87		5.00	2.25	mg/L			08/20/25 18:23	5
Sulfate	47.6		5.00	2.10	mg/L			08/20/25 18:23	5

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000675	J	0.00200	0.000530	mg/L		08/15/25 09:00	08/18/25 20:10	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		08/15/25 09:00	08/18/25 20:10	1
Iron	0.405		0.100	0.0500	mg/L		08/15/25 09:00	08/18/25 20:10	1
Lithium	0.0299		0.0100	0.00290	mg/L		08/15/25 09:00	08/18/25 20:10	1
Manganese	0.0978		0.0100	0.00360	mg/L		08/15/25 09:00	08/18/25 20:10	1
Molybdenum	<0.00200		0.00200	0.00130	mg/L		08/15/25 09:00	08/18/25 20:10	1
Selenium	0.0448		0.00500	0.00140	mg/L		08/15/25 09:00	08/18/25 20:10	1
Sodium	44.6		1.00	0.650	mg/L		08/15/25 09:00	08/19/25 17:15	1
Strontium	0.287		0.00100	0.000530	mg/L		08/15/25 09:00	08/18/25 20:10	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			08/11/25 18:32	1
Chemical Oxygen Demand (SM 5220D LL)	<5.00		5.00	4.60	mg/L			08/13/25 09:46	1
Total Suspended Solids (USGS I-3765-85)	66.3		3.75	2.63	mg/L			08/11/25 14:41	1

Client Sample Results

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Fall 2025

Job ID: 310-312991-1
SDG: Climax Molybdenum Landfill

Client Sample ID: MW-21

Lab Sample ID: 310-312991-7

Date Collected: 08/06/25 17:13

Matrix: Water

Date Received: 08/08/25 16:20

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.3		5.00	2.25	mg/L			08/20/25 18:35	5
Sulfate	319		5.00	2.10	mg/L			08/20/25 18:35	5

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		08/15/25 09:00	08/18/25 20:18	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		08/15/25 09:00	08/18/25 20:18	1
Iron	<0.100		0.100	0.0500	mg/L		08/15/25 09:00	08/18/25 20:18	1
Lithium	0.0165		0.0100	0.00290	mg/L		08/15/25 09:00	08/18/25 20:18	1
Manganese	0.0428		0.0100	0.00360	mg/L		08/15/25 09:00	08/19/25 17:18	1
Molybdenum	0.00219		0.00200	0.00130	mg/L		08/15/25 09:00	08/18/25 20:18	1
Selenium	0.0254		0.00500	0.00140	mg/L		08/15/25 09:00	08/18/25 20:18	1
Sodium	59.1		1.00	0.650	mg/L		08/15/25 09:00	08/18/25 20:18	1
Strontium	0.495		0.00100	0.000530	mg/L		08/15/25 09:00	08/18/25 20:18	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			08/11/25 18:34	1
Chemical Oxygen Demand (SM 5220D LL)	5.52		5.00	4.60	mg/L			08/13/25 09:46	1
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.31	mg/L			08/11/25 12:52	1

Client Sample Results

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Fall 2025

Job ID: 310-312991-1
SDG: Climax Molybdenum Landfill

Client Sample ID: TW-3

Lab Sample ID: 310-312991-8

Date Collected: 08/06/25 16:37

Matrix: Water

Date Received: 08/08/25 16:20

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			08/20/25 18:47	5
Sulfate	21.3		5.00	2.10	mg/L			08/20/25 18:47	5

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000920	J	0.00200	0.000530	mg/L		08/15/25 09:00	08/18/25 20:20	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		08/15/25 09:00	08/18/25 20:20	1
Iron	0.190		0.100	0.0500	mg/L		08/15/25 09:00	08/18/25 20:20	1
Lithium	0.0270		0.0100	0.00290	mg/L		08/15/25 09:00	08/18/25 20:20	1
Manganese	0.0804		0.0100	0.00360	mg/L		08/15/25 09:00	08/19/25 17:20	1
Molybdenum	0.00221		0.00200	0.00130	mg/L		08/15/25 09:00	08/18/25 20:20	1
Selenium	<0.00500		0.00500	0.00140	mg/L		08/15/25 09:00	08/18/25 20:20	1
Sodium	56.8		1.00	0.650	mg/L		08/15/25 09:00	08/18/25 20:20	1
Strontium	0.284		0.00100	0.000530	mg/L		08/15/25 09:00	08/18/25 20:20	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			08/11/25 18:35	1
Chemical Oxygen Demand (SM 5220D LL)	11.1		5.00	4.60	mg/L			08/13/25 09:46	1
Total Suspended Solids (USGS I-3765-85)	11.5		3.75	2.63	mg/L			08/11/25 12:52	1

Client Sample Results

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Fall 2025

Job ID: 310-312991-1
SDG: Climax Molybdenum Landfill

Client Sample ID: MW-D

Lab Sample ID: 310-312991-9

Date Collected: 08/06/25 17:54

Matrix: Water

Date Received: 08/08/25 16:20

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.7		5.00	2.25	mg/L			08/20/25 19:21	5
Sulfate	350		20.0	8.40	mg/L			08/21/25 11:41	20

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000780	J	0.00200	0.000530	mg/L		08/15/25 09:00	08/18/25 20:23	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		08/15/25 09:00	08/18/25 20:23	1
Iron	0.176		0.100	0.0500	mg/L		08/15/25 09:00	08/18/25 20:23	1
Lithium	0.0691		0.0100	0.00290	mg/L		08/15/25 09:00	08/18/25 20:23	1
Manganese	1.84		0.0100	0.00360	mg/L		08/15/25 09:00	08/19/25 17:28	1
Molybdenum	<0.00200		0.00200	0.00130	mg/L		08/15/25 09:00	08/18/25 20:23	1
Selenium	0.00155	J	0.00500	0.00140	mg/L		08/15/25 09:00	08/18/25 20:23	1
Sodium	54.5		1.00	0.650	mg/L		08/15/25 09:00	08/18/25 20:23	1
Strontium	0.648		0.00100	0.000530	mg/L		08/15/25 09:00	08/18/25 20:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	1.35		0.200	0.110	mg/L			08/11/25 18:36	1
Chemical Oxygen Demand (SM 5220D LL)	20.1		5.00	4.60	mg/L			08/13/25 09:46	1
Total Suspended Solids (USGS I-3765-85)	3.38		1.88	1.31	mg/L			08/11/25 14:41	1

Client Sample Results

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Fall 2025

Job ID: 310-312991-1
SDG: Climax Molybdenum Landfill

Client Sample ID: Leachate Sump

Lab Sample ID: 310-312991-10

Date Collected: 08/06/25 18:15

Matrix: Water

Date Received: 08/08/25 16:20

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.59		5.00	2.25	mg/L			08/20/25 19:33	5
Sulfate	338		5.00	2.10	mg/L			08/20/25 19:33	5

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00816		0.00200	0.000530	mg/L		08/15/25 09:00	08/18/25 20:25	1
Cadmium	0.00297		0.000200	0.000100	mg/L		08/15/25 09:00	08/18/25 20:25	1
Iron	1.71		0.100	0.0500	mg/L		08/15/25 09:00	08/18/25 20:25	1
Lithium	0.0108		0.0100	0.00290	mg/L		08/15/25 09:00	08/18/25 20:25	1
Manganese	2.65		0.0700	0.0252	mg/L		08/15/25 09:00	08/19/25 17:31	7
Molybdenum	9.42		0.0140	0.00910	mg/L		08/15/25 09:00	08/19/25 17:31	7
Selenium	1.07		0.0350	0.00980	mg/L		08/15/25 09:00	08/19/25 17:31	7
Sodium	567		7.00	4.55	mg/L		08/15/25 09:00	08/19/25 17:31	7
Strontium	1.45		0.00100	0.000530	mg/L		08/15/25 09:00	08/18/25 20:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	1.02		0.500	0.120	mg/L			08/14/25 15:37	1
Chemical Oxygen Demand (SM 5220D LL)	294		250	230	mg/L			08/13/25 09:46	50
Total Suspended Solids (USGS I-3765-85)	1370		30.0	21.0	mg/L			08/11/25 14:41	1

Definitions/Glossary

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Fall 2025

Job ID: 310-312991-1
SDG: Climax Molybdenum 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
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
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.

Glossary

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

QC Sample Results

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Fall 2025

Job ID: 310-312991-1
SDG: Climax Molybdenum Landfill

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 310-464402/3

Matrix: Water

Analysis Batch: 464402

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			08/20/25 15:00	1
Sulfate	<1.00		1.00	0.420	mg/L			08/20/25 15:00	1

Lab Sample ID: LCS 310-464402/4

Matrix: Water

Analysis Batch: 464402

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	9.795		mg/L		98	90 - 110
Sulfate	10.0	10.04		mg/L		100	90 - 110

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 310-463581/1-A

Matrix: Water

Analysis Batch: 464028

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 463581

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		08/15/25 09:00	08/18/25 19:39	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		08/15/25 09:00	08/18/25 19:39	1
Iron	<0.100		0.100	0.0500	mg/L		08/15/25 09:00	08/18/25 19:39	1
Lithium	<0.0100		0.0100	0.00290	mg/L		08/15/25 09:00	08/18/25 19:39	1
Manganese	<0.0100		0.0100	0.00360	mg/L		08/15/25 09:00	08/18/25 19:39	1
Molybdenum	<0.00200		0.00200	0.00130	mg/L		08/15/25 09:00	08/18/25 19:39	1
Selenium	<0.00500		0.00500	0.00140	mg/L		08/15/25 09:00	08/18/25 19:39	1
Strontium	<0.00100		0.00100	0.000530	mg/L		08/15/25 09:00	08/18/25 19:39	1

Lab Sample ID: MB 310-463581/1-A

Matrix: Water

Analysis Batch: 464183

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 463581

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	<1.00		1.00	0.650	mg/L		08/15/25 09:00	08/19/25 16:47	1

Lab Sample ID: LCS 310-463581/2-A

Matrix: Water

Analysis Batch: 464028

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 463581

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.1892		mg/L		95	85 - 115
Cadmium	0.100	0.09397		mg/L		94	85 - 115
Iron	0.200	0.1891		mg/L		95	85 - 115
Lithium	0.200	0.1880		mg/L		94	85 - 115
Manganese	0.100	0.09522		mg/L		95	85 - 115
Molybdenum	0.200	0.1812		mg/L		91	85 - 115
Selenium	0.400	0.3535		mg/L		88	85 - 115
Strontium	0.200	0.1819		mg/L		91	85 - 115

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QC Sample Results

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Fall 2025

Job ID: 310-312991-1
SDG: Climax Molybdenum Landfill

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 310-463581/2-A
Matrix: Water
Analysis Batch: 464183

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 463581

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	2.00	1.876		mg/L		94	85 - 115

Lab Sample ID: 310-312991-1 MS
Matrix: Water
Analysis Batch: 464028

Client Sample ID: MW-7
Prep Type: Total/NA
Prep Batch: 463581

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.000952	J	0.200	0.1960		mg/L		98	70 - 130
Cadmium	<0.000200		0.100	0.09574		mg/L		96	70 - 130
Iron	0.863		0.200	1.079	4	mg/L		108	70 - 130
Lithium	0.0240		0.200	0.2164		mg/L		96	70 - 130
Manganese	1.80		0.100	1.896	4	mg/L		94	70 - 130
Molybdenum	0.00183	J	0.200	0.1825		mg/L		90	70 - 130
Selenium	<0.00500		0.400	0.3655		mg/L		91	70 - 130
Strontium	0.528		0.200	0.7060		mg/L		89	70 - 130

Lab Sample ID: 310-312991-1 MS
Matrix: Water
Analysis Batch: 464183

Client Sample ID: MW-7
Prep Type: Total/NA
Prep Batch: 463581

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	51.4		2.00	51.90	4	mg/L		27	70 - 130

Lab Sample ID: 310-312991-1 MSD
Matrix: Water
Analysis Batch: 464028

Client Sample ID: MW-7
Prep Type: Total/NA
Prep Batch: 463581

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Arsenic	0.000952	J	0.200	0.1952		mg/L		97	70 - 130	0	20
Cadmium	<0.000200		0.100	0.09650		mg/L		96	70 - 130	1	20
Iron	0.863		0.200	1.060	4	mg/L		98	70 - 130	2	20
Lithium	0.0240		0.200	0.2178		mg/L		97	70 - 130	1	20
Manganese	1.80		0.100	1.892	4	mg/L		90	70 - 130	0	20
Molybdenum	0.00183	J	0.200	0.1835		mg/L		91	70 - 130	1	20
Selenium	<0.00500		0.400	0.3639		mg/L		91	70 - 130	0	20
Strontium	0.528		0.200	0.7102		mg/L		91	70 - 130	1	20

Lab Sample ID: 310-312991-1 MSD
Matrix: Water
Analysis Batch: 464183

Client Sample ID: MW-7
Prep Type: Total/NA
Prep Batch: 463581

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Sodium	51.4		2.00	53.25	4	mg/L		95	70 - 130	3	20

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QC Sample Results

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Fall 2025

Job ID: 310-312991-1
SDG: Climax Molybdenum Landfill

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 310-463288/105
Matrix: Water
Analysis Batch: 463288

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			08/11/25 18:25	1

Lab Sample ID: LCS 310-463288/106
Matrix: Water
Analysis Batch: 463288

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	5.65	5.961		mg/L		106	90 - 110

Lab Sample ID: 310-312991-1 MS
Matrix: Water
Analysis Batch: 463288

Client Sample ID: MW-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	<0.200	F1	1.00	0.8825	F1	mg/L		88	90 - 110

Lab Sample ID: 310-312991-1 MSD
Matrix: Water
Analysis Batch: 463288

Client Sample ID: MW-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia	<0.200	F1	1.00	0.7341	F1	mg/L		73	90 - 110	18	23

Lab Sample ID: MB 310-463741/48
Matrix: Water
Analysis Batch: 463741

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	<0.500		0.500	0.120	mg/L			08/14/25 14:45	1

Lab Sample ID: LCS 310-463741/49
Matrix: Water
Analysis Batch: 463741

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	2.26	2.186		mg/L		97	90 - 110

Method: 5220D LL - COD

Lab Sample ID: MB 310-463500/32
Matrix: Water
Analysis Batch: 463500

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	<5.00		5.00	4.60	mg/L			08/13/25 09:46	1

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QC Sample Results

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Fall 2025

Job ID: 310-312991-1
SDG: Climax Molybdenum Landfill

Method: 5220D LL - COD (Continued)

Lab Sample ID: MB 310-463500/5
Matrix: Water
Analysis Batch: 463500

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	<5.00		5.00	4.60	mg/L			08/13/25 09:46	1

Lab Sample ID: LCS 310-463500/3
Matrix: Water
Analysis Batch: 463500

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	125	125.0		mg/L		100	85 - 115

Lab Sample ID: LCS 310-463500/33
Matrix: Water
Analysis Batch: 463500

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	123.6		mg/L		99	85 - 115

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

Lab Sample ID: MB 310-463258/1
Matrix: Water
Analysis Batch: 463258

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.50	mg/L			08/11/25 12:52	1

Lab Sample ID: LCS 310-463258/2
Matrix: Water
Analysis Batch: 463258

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	95.00		mg/L		95	82 - 117

Lab Sample ID: MB 310-463275/1
Matrix: Water
Analysis Batch: 463275

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.50	mg/L			08/11/25 14:41	1

Lab Sample ID: LCS 310-463275/2
Matrix: Water
Analysis Batch: 463275

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	101.0		mg/L		101	82 - 117

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QC Sample Results

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Fall 2025

Job ID: 310-312991-1
SDG: Climax Molybdenum Landfill

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

Lab Sample ID: 310-312991-2 DU							Client Sample ID: MW-11				
Matrix: Water							Prep Type: Total/NA				
Analysis Batch: 463275											
Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D		RPD	RPD Limit	
Total Suspended Solids	108			120.0		mg/L			11	35	

QC Association Summary

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Fall 2025

Job ID: 310-312991-1
SDG: Climax Molybdenum Landfill

HPLC/IC

Analysis Batch: 464402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-312991-1	MW-7	Total/NA	Water	9056A	
310-312991-2	MW-11	Total/NA	Water	9056A	
310-312991-3	MW-15	Total/NA	Water	9056A	
310-312991-4	MW-16	Total/NA	Water	9056A	
310-312991-5	MW-17	Total/NA	Water	9056A	
310-312991-6	MW-18R	Total/NA	Water	9056A	
310-312991-7	MW-21	Total/NA	Water	9056A	
310-312991-8	TW-3	Total/NA	Water	9056A	
310-312991-9	MW-D	Total/NA	Water	9056A	
310-312991-9	MW-D	Total/NA	Water	9056A	
310-312991-10	Leachate Sump	Total/NA	Water	9056A	
MB 310-464402/3	Method Blank	Total/NA	Water	9056A	
LCS 310-464402/4	Lab Control Sample	Total/NA	Water	9056A	

Metals

Prep Batch: 463581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-312991-1	MW-7	Total/NA	Water	200.8	
310-312991-2	MW-11	Total/NA	Water	200.8	
310-312991-3	MW-15	Total/NA	Water	200.8	
310-312991-4	MW-16	Total/NA	Water	200.8	
310-312991-5	MW-17	Total/NA	Water	200.8	
310-312991-6	MW-18R	Total/NA	Water	200.8	
310-312991-7	MW-21	Total/NA	Water	200.8	
310-312991-8	TW-3	Total/NA	Water	200.8	
310-312991-9	MW-D	Total/NA	Water	200.8	
310-312991-10	Leachate Sump	Total/NA	Water	200.8	
MB 310-463581/1-A	Method Blank	Total/NA	Water	200.8	
LCS 310-463581/2-A	Lab Control Sample	Total/NA	Water	200.8	
310-312991-1 MS	MW-7	Total/NA	Water	200.8	
310-312991-1 MSD	MW-7	Total/NA	Water	200.8	

Analysis Batch: 464028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-312991-1	MW-7	Total/NA	Water	200.8	463581
310-312991-2	MW-11	Total/NA	Water	200.8	463581
310-312991-3	MW-15	Total/NA	Water	200.8	463581
310-312991-4	MW-16	Total/NA	Water	200.8	463581
310-312991-5	MW-17	Total/NA	Water	200.8	463581
310-312991-6	MW-18R	Total/NA	Water	200.8	463581
310-312991-7	MW-21	Total/NA	Water	200.8	463581
310-312991-8	TW-3	Total/NA	Water	200.8	463581
310-312991-9	MW-D	Total/NA	Water	200.8	463581
310-312991-10	Leachate Sump	Total/NA	Water	200.8	463581
MB 310-463581/1-A	Method Blank	Total/NA	Water	200.8	463581
LCS 310-463581/2-A	Lab Control Sample	Total/NA	Water	200.8	463581
310-312991-1 MS	MW-7	Total/NA	Water	200.8	463581
310-312991-1 MSD	MW-7	Total/NA	Water	200.8	463581

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QC Association Summary

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Fall 2025

Job ID: 310-312991-1
SDG: Climax Molybdenum Landfill

Metals

Analysis Batch: 464183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-312991-1	MW-7	Total/NA	Water	200.8	463581
310-312991-2	MW-11	Total/NA	Water	200.8	463581
310-312991-3	MW-15	Total/NA	Water	200.8	463581
310-312991-4	MW-16	Total/NA	Water	200.8	463581
310-312991-5	MW-17	Total/NA	Water	200.8	463581
310-312991-6	MW-18R	Total/NA	Water	200.8	463581
310-312991-7	MW-21	Total/NA	Water	200.8	463581
310-312991-8	TW-3	Total/NA	Water	200.8	463581
310-312991-9	MW-D	Total/NA	Water	200.8	463581
310-312991-10	Leachate Sump	Total/NA	Water	200.8	463581
MB 310-463581/1-A	Method Blank	Total/NA	Water	200.8	463581
LCS 310-463581/2-A	Lab Control Sample	Total/NA	Water	200.8	463581
310-312991-1 MS	MW-7	Total/NA	Water	200.8	463581
310-312991-1 MSD	MW-7	Total/NA	Water	200.8	463581

General Chemistry

Analysis Batch: 463258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-312991-7	MW-21	Total/NA	Water	I-3765-85	
310-312991-8	TW-3	Total/NA	Water	I-3765-85	
MB 310-463258/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-463258/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 463275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-312991-1	MW-7	Total/NA	Water	I-3765-85	
310-312991-2	MW-11	Total/NA	Water	I-3765-85	
310-312991-3	MW-15	Total/NA	Water	I-3765-85	
310-312991-4	MW-16	Total/NA	Water	I-3765-85	
310-312991-5	MW-17	Total/NA	Water	I-3765-85	
310-312991-6	MW-18R	Total/NA	Water	I-3765-85	
310-312991-9	MW-D	Total/NA	Water	I-3765-85	
310-312991-10	Leachate Sump	Total/NA	Water	I-3765-85	
MB 310-463275/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-463275/2	Lab Control Sample	Total/NA	Water	I-3765-85	
310-312991-2 DU	MW-11	Total/NA	Water	I-3765-85	

Analysis Batch: 463288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-312991-1	MW-7	Total/NA	Water	350.1	
310-312991-2	MW-11	Total/NA	Water	350.1	
310-312991-3	MW-15	Total/NA	Water	350.1	
310-312991-4	MW-16	Total/NA	Water	350.1	
310-312991-5	MW-17	Total/NA	Water	350.1	
310-312991-6	MW-18R	Total/NA	Water	350.1	
310-312991-7	MW-21	Total/NA	Water	350.1	
310-312991-8	TW-3	Total/NA	Water	350.1	
310-312991-9	MW-D	Total/NA	Water	350.1	
MB 310-463288/105	Method Blank	Total/NA	Water	350.1	
LCS 310-463288/106	Lab Control Sample	Total/NA	Water	350.1	

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QC Association Summary

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Fall 2025

Job ID: 310-312991-1
SDG: Climax Molybdenum Landfill

General Chemistry (Continued)

Analysis Batch: 463288 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-312991-1 MS	MW-7	Total/NA	Water	350.1	
310-312991-1 MSD	MW-7	Total/NA	Water	350.1	

Analysis Batch: 463500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-312991-1	MW-7	Total/NA	Water	5220D LL	
310-312991-2	MW-11	Total/NA	Water	5220D LL	
310-312991-3	MW-15	Total/NA	Water	5220D LL	
310-312991-4	MW-16	Total/NA	Water	5220D LL	
310-312991-5	MW-17	Total/NA	Water	5220D LL	
310-312991-6	MW-18R	Total/NA	Water	5220D LL	
310-312991-7	MW-21	Total/NA	Water	5220D LL	
310-312991-8	TW-3	Total/NA	Water	5220D LL	
310-312991-9	MW-D	Total/NA	Water	5220D LL	
310-312991-10	Leachate Sump	Total/NA	Water	5220D LL	
MB 310-463500/32	Method Blank	Total/NA	Water	5220D LL	
MB 310-463500/5	Method Blank	Total/NA	Water	5220D LL	
LCS 310-463500/3	Lab Control Sample	Total/NA	Water	5220D LL	
LCS 310-463500/33	Lab Control Sample	Total/NA	Water	5220D LL	

Analysis Batch: 463741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-312991-10	Leachate Sump	Total/NA	Water	350.1	
MB 310-463741/48	Method Blank	Total/NA	Water	350.1	
LCS 310-463741/49	Lab Control Sample	Total/NA	Water	350.1	

Lab Chronicle

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Fall 2025

Job ID: 310-312991-1
SDG: Climax Molybdenum Landfill

Client Sample ID: MW-7

Lab Sample ID: 310-312991-1

Date Collected: 08/06/25 15:21

Matrix: Water

Date Received: 08/08/25 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	464402	ZRI4	EET CF	08/20/25 17:25
Total/NA	Prep	200.8			463581	QTZ5	EET CF	08/15/25 09:00
Total/NA	Analysis	200.8		1	464028	NFT2	EET CF	08/18/25 19:49
Total/NA	Prep	200.8			463581	QTZ5	EET CF	08/15/25 09:00
Total/NA	Analysis	200.8		1	464183	NFT2	EET CF	08/19/25 16:57
Total/NA	Analysis	350.1		1	463288	ZJX4	EET CF	08/11/25 18:27
Total/NA	Analysis	5220D LL		1	463500	ENB7	EET CF	08/13/25 09:46
Total/NA	Analysis	I-3765-85		1	463275	E6KR	EET CF	08/11/25 14:41

Client Sample ID: MW-11

Lab Sample ID: 310-312991-2

Date Collected: 08/06/25 14:20

Matrix: Water

Date Received: 08/08/25 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	464402	ZRI4	EET CF	08/20/25 17:37
Total/NA	Prep	200.8			463581	QTZ5	EET CF	08/15/25 09:00
Total/NA	Analysis	200.8		1	464028	NFT2	EET CF	08/18/25 20:00
Total/NA	Prep	200.8			463581	QTZ5	EET CF	08/15/25 09:00
Total/NA	Analysis	200.8		1	464183	NFT2	EET CF	08/19/25 17:05
Total/NA	Analysis	350.1		9.38	463288	ZJX4	EET CF	08/11/25 18:29
Total/NA	Analysis	5220D LL		10	463500	ENB7	EET CF	08/13/25 14:27
Total/NA	Analysis	I-3765-85		1	463275	E6KR	EET CF	08/11/25 14:41

Client Sample ID: MW-15

Lab Sample ID: 310-312991-3

Date Collected: 08/06/25 14:54

Matrix: Water

Date Received: 08/08/25 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	464402	ZRI4	EET CF	08/20/25 17:49
Total/NA	Prep	200.8			463581	QTZ5	EET CF	08/15/25 09:00
Total/NA	Analysis	200.8		1	464028	NFT2	EET CF	08/18/25 20:02
Total/NA	Prep	200.8			463581	QTZ5	EET CF	08/15/25 09:00
Total/NA	Analysis	200.8		1	464183	NFT2	EET CF	08/19/25 17:08
Total/NA	Analysis	350.1		1	463288	ZJX4	EET CF	08/11/25 18:30
Total/NA	Analysis	5220D LL		1	463500	ENB7	EET CF	08/13/25 09:46
Total/NA	Analysis	I-3765-85		1	463275	E6KR	EET CF	08/11/25 14:41

Client Sample ID: MW-16

Lab Sample ID: 310-312991-4

Date Collected: 08/06/25 13:46

Matrix: Water

Date Received: 08/08/25 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	464402	ZRI4	EET CF	08/20/25 18:00

Eurofins Cedar Falls

Lab Chronicle

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Fall 2025

Job ID: 310-312991-1
SDG: Climax Molybdenum Landfill

Client Sample ID: MW-16

Date Collected: 08/06/25 13:46

Date Received: 08/08/25 16:20

Lab Sample ID: 310-312991-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	200.8			463581	QTZ5	EET CF	08/15/25 09:00
Total/NA	Analysis	200.8		1	464028	NFT2	EET CF	08/18/25 20:05
Total/NA	Prep	200.8			463581	QTZ5	EET CF	08/15/25 09:00
Total/NA	Analysis	200.8		1	464183	NFT2	EET CF	08/19/25 17:10
Total/NA	Analysis	350.1		1	463288	ZJX4	EET CF	08/11/25 18:30
Total/NA	Analysis	5220D LL		1	463500	ENB7	EET CF	08/13/25 09:46
Total/NA	Analysis	I-3765-85		1	463275	E6KR	EET CF	08/11/25 14:41

Client Sample ID: MW-17

Date Collected: 08/06/25 17:54

Date Received: 08/08/25 16:20

Lab Sample ID: 310-312991-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	464402	ZRI4	EET CF	08/20/25 18:12
Total/NA	Prep	200.8			463581	QTZ5	EET CF	08/15/25 09:00
Total/NA	Analysis	200.8		1	464028	NFT2	EET CF	08/18/25 20:07
Total/NA	Prep	200.8			463581	QTZ5	EET CF	08/15/25 09:00
Total/NA	Analysis	200.8		1	464183	NFT2	EET CF	08/19/25 17:13
Total/NA	Analysis	350.1		1	463288	ZJX4	EET CF	08/11/25 18:32
Total/NA	Analysis	5220D LL		1	463500	ENB7	EET CF	08/13/25 09:46
Total/NA	Analysis	I-3765-85		1	463275	E6KR	EET CF	08/11/25 14:41

Client Sample ID: MW-18R

Date Collected: 08/06/25 15:57

Date Received: 08/08/25 16:20

Lab Sample ID: 310-312991-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	464402	ZRI4	EET CF	08/20/25 18:23
Total/NA	Prep	200.8			463581	QTZ5	EET CF	08/15/25 09:00
Total/NA	Analysis	200.8		1	464028	NFT2	EET CF	08/18/25 20:10
Total/NA	Prep	200.8			463581	QTZ5	EET CF	08/15/25 09:00
Total/NA	Analysis	200.8		1	464183	NFT2	EET CF	08/19/25 17:15
Total/NA	Analysis	350.1		1	463288	ZJX4	EET CF	08/11/25 18:32
Total/NA	Analysis	5220D LL		1	463500	ENB7	EET CF	08/13/25 09:46
Total/NA	Analysis	I-3765-85		1	463275	E6KR	EET CF	08/11/25 14:41

Client Sample ID: MW-21

Date Collected: 08/06/25 17:13

Date Received: 08/08/25 16:20

Lab Sample ID: 310-312991-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	464402	ZRI4	EET CF	08/20/25 18:35
Total/NA	Prep	200.8			463581	QTZ5	EET CF	08/15/25 09:00
Total/NA	Analysis	200.8		1	464028	NFT2	EET CF	08/18/25 20:18

Eurofins Cedar Falls

Lab Chronicle

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Fall 2025

Job ID: 310-312991-1
SDG: Climax Molybdenum Landfill

Client Sample ID: MW-21

Date Collected: 08/06/25 17:13

Date Received: 08/08/25 16:20

Lab Sample ID: 310-312991-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	200.8			463581	QTZ5	EET CF	08/15/25 09:00
Total/NA	Analysis	200.8		1	464183	NFT2	EET CF	08/19/25 17:18
Total/NA	Analysis	350.1		1	463288	ZJX4	EET CF	08/11/25 18:34
Total/NA	Analysis	5220D LL		1	463500	ENB7	EET CF	08/13/25 09:46
Total/NA	Analysis	I-3765-85		1	463258	E6KR	EET CF	08/11/25 12:52

Client Sample ID: TW-3

Date Collected: 08/06/25 16:37

Date Received: 08/08/25 16:20

Lab Sample ID: 310-312991-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	464402	ZRI4	EET CF	08/20/25 18:47
Total/NA	Prep	200.8			463581	QTZ5	EET CF	08/15/25 09:00
Total/NA	Analysis	200.8		1	464028	NFT2	EET CF	08/18/25 20:20
Total/NA	Prep	200.8			463581	QTZ5	EET CF	08/15/25 09:00
Total/NA	Analysis	200.8		1	464183	NFT2	EET CF	08/19/25 17:20
Total/NA	Analysis	350.1		1	463288	ZJX4	EET CF	08/11/25 18:35
Total/NA	Analysis	5220D LL		1	463500	ENB7	EET CF	08/13/25 09:46
Total/NA	Analysis	I-3765-85		1	463258	E6KR	EET CF	08/11/25 12:52

Client Sample ID: MW-D

Date Collected: 08/06/25 17:54

Date Received: 08/08/25 16:20

Lab Sample ID: 310-312991-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	464402	ZRI4	EET CF	08/20/25 19:21
Total/NA	Analysis	9056A		20	464402	ZRI4	EET CF	08/21/25 11:41
Total/NA	Prep	200.8			463581	QTZ5	EET CF	08/15/25 09:00
Total/NA	Analysis	200.8		1	464028	NFT2	EET CF	08/18/25 20:23
Total/NA	Prep	200.8			463581	QTZ5	EET CF	08/15/25 09:00
Total/NA	Analysis	200.8		1	464183	NFT2	EET CF	08/19/25 17:28
Total/NA	Analysis	350.1		1	463288	ZJX4	EET CF	08/11/25 18:36
Total/NA	Analysis	5220D LL		1	463500	ENB7	EET CF	08/13/25 09:46
Total/NA	Analysis	I-3765-85		1	463275	E6KR	EET CF	08/11/25 14:41

Client Sample ID: Leachate Sump

Date Collected: 08/06/25 18:15

Date Received: 08/08/25 16:20

Lab Sample ID: 310-312991-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	464402	ZRI4	EET CF	08/20/25 19:33
Total/NA	Prep	200.8			463581	QTZ5	EET CF	08/15/25 09:00
Total/NA	Analysis	200.8		1	464028	NFT2	EET CF	08/18/25 20:25

Eurofins Cedar Falls

Lab Chronicle

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Fall 2025

Job ID: 310-312991-1
SDG: Climax Molybdenum Landfill

Client Sample ID: Leachate Sump
Date Collected: 08/06/25 18:15
Date Received: 08/08/25 16:20

Lab Sample ID: 310-312991-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	200.8			463581	QTZ5	EET CF	08/15/25 09:00
Total/NA	Analysis	200.8		7	464183	NFT2	EET CF	08/19/25 17:31
Total/NA	Analysis	350.1		1	463741	WZC8	EET CF	08/14/25 15:37
Total/NA	Analysis	5220D LL		50	463500	ENB7	EET CF	08/13/25 09:46
Total/NA	Analysis	I-3765-85		1	463275	E6KR	EET CF	08/11/25 14:41

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: Climax Moly Landfill Sampling Fall 2025

Job ID: 310-312991-1
SDG: Climax Molybdenum Landfill

Laboratory: Eurofins Cedar Falls

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

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
200.8	200.8	Water	Lithium
200.8	200.8	Water	Strontium

Method Summary

Client: SCS Engineers
Project/Site: Climax Moly Landfill Sampling Fall 2025

Job ID: 310-312991-1
SDG: Climax Molybdenum Landfill

Method	Method Description	Protocol	Laboratory
9056A	Anions, Ion Chromatography	SW846	EET CF
200.8	Metals (ICP/MS)	EPA	EET CF
350.1	Nitrogen, Ammonia	EPA	EET CF
5220D LL	COD	SM	EET CF
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
200.8	Preparation, Total Metals	EPA	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.

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

Laboratory References:

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



Environment Testing
America



310-312991 Chain of Custody

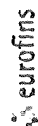
Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client <u>ScS</u>			
City/State:	CITY <u>V. Dr. Mains</u>	STATE <u>LA</u>	Project.
Receipt Information			
Date/Time Received	DATE <u>8.8.25</u>	TIME <u>1620</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 # _____ of _____			
Cooler Custody Seals Present? ☐ Yes ☒ No If yes: Cooler custody seals intact? ☐ Yes ☐ No			
Sample Custody Seals Present? ☐ Yes ☒ No If yes: Sample custody seals intact? ☐ Yes ☐ No			
Trip Blank Present? ☐ Yes ☒ No If yes: Which VOA samples are in cooler? ↓			
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID <u>AA</u>		Correction Factor (°C) <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>4.7</u>		Corrected Temp (°C): <u>4.7</u>	
• Sample Container Temperature			
Container(s) used.	CONTAINER 1		CONTAINER 2
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			

Eurofins TestAmerica, Cedar Falls
3019 Venture Way

Cedar Falls, IA 50613-6907
phone 319.277.2401 fax 319.277.2425

Chain of Custody Record



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

Groundwater

☐ RCRA ☒ Other

Regulatory Program: ☐ DW ☐ NPDES

Client Contact Kevin Jensen - SCS Engineers 1690 All-State Court, Suite 100 West Des Moines, Iowa 50265 515-631-8154 kjensen@scsengr.com Project Name: Climax Moly Landfill Sampling Fall 2025 Site: Climax Moly Landfill P O #		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: _____ Carrier: _____ COC No: _____ of _____ COCs Sampler: _____ For Lab Use Only: Walk-in Client: _____ Lab Sampling: _____ Job / SDG No: _____ Sample Specific Notes: _____																	
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Total Arsenic	Total Cadmium	Total Iron	Total Lithium	Total Manganese	Total Molybdenum	Total Selenium	Total Sodium	Total Strontium	Total Sulfate	Total Suspended Solids	Ammonia-Nitrogen	Chloride	Chemical Oxygen Demand
MW-7	8-6-25	1521	G	W				X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW-11	8-6-25	1420	G	W				X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW-15	8-6-25	1454	G	W				X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW-16	8-6-25	1346	G	W				X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW-17	8-6-25	1754	G	W				X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW-18R	8-6-25	1557	G	W				X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW-21	8-6-25	1713	G	W				X	X	X	X	X	X	X	X	X	X	X	X	X	X
TW-3	8-6-25	1637	G	W				X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW-D	8-6-25	1754	G	W				X	X	X	X	X	X	X	X	X	X	X	X	X	X
Leachate Sump	8-6-25	1815	G	W				X	X	X	X	X	X	X	X	X	X	X	X	X	X
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. ☐ Non-Hazard ☒ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown																					
Special Instructions/QC Requirements & Comments:																					
Custody Seals Intact: ☐ Yes ☐ No Relinquished by: <i>Kevin Roth</i> Relinquished by: _____ Relinquished by: _____		Custody Seal No. _____ Company: SCS Company: _____ Company: _____		Date/Time: 8/6/25/1400 Date/Time: _____ Date/Time: _____		Received by: _____ Received by: _____ Received in Laboratory by: SC		Cooler Temp. (°C) Obs'd: _____ Company: _____ Company: _____ Company: _____		Cor'd: _____ Therm ID No.: _____ Date/Time: _____ Date/Time: _____ Date/Time: 8/8/25 1020		Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months									

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-312991-1

SDG Number: Climax Molybdenum Landfill

Login Number: 312991

List Number: 1

Creator: Cappi, Sage

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 B2

Data Validation

Completed by: Semir Omerovic
 Sampling Date: 2/26/2025
 Lab Report Date: 3/12/2025
 Site Name: Climax Molybdenum Landfill
 Lab Report Number: 310-301145-1

OK NO N/A NOTES

Sample Collection and Sample Handling

Chain of Custody
 Temperature
 Preservation
 Condition
 Case Narrative
 Reporting Limits
 Holding Times

X			
X			
X			
X			
X			
X			
X			

Analytical Sensitivity and Blanks

Method Blank Detections
 Trip Blank Detections

X			
		X	

Accuracy

ICV/CCV
 LCS/LCSD

MS/MSD

Surrogates (organics only)

X			
X			
	X		MS & MSD results fell below recovery limits for ammonia associated with monitoring well TW-3.
		X	

Precision

QA/QC Sample RPDs
 Field Duplicates

X			
		X	

Completed by: Semir Omerovic
 Sampling Date: 4/1/2025
 Lab Report Date: 4/15/2025
 Site Name: Climax Molybdenum Landfill
 Lab Report Number: 310-303433-1

OK NO N/A NOTES

Sample Collection and Sample Handling

Chain of Custody
 Temperature
 Preservation
 Condition
 Case Narrative
 Reporting Limits
 Holding Times

X			
X			
X			
X			
X			
X			
X			

Analytical Sensitivity and Blanks

Method Blank Detections
 Trip Blank Detections

X			
		X	

Accuracy

ICV/CCV
 LCS/LCSD

X			
X			
	X		MS & MSD results fell below recovery limits for ammonia associated with analysis batch 450759.
		X	

MS/MSD

Surrogates (organics only)

Precision

QA/QC Sample RPDs

X			
	X		The duplicate sample was collected from MW-17 during the spring 2025 sampling event. All parameters had <50% relative difference with the exception of manganese, and selenium. Constituents with J flag concentrations were not considered for the duplicate sample comparisons.

Field Duplicates

Completed by: Semir Omerovic
 Sampling Date: 8/6/2025
 Lab Report Date: 8/21/2025
 Site Name: Climax Molybdenum Landfill
 Lab Report Number: 310-312991-1

OK NO N/A NOTES

Sample Collection and Sample Handling

Chain of Custody
 Temperature
 Preservation

Condition

Case Narrative
 Reporting Limits
 Holding Times

X			
X			
X			
	X		Method 9056A_ORGFM_28D: The following samples were diluted due to the nature of the sample matrix: MW-11 (310-312991-2) and TW-3 (310-312991-8). Elevated reporting limits (RLs) were provided.
X			
X			
X			

Analytical Sensitivity and Blanks

Method Blank Detections
 Trip Blank Detections

X			
		X	

Accuracy

ICV/CCV
 LCS/LCSD

MS/MSD

Surrogates (organics only)

X			
X			
	X		MS & MSD results fell below recovery limits for ammonia associated with analysis batch 463288. MS/MSD results were outside recovery limits for iron and manganese associated with analysis batch 464028, sodium associated with analysis batch 464183, and ammonia associated with analysis batch 463288.
		X	

Precision

QA/QC Sample RPDs

Field Duplicates

X			
X			The duplicate sample was collected from MW-17 during the fall 2025 sampling event. All parameters had <50% relative difference with the exception of chloride. Constituents with J flag concentrations were not considered for the duplicate sample comparisons.



Appendix C

Summary of Groundwater Chemistry

SCS ENGINEERS

Summary of Groundwater Chemistry Climax Molybdenum Industrial Landfill (56 SDP 06 80P)

Total Metals Constituents	Sample Date	MW-7 UPG	MW-18R UPG	MW-11 DNG	MW-15 DNG	MW-16 DNG	MW-17 DNG	MW-21 DNG	TW-2 DNG	TW-3 DNG
Arsenic, mg/L (CAS NO - 7440-38-2)	4/14/2015	< 0.001	0.006	0.008	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	7/15/2015	N/A	0.004	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/13/2015	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	N/A
	5/24/2016	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	N/A
	10/10/2016	< 0.01	< 0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	N/A
	4/11/2017	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	N/A
	10/18/2017	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	N/A
	4/12/2018	0.000854	< 0.002	0.00385	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A
	8/2/2018	0.00124	< 0.002	0.00675	< 0.002	< 0.002	0.000583	< 0.002	< 0.002	N/A
	4/9/2019	< 0.002	< 0.002	0.00639	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A
	8/28/2019	0.000836	< 0.002	0.00721	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A
	3/16/2020	< 0.002	< 0.002	0.00599	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A
	3/16/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A
	7/28/2020	0.00169*	< 0.002	0.00505	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A
	7/28/2020	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	3/18/2021	0.000951*	< 0.002	0.00821	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A
	3/18/2021	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/1/2021	0.000799*	< 0.002	0.00651	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A
	9/1/2021	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	6/29/2022	0.00259	< 0.002	0.00434	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A
	6/29/2022	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	8/16/2022	0.00113*	< 0.002	0.00944	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A
	8/16/2022	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	4/7/2023	0.000721*	< 0.002	0.00636	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A
	4/7/2023	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	7/27/2023	0.000601*	< 0.002	0.00767	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A
	7/27/2023	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	5/22/2024	0.00283	< 0.002	0.00459	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A
	5/22/2024	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A
	7/30/2024	0.00136*	< 0.002	0.0101	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A
	7/30/2024	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	2/26/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002
	4/1/2025	< 0.002	< 0.002	0.0127	< 0.002	0.000798*	< 0.002	< 0.002	N/A	< 0.002
	4/1/2025	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A
	8/6/2025	0.000952*	0.000675*	0.0106	0.000569*	0.000765*	0.00078*	< 0.002	N/A	0.00092*
	8/6/2025	N/A	N/A	N/A	N/A	N/A	0.000729*	N/A	N/A	N/A
Cadmium, mg/L (CAS NO - 7440-43-9)	4/14/2015	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	7/15/2015	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/13/2015	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A
	5/24/2016	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A
	10/10/2016	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A
	4/11/2017	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A
	10/18/2017	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	4/12/2018	0.0001	< 0.0005	< 0.0005	< 0.0005	0.000189	< 0.0005	< 0.0005	< 0.0005	N/A
	8/2/2018	0.000144	< 0.0005	0.000246	< 0.0005	0.000129	< 0.0005	< 0.0005	< 0.0005	N/A
	4/9/2019	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.000191	< 0.0005	< 0.0005	< 0.0005	N/A
	8/28/2019	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.000078	< 0.0001	0.000145	< 0.0001	N/A
	3/16/2020	0.000054*	< 0.0001	< 0.0001	< 0.0001	0.000044*	< 0.0001	0.000051*	< 0.0001	N/A
	3/16/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0001	N/A
	7/28/2020	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.000125	< 0.0001	0.000184	< 0.0001	N/A
	7/28/2020	N/A	N/A	N/A	< 0.0001	N/A	N/A	N/A	N/A	N/A
	3/18/2021	0.000091*	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	N/A
	3/18/2021	0.000114	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/1/2021	0.000075*	< 0.0001	< 0.0001	< 0.0001	0.000218	< 0.0001	0.000145	< 0.0001	N/A
	9/1/2021	N/A	N/A	N/A	< 0.0001	N/A	N/A	N/A	N/A	N/A
	6/29/2022	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.000381	< 0.0001	0.000201	< 0.0001	N/A
	6/29/2022	N/A	N/A	N/A	< 0.0001	N/A	N/A	N/A	N/A	N/A
	8/16/2022	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.000169	< 0.0001	0.000155	< 0.0001	N/A
	8/16/2022	N/A	N/A	N/A	< 0.0001	N/A	N/A	N/A	N/A	N/A
	4/7/2023	0.000166*	< 0.0002	0.000106*	< 0.0002	0.000132*	< 0.0002	< 0.0002	< 0.0002	N/A
	4/7/2023	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A	N/A
	7/27/2023	0.000114*	< 0.0002	< 0.0002	< 0.0002	0.000101*	< 0.0002	0.000188*	< 0.0002	N/A
	7/27/2023	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A	N/A
	5/22/2024	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.000166*	< 0.0002	< 0.0002	< 0.0002	N/A
	5/22/2024	N/A	N/A	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A
	7/30/2024	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	N/A
	7/30/2024	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A	N/A
	2/26/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0002
	4/1/2025	0.000116*	< 0.0002	0.000147*	< 0.0002	< 0.0002	< 0.0002	< 0.0002	N/A	< 0.0002
	4/1/2025	N/A	N/A	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A
	8/6/2025	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	N/A	< 0.0002
	8/6/2025	N/A	N/A	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A

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Summary of Groundwater Chemistry Climax Molybdenum Industrial Landfill (56 SDP 06 80P)

Total Metals Constituents	Sample Date	MW-7 UPG	MW-18R UPG	MW-11 DNG	MW-15 DNG	MW-16 DNG	MW-17 DNG	MW-21 DNG	TW-2 DNG	TW-3 DNG
Iron, mg/L (CAS NO - 7439-89-6)	1/15/2015	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2015	0.13	14	8.5	0.13	0.29	0.12	1.2	0.21	N/A
	7/15/2015	N/A	9.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/13/2015	0.9	1.4	13	0.22	0.44	0.57	1.4	1.7	N/A
	5/24/2016	0.1	0.05	39	< 0.02	0.37	< 0.02	< 0.02	0.08	N/A
	10/10/2016	0.03	0.37	58	< 0.02	0.03	0.1	0.18	0.04	N/A
	4/11/2017	0.14	0.12	40	0.09	0.17	0.14	0.26	0.08	N/A
	10/18/2017	0.03	0.07	37	0.03	0.06	0.07	0.1	< 0.02	N/A
	4/12/2018	0.0948	< 0.1	40.9	< 0.1	< 0.1	0.171	< 0.1	< 0.1	N/A
	8/2/2018	< 0.1	0.303	54.6	0.163	< 0.1	0.24	< 0.1	< 0.1	N/A
	4/9/2019	0.292	< 0.1	20.6	< 0.1	< 0.1	0.0691	< 0.1	< 0.1	N/A
	8/28/2019	0.327	< 0.1	35.9	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	N/A
	3/16/2020	0.817	< 0.1	40.1	< 0.1	< 0.1	0.116	< 0.1	< 0.1	N/A
	3/16/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A
	7/28/2020	3.42	0.0717*	9.6	< 0.1	< 0.1	0.177	0.627	< 0.1	N/A
	7/28/2020	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A
	3/18/2021	1.46	0.0812*	47.8	< 0.1	< 0.1	0.0598*	< 0.1	< 0.1	N/A
	3/18/2021	0.202	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/1/2021	1.2	< 0.1	36.7	< 0.1	< 0.1	0.0371*	< 0.1	< 0.1	N/A
	9/1/2021	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A
	6/29/2022	4.61	< 0.1	27.8	< 0.1	0.0622*	0.0954*	< 0.1	< 0.1	N/A
	6/29/2022	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A
	8/16/2022	1.08	< 0.1	35.2	< 0.1	< 0.1	0.0782*	< 0.1	< 0.1	N/A
	8/16/2022	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A
	4/7/2023	0.0509*	< 0.1	22.9	< 0.1	< 0.1	0.0473*	< 0.1	< 0.1	N/A
	4/7/2023	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A
	7/27/2023	1.13	< 0.1	31.4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	N/A
	7/27/2023	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A
	5/22/2024	6.23	< 0.1	30.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	N/A
	5/22/2024	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A
	7/30/2024	2.44	< 0.1	42.4	< 0.1	< 0.1	0.0616*	< 0.1	< 0.1	N/A
	7/30/2024	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A
	2/26/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.112
	4/1/2025	0.331	0.207	42.6	< 0.1	< 0.1	< 0.1	< 0.1	N/A	0.162
	4/1/2025	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A
	8/6/2025	0.863	0.405	55.1	0.0668*	< 0.1	0.176	< 0.1	N/A	0.19
	8/6/2025	N/A	N/A	N/A	N/A	N/A	0.121	N/A	N/A	N/A
Lithium, mg/L (CAS NO - 7439-93-2)	4/14/2015	0.03	0.04	0.01	0.04	0.04	0.07	0.04	0.03	N/A
	7/15/2015	N/A	0.04	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/13/2015	0.03	0.03	0.01	0.04	0.04	0.07	0.05	0.04	N/A
	5/24/2016	0.02	0.03	< 0.01	0.02	0.03	0.07	0.03	0.03	N/A
	10/10/2016	0.03	0.03	< 0.01	0.03	0.03	0.06	0.04	0.03	N/A
	4/11/2017	0.03	0.03	0.01	0.02	0.04	0.07	0.02	0.04	N/A
	10/18/2017	0.03	0.03	< 0.01	0.03	0.03	0.07	0.04	0.03	N/A
	4/12/2018	0.0295	0.0311	0.00485	0.0313	0.0368	0.0582	0.0165	0.0346	N/A
	8/2/2018	0.032	0.0289	0.00412	0.032	0.0466	0.0641	0.0366	0.0365	N/A
	4/9/2019	0.0278	0.0305	0.0103	0.0263	0.0369	0.0668	0.033	0.0352	N/A
	8/28/2019	0.0263	0.0301	0.00496	0.0298	0.0354	0.0669	0.0393	0.0388	N/A
	3/16/2020	0.0251	0.0308	0.00875*	0.0275	0.0384	0.0707	0.0375	0.036	N/A
	3/16/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0338	N/A
	7/28/2020	0.0227	0.0294	0.014	0.0347	0.0383	0.0651	0.0364	0.0363	N/A
	7/28/2020	N/A	N/A	N/A	0.0342	N/A	N/A	N/A	N/A	N/A
	3/18/2021	0.0247	0.0303	0.00998*	0.0304	0.0378	0.0709	0.0343	0.0377	N/A
	3/18/2021	0.0247	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/1/2021	0.0219	0.0284	0.0085*	0.0275	0.0307	0.0648	0.0285	0.0365	N/A
	9/1/2021	N/A	N/A	N/A	0.0315	N/A	N/A	N/A	N/A	N/A
	6/29/2022	0.0264	0.0358	0.0126*	0.035	0.0273	0.0779	0.0279	0.0482	N/A
	6/29/2022	N/A	N/A	N/A	0.0344	N/A	N/A	N/A	N/A	N/A
	8/16/2022	0.024	0.0303	0.00538*	0.0288	0.0299	0.0636	0.0348	0.0392	N/A
	8/16/2022	N/A	N/A	N/A	0.0318	N/A	N/A	N/A	N/A	N/A
	4/7/2023	0.0218	0.0329	0.0097*	0.0228	0.0263	0.0718	0.0245	0.0411	N/A
	4/7/2023	N/A	N/A	N/A	0.021	N/A	N/A	N/A	N/A	N/A
	7/27/2023	0.0219	0.0304	0.00553*	0.0289	0.0256	0.0668	0.0257	0.0413	N/A
	7/27/2023	N/A	N/A	N/A	0.0281	N/A	N/A	N/A	N/A	N/A
	5/22/2024	0.0236	0.0305	0.00674*	0.0239	0.0232	0.0643	0.025	0.0372	N/A
	5/22/2024	N/A	N/A	N/A	N/A	N/A	0.0685	N/A	N/A	N/A
	7/30/2024	0.0211	0.0312	0.00477*	0.0329	0.0372	0.0734	0.0245	0.0442	N/A
	7/30/2024	N/A	N/A	N/A	0.0325	N/A	N/A	N/A	N/A	N/A
	2/26/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0171
	4/1/2025	0.0247	0.0325	0.00729*	0.0321	0.136	0.0615	0.0269	N/A	0.0274
	4/1/2025	N/A	N/A	N/A	N/A	N/A	0.0678	N/A	N/A	N/A
	8/6/2025	0.024	0.0299	0.00371*	0.0346	0.0335	0.0691	0.0165	N/A	0.027
	8/6/2025	N/A	N/A	N/A	N/A	N/A	0.0628	N/A	N/A	N/A

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Summary of Groundwater Chemistry Climax Molybdenum Industrial Landfill (56 SDP 06 80P)

Total Metals Constituents	Sample Date	MW-7 UPG	MW-18R UPG	MW-11 DNG	MW-15 DNG	MW-16 DNG	MW-17 DNG	MW-21 DNG	TW-2 DNG	TW-3 DNG
Manganese, mg/L (CAS NO - 7439-96-5)	4/14/2015	0.14	0.35	6.8	< 0.02	0.47	0.04	1.6	0.03	N/A
	7/15/2015	N/A	0.25	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/13/2015	< 0.02	< 0.02	5.9	< 0.02	0.46	< 0.02	0.76	< 0.02	N/A
	5/24/2016	0.38	< 0.02	4.3	< 0.02	1	< 0.02	0.34	< 0.02	N/A
	10/10/2016	1.2	< 0.02	4.6	< 0.02	0.72	0.16	1.2	< 0.02	N/A
	4/11/2017	1.6	< 0.02	5.2	< 0.02	0.44	0.11	0.4	< 0.02	N/A
	10/18/2017	1.4	< 0.02	3.5	< 0.02	0.5	0.56	0.17	< 0.02	N/A
	4/12/2018	2.3	0.00678	4.01	< 0.01	0.411	0.923	0.0906	< 0.01	N/A
	8/2/2018	2.72	0.00698	4.71	0.0128	0.29	0.642	0.0235	< 0.01	N/A
	4/9/2019	2.49	< 0.01	6.6	< 0.01	0.795	0.0644	0.135	< 0.01	N/A
	8/28/2019	3.01	< 0.01	5.12	< 0.01	0.224	0.107	0.518	< 0.01	N/A
	3/16/2020	2.4	< 0.01	5.25	< 0.01	0.184	0.475	0.128	< 0.01	N/A
	3/16/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	N/A
	7/28/2020	3.22	0.0111	6.37	< 0.01	0.218	0.837	0.905	< 0.01	N/A
	7/28/2020	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A
	3/18/2021	2.32	0.0151	4.49	< 0.01	0.0432	1.35	0.0389	< 0.01	N/A
	3/18/2021	2.27	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/1/2021	2.33	< 0.01	4.45	< 0.01	0.339	1.07	0.34	< 0.01	N/A
	9/1/2021	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A
	6/29/2022	2.52	< 0.01	4.48	< 0.01	0.755	0.955	0.452	< 0.01	N/A
	6/29/2022	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A
	8/16/2022	2.23	< 0.01	4.96	< 0.01	0.438	1.09	0.43	< 0.01	N/A
	8/16/2022	N/A	N/A	N/A	0.00606*	N/A	N/A	N/A	N/A	N/A
	4/7/2023	1.98	< 0.01	6.06	< 0.01	0.0805	1.39	0.0306	< 0.01	N/A
	4/7/2023	N/A	N/A	N/A	0.00485*	N/A	N/A	N/A	N/A	N/A
	7/27/2023	2.46	< 0.01	5	< 0.01	0.106	0.717	0.136	< 0.01	N/A
	7/27/2023	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A
	5/22/2024	2.33	0.00457*	5.35	< 0.01	0.194	0.318	0.0253	< 0.01	N/A
	5/22/2024	N/A	N/A	N/A	N/A	N/A	0.447	N/A	N/A	N/A
	7/30/2024	2.18	< 0.01	4.63	< 0.01	0.0389	1.26	0.275	< 0.01	N/A
	7/30/2024	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A
	2/26/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.226
	4/1/2025	1.74	0.0171	4.4	< 0.01	0.228	0.173	0.0165	N/A	0.00501*
	4/1/2025	N/A	N/A	N/A	N/A	N/A	0.371	N/A	N/A	N/A
	8/6/2025	1.8	0.0978	3.62	0.0251	0.0317	1.84	0.0428	N/A	0.0804
	8/6/2025	N/A	N/A	N/A	N/A	N/A	1.17	N/A	N/A	N/A
Molybdenum, mg/L (CAS NO - 7439-98-7)	1/15/2015	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2015	< 0.01	0.02	< 0.01	0.01	< 0.01	< 0.01	0.02	< 0.01	N/A
	7/15/2015	N/A	0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/13/2015	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	N/A
	5/24/2016	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	N/A
	10/10/2016	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	N/A
	4/11/2017	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	N/A
	10/18/2017	< 0.04	< 0.05	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	N/A
	4/12/2018	0.00447	0.00296	0.00306	0.00293	0.00304	0.00417	0.00085	0.00305	N/A
	8/2/2018	0.0023	0.00173	< 0.004	0.00273	0.00229	0.00382	< 0.002	0.00155	N/A
	4/9/2019	< 0.002	0.0013	0.00208	0.00187	0.00126	0.00329	< 0.002	0.0015	N/A
	8/28/2019	0.00129	0.00138	< 0.002	0.00216	0.00138	0.00175	< 0.002	0.00141	N/A
	3/16/2020	< 0.002	0.00114*	< 0.002	0.00161*	< 0.002	0.00165*	< 0.002	0.00144*	N/A
	3/16/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00165*	N/A
	7/28/2020	0.0015*	0.00121*	0.0026	0.00191*	0.00141*	0.00136*	< 0.002	0.00138*	N/A
	7/28/2020	N/A	N/A	N/A	0.00192*	N/A	N/A	N/A	N/A	N/A
	3/18/2021	0.00136*	< 0.002	< 0.002	0.00182*	< 0.002	0.00281	< 0.002	0.00146*	N/A
	3/18/2021	0.00155*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/1/2021	0.00148*	< 0.002	< 0.002	0.00197*	< 0.002	0.00254	< 0.002	< 0.002	N/A
	9/1/2021	N/A	N/A	N/A	0.00198*	N/A	N/A	N/A	N/A	N/A
	6/29/2022	< 0.002	0.00132*	0.00138*	0.002	< 0.002	0.00199*	< 0.002	0.0013*	N/A
	6/29/2022	N/A	N/A	N/A	0.002	N/A	N/A	N/A	N/A	N/A
	8/16/2022	0.00158*	0.0014*	0.00131*	0.00207	0.00122*	0.00206	< 0.002	0.00128*	N/A
	8/16/2022	N/A	N/A	N/A	0.00215	N/A	N/A	N/A	N/A	N/A
	4/7/2023	0.00199*	0.0013*	0.0039	0.00141*	0.000998*	0.00251	< 0.002	0.00148*	N/A
	4/7/2023	N/A	N/A	N/A	0.00167*	N/A	N/A	N/A	N/A	N/A
	7/27/2023	0.00165*	0.00129*	0.00155*	0.00205	< 0.002	0.00243	0.00098*	0.00133*	N/A
	7/27/2023	N/A	N/A	N/A	0.00209	N/A	N/A	N/A	N/A	N/A
	5/22/2024	< 0.002	< 0.002	0.00157*	0.00134*	0.00199*	0.00166*	< 0.002	< 0.002	N/A
	5/22/2024	N/A	N/A	N/A	N/A	N/A	0.00173*	N/A	N/A	N/A
	7/30/2024	0.00141*	< 0.002	< 0.002	0.00173*	< 0.002	0.00239	< 0.002	< 0.002	N/A
	7/30/2024	N/A	N/A	N/A	0.00174*	N/A	N/A	N/A	N/A	N/A
	2/26/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00317
	4/1/2025	0.00174*	< 0.002	0.00138*	0.00178*	0.00277	< 0.002	< 0.002	N/A	0.00222
	4/1/2025	N/A	N/A	N/A	N/A	N/A	0.00173*	N/A	N/A	N/A
	8/6/2025	0.00183*	< 0.002	0.00155*	0.00193*	< 0.002	< 0.002	0.00219	N/A	0.00221
	8/6/2025	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A

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Summary of Groundwater Chemistry Climax Molybdenum Industrial Landfill (56 SDP 06 80P)

Total Metals Constituents	Sample Date	MW-7 UPG	MW-18R UPG	MW-11 DNG	MW-15 DNG	MW-16 DNG	MW-17 DNG	MW-21 DNG	TW-2 DNG	TW-3 DNG
Selenium, mg/L (CAS NO - 7782-49-2)	1/15/2015	N/A	0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2015	< 0.01	0.05	< 0.01	0.02	< 0.01	0.02	< 0.01	< 0.01	N/A
	7/15/2015	N/A	0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/13/2015	0.18	0.05	< 0.01	0.02	< 0.01	0.12	< 0.01	0.31	N/A
	5/24/2016	< 0.01	0.06	< 0.01	0.01	< 0.01	0.04	< 0.01	0.01	N/A
	10/10/2016	< 0.01	0.05	< 0.01	< 0.01	< 0.01	0.01	< 0.01	< 0.01	N/A
	4/11/2017	< 0.01	0.05	< 0.01	< 0.01	< 0.01	0.02	< 0.01	< 0.01	N/A
	10/18/2017	< 0.01	0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01	N/A
	4/12/2018	< 0.005	0.0543	0.00189	0.00816	< 0.005	0.00477	< 0.005	0.0113	N/A
	8/2/2018	0.000969	0.0473	0.00263	0.00735	< 0.005	0.00476	< 0.005	0.0106	N/A
	4/9/2019	< 0.005	0.054	< 0.005	0.00273	< 0.005	0.0669	< 0.005	0.0106	N/A
	8/28/2019	< 0.005	0.049	0.0019	0.00261	< 0.005	0.0171	< 0.005	0.0103	N/A
	3/16/2020	< 0.005	0.0555	0.0012*	0.00286*	< 0.005	0.00743	< 0.005	0.0113	N/A
	3/16/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0115	N/A
	7/28/2020	< 0.005	0.0555	< 0.005	0.00574	< 0.005	0.0023*	< 0.005	0.0113	N/A
	7/28/2020	N/A	N/A	N/A	0.00489*	N/A	N/A	N/A	N/A	N/A
	3/18/2021	< 0.005	0.054	0.00111*	0.00327*	< 0.005	0.00475*	< 0.005	0.0127	N/A
	3/18/2021	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/1/2021	< 0.005	0.0557	0.00171*	0.00302*	< 0.005	0.00666	< 0.005	0.0134	N/A
	9/1/2021	N/A	N/A	N/A	0.00266*	N/A	N/A	N/A	N/A	N/A
	6/29/2022	< 0.005	0.0548	< 0.005	0.00205*	< 0.005	0.0031*	< 0.005	0.0137	N/A
	6/29/2022	N/A	N/A	N/A	0.00198*	N/A	N/A	N/A	N/A	N/A
	8/16/2022	< 0.005	0.0555	0.00164*	0.00194*	< 0.005	0.00262*	< 0.005	0.0139	N/A
	8/16/2022	N/A	N/A	N/A	0.00244*	N/A	N/A	N/A	N/A	N/A
	4/7/2023	0.00185*	0.058	0.00276*	0.0022*	< 0.005	0.00526	< 0.005	0.0143	N/A
	4/7/2023	N/A	N/A	N/A	0.00284*	N/A	N/A	N/A	N/A	N/A
	7/27/2023	< 0.005	0.0556	0.00175*	0.00323*	< 0.005	0.023	0.0134	0.0161	N/A
	7/27/2023	N/A	N/A	N/A	0.00328*	N/A	N/A	N/A	N/A	N/A
	5/22/2024	< 0.005	0.0516	0.00149*	0.00194*	< 0.005	0.022	0.00334*	0.0129	N/A
	5/22/2024	N/A	N/A	N/A	N/A	N/A	0.0167	N/A	N/A	N/A
	7/30/2024	< 0.005	0.0522	0.0021*	0.00318*	< 0.005	0.00246*	0.00649	0.0147	N/A
	7/30/2024	N/A	N/A	N/A	0.00344*	N/A	N/A	N/A	N/A	N/A
	2/26/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005
	4/1/2025	< 0.005	0.0472	< 0.005	0.00309*	< 0.005	0.0199	0.0228	N/A	0.00902
	4/1/2025	N/A	N/A	N/A	N/A	N/A	0.0114	N/A	N/A	N/A
	8/6/2025	< 0.005	0.0448	0.00219*	< 0.005	< 0.005	0.00155*	0.0254	N/A	< 0.005
	8/6/2025	N/A	N/A	N/A	N/A	N/A	0.00839	N/A	N/A	N/A
Sodium, mg/L (CAS NO - 7440-23-5)	1/15/2015	N/A	53	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2015	45	52	70	63	69	67	9.3	55	N/A
	7/15/2015	N/A	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/13/2015	44	52	77	65	74	68	95	58	N/A
	5/24/2016	50	55	74	49	75	68	90	64	N/A
	10/10/2016	64	56	90	64	75	72	94	66	N/A
	4/11/2017	60	54	79	41	73	67	72	63	N/A
	10/18/2017	56	50	89	61	73	65	86	65	N/A
	4/12/2018	60.1	47.3	71.7	54.3	76.4	61.1	63.8	62.7	N/A
	8/2/2018	61.7	49.9	71.3	60.1	67.5	64.2	81.1	61.8	N/A
	4/9/2019	64	52.6	76.7	48.8	71.9	65.5	100	60.8	N/A
	8/28/2019	59.1	49.4	86.7	49.6	67.4	62.2	103	65.8	N/A
	3/16/2020	76.3	48.2	69.8	46.4	66.1	59.7	105	61.9	N/A
	3/16/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60	N/A
	7/28/2020	76.1	50.4	80.3	61.2	69.7	62.6	112	70.8	N/A
	7/28/2020	N/A	N/A	N/A	61.2	N/A	N/A	N/A	N/A	N/A
	3/18/2021	65.3	49.5	77.8	51.1	68.6	62.2	124	70.5	N/A
	3/18/2021	70	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/1/2021	72.8	49.8	86.4	50.4	73	62.3	120	73.5	N/A
	9/1/2021	N/A	N/A	N/A	57	N/A	N/A	N/A	N/A	N/A
	6/29/2022	84.2	53.6	81.4	54.1	72.6	65.9	118	86.2	N/A
	6/29/2022	N/A	N/A	N/A	53.2	N/A	N/A	N/A	N/A	N/A
	8/16/2022	71.6	51.9	88.2	51.6	77.7	64.1	115	80.8	N/A
	8/16/2022	N/A	N/A	N/A	51.1	N/A	N/A	N/A	N/A	N/A
	4/7/2023	75.2	53.6	86.6	39.6	70.9	61.4	104	79	N/A
	4/7/2023	N/A	N/A	N/A	38.4	N/A	N/A	N/A	N/A	N/A
	7/27/2023	69.6	51.3	85.6	53.5	76	62.8	99.4	84.7	N/A
	7/27/2023	N/A	N/A	N/A	52.9	N/A	N/A	N/A	N/A	N/A
	5/22/2024	63.7	51.4	82.8	36.1	73.2	61.8	91	80.7	N/A
	5/22/2024	N/A	N/A	N/A	N/A	N/A	62.9	N/A	N/A	N/A
	7/30/2024	58.7	48.6	82.7	50	70	60.2	90.8	81.7	N/A
	7/30/2024	N/A	N/A	N/A	52	N/A	N/A	N/A	N/A	N/A
	2/26/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	28.1
	4/1/2025	58.9	53.1	83	56	54.3	60.5	90.8	N/A	62.2
	4/1/2025	N/A	N/A	N/A	N/A	N/A	64.2	N/A	N/A	N/A
	8/6/2025	51.4	44.6	71.7	48.6	69.5	54.5	59.1	N/A	56.8
	8/6/2025	N/A	N/A	N/A	N/A	N/A	62.1	N/A	N/A	N/A

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Summary of Groundwater Chemistry Climax Molybdenum Industrial Landfill (56 SDP 06 80P)

	Sample Date	MW-7 UPG	MW-18R UPG	MW-11 DNG	MW-15 DNG	MW-16 DNG	MW-17 DNG	MW-21 DNG	TW-2 DNG	TW-3 DNG
Total Metals Constituents Strontium, mg/L (CAS NO - 7440-24-6)	4/14/2015	0.62	0.35	0.63	0.44	0.57	0.7	1.2	0.32	N/A
	7/15/2015	N/A	0.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/13/2015	0.62	0.31	0.65	0.45	0.62	0.73	1	0.32	N/A
	5/24/2016	0.58	0.31	0.64	0.4	0.54	0.61	0.99	0.32	N/A
	10/10/2016	0.73	0.32	0.65	0.44	0.55	0.65	1.1	0.32	N/A
	4/11/2017	0.64	0.31	0.62	0.33	0.57	0.63	0.99	0.33	N/A
	10/18/2017	0.68	0.3	0.62	0.39	0.54	0.7	1.1	0.34	N/A
	4/12/2018	0.652	0.293	0.606	0.391	0.615	0.596	0.776	0.362	N/A
	8/2/2018	0.795	0.34	0.651	0.441	0.7	0.691	1.12	0.381	N/A
	4/9/2019	0.752	0.37	0.711	0.499	0.727	0.693	1.34	0.412	N/A
	8/28/2019	0.668	0.303	0.689	0.457	0.632	0.601	1.25	0.369	N/A
	3/16/2020	0.597	0.325	0.643	0.458	0.648	0.711	1.29	0.386	N/A
	3/16/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.393	N/A
	7/28/2020	0.584	0.336	0.589	0.507	0.628	0.651	1.34	0.432	N/A
	7/28/2020	N/A	N/A	N/A	0.481	N/A	N/A	N/A	N/A	N/A
	3/18/2021	0.591	0.326	0.664	0.458	0.654	0.71	1.2	0.423	N/A
	3/18/2021	0.588	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/1/2021	0.558	0.324	0.603	0.457	0.649	0.688	1.08	0.461	N/A
	9/1/2021	N/A	N/A	N/A	0.432	N/A	N/A	N/A	N/A	N/A
	6/29/2022	0.544	0.332	0.592	0.42	0.646	0.656	0.892	0.493	N/A
	6/29/2022	N/A	N/A	N/A	0.434	N/A	N/A	N/A	N/A	N/A
	8/16/2022	0.549	0.325	0.613	0.433	0.625	0.674	1.14	0.476	N/A
	8/16/2022	N/A	N/A	N/A	0.405	N/A	N/A	N/A	N/A	N/A
	4/7/2023	0.506	0.329	0.591	0.368	0.61	0.672	0.817	0.441	N/A
	4/7/2023	N/A	N/A	N/A	0.358	N/A	N/A	N/A	N/A	N/A
	7/27/2023	0.538	0.317	0.572	0.432	0.602	0.627	0.809	0.465	N/A
	7/27/2023	N/A	N/A	N/A	0.435	N/A	N/A	N/A	N/A	N/A
	5/22/2024	0.552	0.307	0.604	0.36	0.667	0.603	0.826	0.427	N/A
	5/22/2024	N/A	N/A	N/A	N/A	N/A	0.637	N/A	N/A	N/A
	7/30/2024	0.544	0.298	0.578	0.415	0.61	0.66	0.724	0.46	N/A
	7/30/2024	N/A	N/A	N/A	0.437	N/A	N/A	N/A	N/A	N/A
	2/26/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.705
	4/1/2025	0.5	0.271	0.53	0.402	1.34	0.531	0.713	N/A	0.311
	4/1/2025	N/A	N/A	N/A	N/A	N/A	0.529	N/A	N/A	N/A
	8/6/2025	0.528	0.287	0.584	0.48	0.619	0.558	0.495	N/A	0.284
	8/6/2025	N/A	N/A	N/A	N/A	N/A	0.648	N/A	N/A	N/A
Total Suspended Solids, mg/L (CAS NO - TSS)	4/14/2015	9.5	279	22	4	5	9	30	9	N/A
	10/10/2016	2	18	88	< 1	3	3	6	2	N/A
	4/11/2017	< 1	2	95	2	1	3	3	< 1	N/A
	10/18/2017	< 1	3	28	1	< 1	1	12	< 1	N/A
	4/12/2018	5	1.13	66	1.25	< 1.88	18	1	< 1.88	N/A
	8/2/2018	< 1.88	4.25	340	< 1.88	< 1.88	32.5	7.62	2.13	N/A
	4/9/2019	2	1	39.6	< 1.88	< 1.88	< 1.88	< 1.88	< 1.88	N/A
	8/28/2019	1.13	0.75	71.4	< 1.88	0.75	2.63	2	0.875	N/A
	3/16/2020	2	3	59	< 1.88	< 5	5.88	0.75*	< 1.88	N/A
	3/16/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.88	N/A
	7/28/2020	7.25	10.5	22.1	< 1.88	2.75	4.5	< 1.88	< 1.88	N/A
	7/28/2020	N/A	N/A	N/A	< 1.88	N/A	N/A	N/A	N/A	N/A
	3/18/2021	5.63	12	86.5	< 1.88	< 1.88	1.25*	0.75*	< 1.88	N/A
	3/18/2021	< 1.88	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/1/2021	2.38	1.75*	57.9	< 1.88	< 1.88	1.88	< 1.88	< 1.88	N/A
	9/1/2021	N/A	N/A	N/A	< 1.88	N/A	N/A	N/A	N/A	N/A
	6/29/2022	9.67	0.75*	58	< 1.88	< 1.88	1.88	< 1.88	< 1.88	N/A
	6/29/2022	N/A	N/A	N/A	< 1.88	N/A	N/A	N/A	N/A	N/A
	8/16/2022	6	0.875*	74	< 1.88	< 1.88	1*	< 1.88	< 1.88	N/A
	8/16/2022	N/A	N/A	N/A	< 1.88	N/A	N/A	N/A	N/A	N/A
	4/7/2023	< 1.88	2.38	48	< 1.88	< 1.88	1.13*	< 1.88	< 1.88	N/A
	4/7/2023	N/A	N/A	N/A	< 1.88	N/A	N/A	N/A	N/A	N/A
	7/27/2023	3*	1.25*	80	< 5	< 1.88	1.13*	< 5	< 5	N/A
	7/27/2023	N/A	N/A	N/A	< 1.88	N/A	N/A	N/A	N/A	N/A
	5/22/2024	12.7	2	58	< 1.88	< 1.88	< 1.88	< 1.88	< 1.88	N/A
	5/22/2024	N/A	N/A	N/A	N/A	N/A	< 1.88	N/A	N/A	N/A
	7/30/2024	6	1.63*	76.3	< 1.88	5.25	< 1.88	1.5*	1.75*	N/A
	7/30/2024	N/A	N/A	N/A	< 1.88	N/A	N/A	N/A	N/A	N/A
	2/26/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	34
	4/1/2025	3	12.5	130	< 1.88	< 1.88	1.5*	1.88	N/A	3.25
	4/1/2025	N/A	N/A	N/A	N/A	N/A	2.13	N/A	N/A	N/A
	8/6/2025	4.5	66.3	108	4	< 1.88	2.5	< 1.88	N/A	11.5
	8/6/2025	N/A	N/A	N/A	N/A	N/A	3.38	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 Climax Molybdenum Industrial Landfill (56 SDP 06 80P)

Other Constituents	Sample Date	MW-7 UPG	MW-18R UPG	MW-11 DNG	MW-15 DNG	MW-16 DNG	MW-17 DNG	MW-21 DNG	TW-2 DNG	TW-3 DNG
Chemical Oxygen Demand, mg/L (CAS NO - COD)	10/21/1992	N/A	N/A	16	5	17	16	N/A	N/A	N/A
	1/13/1993	< 1	N/A	1	< 1	4	1	N/A	N/A	N/A
	4/14/1993	< 1	N/A	3	5	3	3	N/A	N/A	N/A
	7/14/1993	5	N/A	9	2	4	9	N/A	N/A	N/A
	10/14/1993	5.9	N/A	16.8	0.9	5.5	N/A	N/A	N/A	N/A
	4/13/1994	12.8	N/A	16.3	5.2	14.3	13.8	N/A	N/A	N/A
	10/6/1994	8.1	N/A	14.8	4	10	10.9	N/A	N/A	N/A
	4/18/1995	4.6	N/A	5.4	1	1	1	N/A	N/A	N/A
	10/11/1995	10	N/A	14	6	12	6	N/A	N/A	N/A
	4/11/1996	5	4	9	3	8	3	N/A	N/A	N/A
	10/28/1996	6.3	3.1	14.4	4.5	2.4	2.7	N/A	N/A	N/A
	4/25/1997	15.2	1.1	14.7	7.9	12.8	3.5	N/A	N/A	N/A
	10/20/1997	9.6	2	12.2	7.2	9.8	2.2	N/A	N/A	N/A
	3/26/1998	11.6	8.1	12.4	3.7	19.9	8.9	N/A	N/A	N/A
	10/13/1998	5.6	< 0.4	8.7	4.1	< 0.4	0.4	N/A	N/A	N/A
	3/25/1999	9.2	3.8	8.5	2.5	8.1	2.5	N/A	N/A	N/A
	4/26/1999	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.6	N/A
	8/6/1999	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12.3	N/A
	10/14/1999	6.3	2.8	0.78	6.3	5.3	1.2	N/A	1.8	N/A
	3/23/2000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.4	N/A
	4/13/2000	< 1	< 1	2.3	< 1	< 1	< 1	N/A	< 1	N/A
	10/20/2000	2.9	< 1	8.8	< 1	2.9	1.3	N/A	< 1	N/A
	4/20/2001	6.2	4.5	8.9	4.9	5.8	3.2	N/A	3.2	N/A
	10/3/2001	5.1	2.1	10.7	1.3	5.6	1.3	N/A	3.9	N/A
	4/18/2002	3.4	< 1	3.6	< 1	3.1	< 1	N/A	1.2	N/A
	10/15/2002	6.2	1.3	9.5	1.3	2.3	< 1	N/A	2.3	N/A
	4/15/2003	6.2	3.6	9.9	4.4	6	2.8	N/A	3.6	N/A
	10/8/2003	8.23	0.8	9.29	2.9	1.2	1.2	N/A	5.5	N/A
	4/26/2004	11.4	3.7	6.2	4.1	4.5	22.1	N/A	5.4	N/A
	10/21/2004	7.2	< 1	1.5	< 1	< 1	< 1	N/A	< 1	N/A
	4/26/2005	5.1	1	3.5	1.8	6.3	< 1	N/A	1	N/A
	10/5/2005	3.8	10.5	6.2	1	3.2	< 3.6	N/A	2.8	N/A
	4/26/2006	8	2.7	9.2	2.3	6.8	5.6	N/A	3.9	N/A
	10/10/2006	3.6	< 1	13.5	1.2	2.2	< 1	N/A	< 1	N/A
	4/19/2007	8.7	1.3	10.2	0.9	3.9	< 1	N/A	8.7	N/A
	10/10/2007	6	< 1	12.6	5.1	< 1	< 1	N/A	2.5	N/A
	4/23/2008	16.7	< 1	15.9	4.3	3.1	2.7	N/A	9.5	N/A
	10/14/2008	16.7	2.3	10.3	9.8	< 7.6	5.5	N/A	9.5	N/A
	4/22/2009	13.8	3	11.5	6.7	9.6	1.5	N/A	< 1	N/A
	10/19/2009	14.3	17	10.9	4.4	10.5	9	N/A	< 5.6	N/A
	11/23/2009	N/A	N/A	N/A	N/A	N/A	N/A	8.3	N/A	N/A
	1/14/2010	N/A	N/A	N/A	N/A	N/A	N/A	11	N/A	N/A
	4/14/2010	10.4	0.6	< 1	< 1	10.7	9.4	1	2.8	N/A
	7/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	13.1	N/A	N/A
	10/7/2010	13.9	< 3	12.8	< 3	9.6	4.7	10	3.9	N/A
	4/13/2011	13	3.6	15.3	< 3	9.2	< 3	12.6	5.8	N/A
	10/6/2011	11.5	4.3	31.1	4.3	8.7	< 3	13	3.8	N/A
	4/12/2012	16.6	< 3	28.5	5.4	< 3	5.4	13.2	< 3	N/A
	10/10/2012	10.8	3.2	32.9	3.6	< 3	< 3	13.2	3.2	N/A
	4/25/2013	17.1	< 3	32.7	5	< 3	< 3	12.3	< 3	N/A
	10/9/2013	12.6	< 3	36.2	< 3	< 3	< 3	4.1	< 3	N/A
	4/10/2014	21	< 10	39	< 10	< 10	< 10	10	< 10	N/A
	10/7/2014	11.8	< 3	22	< 3	< 3	< 3	6.3	10.4	N/A
	1/15/2015	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2015	< 10	< 10	35	< 10	< 10	< 10	< 10	< 10	N/A
	7/15/2015	N/A	12	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/13/2015	24	15	55	10	12	< 10	24	< 10	N/A
	5/24/2016	11	< 10	100	< 10	< 10	< 10	< 10	< 10	N/A
	10/10/2016	28	< 10	190	< 10	10	< 10	19	< 10	N/A
	4/11/2017	24	2	87	< 10	< 10	< 10	17	< 10	N/A
	10/18/2017	26	< 10	200	< 10	< 10	< 10	11	< 10	N/A
	4/12/2018	20	< 5	105	< 5	5.57	< 5	< 5	< 5	N/A
	8/2/2018	11.1	< 5	134	< 5	< 5	131	< 5	< 5	N/A
	4/9/2019	23.6	< 5	27.5	16.9	8.09	< 5	< 5	7.01	N/A
	8/28/2019	13.3	< 5	122	< 5	5.67	< 5	11	< 5	N/A
	3/16/2020	14.8	< 5	60.9	< 5	< 5	< 5	7.64	< 5	N/A
	3/16/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	7/28/2020	18.6	< 5	23	< 5	< 5	13.8	21	5.58	N/A
	7/28/2020	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/18/2021	12.2	< 5	91.8	< 5	7.94	8.99	5.82	6.53	N/A
	3/18/2021	25.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/1/2021	15.6	< 5	108	5.39	< 5	< 5	6.07	< 5	N/A
	9/1/2021	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	6/29/2022	15.9	< 5	78.2	< 5	10.4	7.08	9	18	N/A
	6/29/2022	N/A	N/A	N/A	9.95	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry Climax Molybdenum Industrial Landfill (56 SDP 06 80P)

Other Constituents	Sample Date	MW-7 UPG	MW-18R UPG	MW-11 DNG	MW-15 DNG	MW-16 DNG	MW-17 DNG	MW-21 DNG	TW-2 DNG	TW-3 DNG
Chemical Oxygen Demand, mg/L (CAS NO - COD)	8/16/2022	15.6	< 5	126	10.5	10.2	9.86	11.2	< 5	N/A
	8/16/2022	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	4/7/2023	16.2	< 5	59.5	9.81	9.13	5.46	13.2	< 5	N/A
	4/7/2023	N/A	N/A	N/A	12.2	N/A	N/A	N/A	N/A	N/A
	7/27/2023	20.3	6.31	118	9.72	8.36	6.31	9.38	8.02	N/A
	7/27/2023	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	5/22/2024	14.2	< 5	71.9	< 5	< 5	< 5	< 5	< 5	N/A
	5/22/2024	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	7/30/2024	17.2	< 5	141	7.4	8.08	5.03	11.1	5.37	N/A
	7/30/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11.1
	4/1/2025	12.4	< 5	169	< 5	< 5	< 5	5.29	N/A	8
	4/1/2025	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	8/6/2025	15.2	< 5	232	12.1	< 5	20.1	5.52	N/A	11.1
	8/6/2025	N/A	N/A	N/A	N/A	N/A	26.4	N/A	N/A	N/A
Chloride, mg/L (CAS NO - 16887-00-6)	10/21/1992	42	42	60	24	27	60	N/A	N/A	N/A
	1/13/1993	33	33	60	20	27	60	N/A	N/A	N/A
	4/14/1993	25	25	60	17	23	60	N/A	N/A	N/A
	7/14/1993	27	27	65	16	22	65	N/A	N/A	N/A
	10/14/1993	16	N/A	52	10	14	N/A	N/A	N/A	N/A
	4/13/1994	17	N/A	61	7	15	15	N/A	N/A	N/A
	10/6/1994	29	N/A	86	12	38	21	N/A	N/A	N/A
	4/18/1995	24	N/A	70	14	30	21	N/A	N/A	N/A
	10/11/1995	25	N/A	79	9	23	13	N/A	N/A	N/A
	4/11/1996	22	10	56	9	13	12	N/A	N/A	N/A
	10/28/1996	31	23	96	19	33	28	N/A	N/A	N/A
	4/25/1997	27	10	67	8.7	19	14	N/A	N/A	N/A
	10/20/1997	23	12	52	10	16	17	N/A	N/A	N/A
	3/26/1998	21	11	61	8	26	15	N/A	N/A	N/A
	10/13/1998	21	14	84	12	21	20	N/A	N/A	N/A
	3/25/1999	18	6	46	5	8	9	N/A	N/A	N/A
	4/26/1999	N/A	6	N/A	N/A	N/A	N/A	N/A	3	N/A
	8/6/1999	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3	N/A
	10/14/1999	31	11	64	35	24	16	N/A	7	N/A
	3/23/2000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4	N/A
	4/13/2000	33	13	55	10	15	18	N/A	4	N/A
	10/20/2000	26	14	58	12	15	21	N/A	4	N/A
	4/20/2001	27	15	65	12	15	20	N/A	4	N/A
	10/3/2001	40	15	68	11	16	20	N/A	4	N/A
	4/18/2002	20	13	56	10	14	17	N/A	3	N/A
	10/15/2002	28	12	39	10	12	16	N/A	7	N/A
	4/15/2003	32	11	59	8	11	16	N/A	4	N/A
	10/8/2003	22	12	39	7	11	15	N/A	4	N/A
	4/26/2004	32	17	82	7	13	24	N/A	3	N/A
	10/21/2004	56	12	67	9	23	17	N/A	7	N/A
	4/26/2005	17	9	38	4	7	11	N/A	3	N/A
	10/5/2005	32	14	58	9	13	18	N/A	4	N/A
	4/26/2006	11.4	5	34	2	3	7	N/A	1	N/A
	10/10/2006	28	11	56	8	8	14	N/A	5	N/A
	4/19/2007	38	13	52	9	13	15	N/A	7	N/A
	10/10/2007	30	14.4	63.7	9.4	10.4	17.2	N/A	5.4	N/A
	4/23/2008	4.8	10.4	48	6	8.3	12.3	N/A	3.7	N/A
	10/14/2008	62.6	16.6	114.8	11.6	22	27	N/A	6.5	N/A
	4/22/2009	72	24	159	16	53	30	N/A	8.3	N/A
	10/19/2009	33	25	82	8	18	16	N/A	7	N/A
	11/23/2009	N/A	N/A	N/A	N/A	N/A	N/A	11	N/A	N/A
	1/14/2010	N/A	N/A	N/A	N/A	N/A	N/A	119.4	N/A	N/A
	4/14/2010	28	18	18	11	7	19	69	4	N/A
	7/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	101	N/A	N/A
	10/7/2010	34	17	73	9	24	16	101	2	N/A
	4/13/2011	39	17	74	8	20	16	123	3.3	N/A
	10/6/2011	33	16	72	11	14	18	103	4	N/A
	4/12/2012	30	17	103	22	16	18	88	6	N/A
	10/10/2012	33	14	95	8	12	15	92	6	N/A
	4/25/2013	37	14	94	6	13	15	68	5	N/A
	10/9/2013	40	14	104	7	13	16	69	4	N/A
	4/10/2014	28	17	116	10	15	19	69	6	N/A
	10/7/2014	27	15	73	8	11	15	69	9	N/A
	1/15/2015	N/A	7.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2015	6	8.7	30	3.7	6.4	9.2	60	4.1	N/A
	7/15/2015	N/A	7.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/13/2015	5.9	7.9	26	3.6	5.7	8.9	41	3.9	N/A
	5/24/2016	4.7	7.6	27	2	5.6	8.7	44	3.7	N/A
	10/10/2016	5.7	8	24	1.9	5.3	8.9	41	4.8	N/A
	4/11/2017	4.1	17	25	< 0.5	5.2	8.8	56	5	N/A
	10/18/2017	5.9	8.5	24	< 2	5	8.5	51	5.4	N/A

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Summary of Groundwater Chemistry Climax Molybdenum Industrial Landfill (56 SDP 06 80P)

Other Constituents	Sample Date	MW-7 UPG	MW-18R UPG	MW-11 DNG	MW-15 DNG	MW-16 DNG	MW-17 DNG	MW-21 DNG	TW-2 DNG	TW-3 DNG
Chloride, mg/L (CAS NO - 16887-00-6)	4/12/2018	6.5	8.19	149	2.98	5.83	9	65.2	6.5	N/A
	8/2/2018	6.23	8.31	22.6	2.19	5.25	8.88	62.3	5.87	N/A
	4/9/2019	3.23	8	23.8	1.92	4.81	7.89	110	5.23	N/A
	8/28/2019	2.62	7.41	21.1	3.31	4.51	7.52	126	5.1	N/A
	3/16/2020	4.01*	8.08	21.1	5.87	5.53	9.32	123	5.91	N/A
	3/16/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.54	N/A
	7/28/2020	3.46*	8.2	21.3	4.33*	5.54	8.16	201	7.36	N/A
	7/28/2020	N/A	N/A	N/A	5.45	N/A	N/A	N/A	N/A	N/A
	3/18/2021	4.49*	8.77	21.5	10.4	6.21	9.65	315	8.83	N/A
	3/18/2021	4.29*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/1/2021	2.26*	7.99	21.4	10.4	5.12	7.96	208	8.07	N/A
	9/1/2021	N/A	N/A	N/A	11.1	N/A	N/A	N/A	N/A	N/A
	6/29/2022	< 5	7.35	18.3	9.71	5.21	7.36	140	8.72	N/A
	6/29/2022	N/A	N/A	N/A	9.72	N/A	N/A	N/A	N/A	N/A
	8/16/2022	2.71*	8.35	20.6	10.9	5.7	< 5	152	10.6	N/A
	8/16/2022	N/A	N/A	N/A	10.8	N/A	N/A	N/A	N/A	N/A
	4/7/2023	3*	8.24	18.8	8.39	5.83	7.78	127	11.3	N/A
	4/7/2023	N/A	N/A	N/A	7.93	N/A	N/A	N/A	N/A	N/A
	7/27/2023	2.59*	9.01	22.7	11.2	5.5	8.74	109	13.3	N/A
	7/27/2023	N/A	N/A	N/A	11.1	N/A	N/A	N/A	N/A	N/A
	5/22/2024	2.3*	8.36	21	4.91*	5.61	8.06	71.8	12.3	N/A
	5/22/2024	N/A	N/A	N/A	N/A	N/A	8.03	N/A	N/A	N/A
	7/30/2024	2.81*	9.07	21.4	8.11	5.75	8.61	79.9	13.6	N/A
	7/30/2024	N/A	N/A	N/A	8.54	N/A	N/A	N/A	N/A	N/A
	2/26/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.15*
	4/1/2025	2.66*	8.43	20.7	8.57	7.94	8.82	72.6	N/A	3.33*
	4/1/2025	N/A	N/A	N/A	N/A	N/A	8.63	N/A	N/A	N/A
	8/6/2025	2.67*	8.87	22.3	8.5	5.86	8.73	21.3	N/A	< 5
	8/6/2025	N/A	N/A	N/A	N/A	N/A	51.7	N/A	N/A	N/A
Nitrogen, Ammonia, mg/L (CAS NO - 7664-41-7)	10/21/1992	< 0.04	< 0.04	0.29	< 0.04	< 0.04	< 0.29	N/A	N/A	N/A
	1/13/1993	< 0.04	< 0.04	0.19	< 0.04	< 0.04	< 0.19	N/A	N/A	N/A
	4/14/1993	< 0.04	< 0.04	0.27	< 0.04	< 0.04	< 0.27	N/A	N/A	N/A
	7/14/1993	< 0.04	< 0.04	0.31	< 0.04	< 0.04	< 0.31	N/A	N/A	N/A
	10/14/1993	< 0.04	N/A	0.23	< 0.04	< 0.04	N/A	N/A	N/A	N/A
	4/13/1994	< 0.05	N/A	0.35	0.07	0.12	0.05	N/A	N/A	N/A
	10/6/1994	< 0.04	N/A	0.26	< 0.04	< 0.04	< 0.04	N/A	N/A	N/A
	4/18/1995	< 0.05	N/A	0.21	0.06	0.17	0.11	N/A	N/A	N/A
	10/11/1995	< 0.04	N/A	0.12	< 0.04	0.13	< 0.04	N/A	N/A	N/A
	4/11/1996	0.48	< 0.04	0.12	0.12	0.07	0.08	N/A	N/A	N/A
	10/28/1996	0.08	0.06	0.74	0.08	0.13	0.1	N/A	N/A	N/A
	4/25/1997	0.06	0.12	0.29	0.08	0.11	0.05	N/A	N/A	N/A
	10/20/1997	0.05	0.04	0.43	0.04	0.08	0.05	N/A	N/A	N/A
	3/26/1998	< 0.04	0.05	0.49	0.05	0.1	0.05	N/A	N/A	N/A
	10/13/1998	0.06	0.06	0.52	0.06	0.11	0.06	N/A	N/A	N/A
	3/25/1999	0.04	0.08	0.68	0.05	0.13	0.05	N/A	N/A	N/A
	4/26/1999	N/A	0.08	N/A	N/A	N/A	N/A	N/A	< 0.04	N/A
	8/6/1999	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.04	N/A
	10/14/1999	< 0.04	0.05	0.46	0.08	0.06	0.05	N/A	0.17	N/A
	3/23/2000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.06	N/A
	4/13/2000	< 0.04	< 0.04	0.48	0.06	0.05	0.04	N/A	< 0.04	N/A
	10/20/2000	0.12	0.07	0.49	0.08	0.1	0.08	N/A	0.13	N/A
	4/20/2001	0.15	0.08	0.58	0.08	0.16	0.13	N/A	< 0.04	N/A
	10/3/2001	0.07	< 0.04	0.57	< 0.04	0.06	< 0.04	N/A	< 0.04	N/A
	4/18/2002	< 0.04	0.06	0.32	0.07	0.07	0.07	N/A	< 0.04	N/A
	10/15/2002	0.09	0.08	0.59	0.09	< 0.03	0.08	N/A	0.1	N/A
	4/15/2003	< 0.05	< 0.05	0.99	< 0.05	< 0.05	< 0.05	N/A	< 0.05	N/A
	10/8/2003	< 0.05	0.09	0.72	0.09	< 0.13	0.16	N/A	< 0.05	N/A
	4/26/2004	< 0.05	< 0.05	0.31	< 0.05	< 0.05	< 0.05	N/A	< 0.05	N/A
	10/21/2004	< 0.05	0.2	< 0.05	< 0.05	< 0.05	0.07	N/A	< 0.05	N/A
	4/26/2005	< 0.05	< 0.05	0.25	< 0.05	0.11	< 0.05	N/A	< 0.05	N/A
	10/5/2005	< 0.05	< 0.05	0.55	< 0.05	0.05	< 0.05	N/A	0.11	N/A
	4/26/2006	0.31	0.24	1.45	0.16	0.24	0.24	N/A	0.33	N/A
	10/10/2006	< 0.05	0.15	1.79	< 0.19	0.25	0.1	N/A	< 0.05	N/A
	4/19/2007	0.11	0.17	0.8	0.14	0.16	0.18	N/A	0.08	N/A
	10/10/2007	< 0.05	< 0.05	1.56	< 0.05	0.08	< 0.05	N/A	< 0.05	N/A
	4/23/2008	0.08	< 0.11	2.09	0.14	0.2	0.06	N/A	< 0.05	N/A
	10/14/2008	0.08	< 0.04	1.46	< 0.04	< 0.04	< 0.04	N/A	< 0.04	N/A
	4/22/2009	< 0.05	0.11	2.09	0.14	0.2	0.06	N/A	< 0.05	N/A
	10/19/2009	< 0.05	< 0.05	0.4	< 0.05	< 0.05	< 0.05	N/A	< 0.13	N/A
	11/23/2009	N/A	N/A	N/A	N/A	N/A	N/A	0.1	N/A	N/A
	1/14/2010	N/A	N/A	N/A	N/A	N/A	N/A	0.05	N/A	N/A
	4/14/2010	0.26	0.54	0.34	0.62	0.06	0.12	0.3	0.14	N/A
	7/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	0.04	N/A	N/A
	10/7/2010	0.12	0.31	1.75	0.26	0.57	0.31	0.32	0.09	N/A
	4/13/2011	< 0.05	< 0.05	1.36	0.12	0.18	< 0.05	< 0.05	< 0.05	N/A
	10/6/2011	< 0.05	0.65	2.5	< 0.05	0.18	0.23	0.06	< 0.05	N/A

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Summary of Groundwater Chemistry Climax Molybdenum Industrial Landfill (56 SDP 06 80P)

Other Constituents	Sample Date	MW-7 UPG	MW-18R UPG	MW-11 DNG	MW-15 DNG	MW-16 DNG	MW-17 DNG	MW-21 DNG	TW-2 DNG	TW-3 DNG
Nitrogen, Ammonia, mg/L (CAS NO - 7664-41-7)	4/12/2012	0.1	0.17	3.51	0.14	0.24	0.14	0.07	0.06	N/A
	10/10/2012	< 0.05	0.12	3.18	0.08	0.18	0.08	0.07	< 0.05	N/A
	4/25/2013	0.17	0.18	2.53	0.21	0.23	0.18	0.17	0.06	N/A
	10/9/2013	0.13	0.14	3.17	0.15	0.22	0.13	0.14	< 0.05	N/A
	4/10/2014	< 0.04	0.08	2.03	0.06	< 0.04	0.06	0.13	< 0.04	N/A
	10/7/2014	0.13	0.15	1.97	0.15	0.15	0.15	0.21	0.12	N/A
	1/15/2015	N/A	0.27	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2015	< 0.05	< 0.05	2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	N/A
	7/15/2015	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/13/2015	< 0.05	< 0.05	1.8	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	N/A
	5/24/2016	< 0.05	< 0.05	5.6	< 0.05	0.07	< 0.05	< 0.05	< 0.05	N/A
	10/10/2016	< 0.05	< 0.05	8	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	N/A
	4/11/2017	< 0.05	< 0.05	3.4	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	N/A
	10/18/2017	< 0.05	< 0.05	7.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	N/A
	4/12/2018	< 0.2	< 0.2	5.84	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	N/A
	8/2/2018	< 0.2	< 0.2	6.4	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	N/A
	4/9/2019	< 0.2	< 0.2	2.71	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	N/A
	8/28/2019	< 0.2	< 0.2	6.64	< 0.2	< 0.2	< 0.2	0.153	< 0.2	N/A
	3/16/2020	< 0.2	< 0.2	4.33	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	N/A
	3/16/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.2	N/A
	7/28/2020	< 0.2	< 0.2	0.983	< 0.2	< 0.2	1.19	< 0.2	< 0.2	N/A
	7/28/2020	N/A	N/A	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A
	3/18/2021	< 0.2	< 0.2	4.47	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	N/A
	3/18/2021	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/1/2021	< 0.2	< 0.2	5.83	< 0.2	< 0.2	0.0786*	0.0921*	< 0.2	N/A
	9/1/2021	N/A	N/A	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A
	6/29/2022	0.353	< 0.2	4.3	< 0.2	< 0.2	0.174*	< 0.2	< 0.2	N/A
	6/29/2022	N/A	N/A	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A
	8/16/2022	< 0.2	< 0.2	6.05	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	N/A
	8/16/2022	N/A	N/A	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A
	4/7/2023	< 0.2	< 0.2	2.92	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	N/A
	4/7/2023	N/A	N/A	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A
	7/27/2023	< 0.2	< 0.2	6.02	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	N/A
	7/27/2023	N/A	N/A	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A
	5/22/2024	0.539	0.375*	4.34	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A
	5/22/2024	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A
	7/30/2024	0.131*	< 0.2	6.39	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	N/A
	7/30/2024	N/A	N/A	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A
	2/26/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.2
	4/1/2025	< 0.2	< 0.2	4.25	< 0.2	< 0.2	< 0.2	< 0.2	N/A	< 0.2
	4/1/2025	N/A	N/A	N/A	N/A	N/A	< 0.2	N/A	N/A	N/A
	8/6/2025	< 0.2	< 0.2	8.59	< 0.2	< 0.2	1.35	< 0.2	N/A	< 0.2
	8/6/2025	N/A	N/A	N/A	N/A	N/A	2.88	N/A	N/A	N/A
pH, S.U. (CAS NO - PH)	10/21/1992	7.12	7.12	6.67	7.24	6.78	6.67	N/A	N/A	N/A
	1/13/1993	7.19	7.19	6.68	7.05	6.76	6.68	N/A	N/A	N/A
	4/14/1993	7.13	7.13	6.68	7.02	6.65	6.68	N/A	N/A	N/A
	7/14/1993	7.18	7.18	6.65	6.95	6.66	6.65	N/A	N/A	N/A
	10/14/1993	6.98	N/A	6.7	6.95	6.7	N/A	N/A	N/A	N/A
	4/13/1994	7.24	N/A	6.68	7.08	6.65	7.06	N/A	N/A	N/A
	10/6/1994	7.1	N/A	6.64	6.98	6.6	7.12	N/A	N/A	N/A
	4/18/1995	7.12	N/A	6.91	7.13	6.76	7.32	N/A	N/A	N/A
	10/11/1995	7.37	N/A	6.81	7.46	6.58	7.26	N/A	N/A	N/A
	4/11/1996	8.42	7.38	8.08	8.2	7.85	7.4	N/A	N/A	N/A
	10/28/1996	6.97	6.9	6.63	6.92	6.43	6.96	N/A	N/A	N/A
	4/25/1997	7.03	7.03	6.67	7.03	6.59	6.94	N/A	N/A	N/A
	10/20/1997	6.92	7	6.65	6.99	6.54	7.06	N/A	N/A	N/A
	3/26/1998	6.98	7.27	6.83	7.16	6.74	7.25	N/A	N/A	N/A
	10/13/1998	7.06	7.04	6.69	6.99	6.55	7.11	N/A	N/A	N/A
	3/25/1999	6.93	7.09	6.67	7.01	6.64	7.15	N/A	N/A	N/A
	4/26/1999	N/A	7.09	N/A	N/A	N/A	N/A	N/A	7.1	N/A
	8/6/1999	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.47	N/A
	10/14/1999	6.97	7.04	6.73	6.5	6.58	7.09	N/A	7.06	N/A
	3/23/2000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.29	N/A
	4/13/2000	6.92	6.92	6.69	6.69	6.63	7.02	N/A	7.05	N/A
	10/20/2000	6.91	7.08	6.79	7.05	6.55	7.23	N/A	7.1	N/A
	4/20/2001	7.05	7.3	6.93	7.34	6.84	7.37	N/A	7.5	N/A
	10/3/2001	6.89	7.15	6.88	7.14	6.65	7.07	N/A	7.1	N/A
	4/18/2002	6.73	7.02	6.75	7.05	6.73	7.11	N/A	7.09	N/A
	10/15/2002	6.75	6.95	6.6	6.95	6.56	7.05	N/A	7.06	N/A
	4/15/2003	6.78	7.02	6.59	7.01	6.57	7.07	N/A	7	N/A
	10/8/2003	6.56	6.72	6.45	6.74	6.36	6.88	N/A	6.96	N/A
	4/26/2004	6.83	7.17	6.79	7.13	6.74	7.19	N/A	7.28	N/A
	10/21/2004	6.68	7.03	6.73	7.07	6.56	7.14	N/A	7.15	N/A
	4/26/2005	6.77	7.07	6.73	7.08	6.66	7.02	N/A	7.09	N/A
	10/5/2005	6.82	7.08	6.73	7.05	6.64	7.11	N/A	7.14	N/A
	4/26/2006	6.95	7.17	6.85	7.2	6.87	7.34	N/A	7.95	N/A

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Other Constituents	Sample Date	MW-7 UPG	MW-18R UPG	MW-11 DNG	MW-15 DNG	MW-16 DNG	MW-17 DNG	MW-21 DNG	TW-2 DNG	TW-3 DNG
pH, S.U. (CAS NO - PH)	10/10/2006	6.7	6.92	6.57	6.89	6.52	6.94	N/A	6.96	N/A
	4/19/2007	6.87	6.9	6.67	7.06	6.59	7.12	N/A	7.17	N/A
	10/10/2007	6.58	7.13	6.7	7.1	6.58	7.22	N/A	7.13	N/A
	4/23/2008	6.82	7.07	6.74	7.04	6.65	7.08	N/A	7.16	N/A
	10/14/2008	6.77	7	6.61	7.01	6.69	7.15	N/A	7.16	N/A
	4/22/2009	6.58	6.92	6.46	6.9	6.65	6.9	N/A	6.95	N/A
	10/19/2009	6.77	6.64	6.53	7	6.64	6.74	N/A	6.96	N/A
	11/23/2009	N/A	N/A	N/A	N/A	N/A	N/A	6.82	N/A	N/A
	1/14/2010	N/A	N/A	N/A	N/A	N/A	N/A	6.44	N/A	N/A
	4/14/2010	7.24	7.38	7.08	7.31	7.28	7.64	7.14	7.6	N/A
	7/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	6.71	N/A	N/A
	10/7/2010	6.77	7.1	6.51	7.04	6.46	7.17	6.55	7.13	N/A
	4/13/2011	6.71	6.96	6.54	7.09	6.44	7.02	6.41	7.11	N/A
	10/6/2011	6.61	7.12	6.36	6.92	6.35	7.03	6.47	6.95	N/A
	4/12/2012	6.4	6.84	6.39	6.71	6.35	6.83	6.36	6.85	N/A
	10/10/2012	6.63	6.91	6.43	6.78	6.47	6.91	6.32	6.9	N/A
	4/25/2013	6.48	6.78	6.46	6.72	6.42	6.95	6.58	6.91	N/A
	10/9/2013	6.69	7.06	6.77	7.06	6.71	7.09	6.8	6.99	N/A
	4/10/2014	6.69	7.15	6.61	6.96	6.57	7.03	6.7	7.06	N/A
	10/7/2014	6.84	7.17	6.71	7.12	6.6	7.16	6.63	7.13	N/A
	4/14/2015	6.73	7.03	6.45	6.89	6.48	7.18	6.5	7.18	N/A
	7/15/2015	N/A	6.87	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/13/2015	6.78	7.16	6.52	7.18	6.58	7.08	6.61	7.1	N/A
	5/24/2016	6.96	7.7	6.59	7.39	6.61	7.33	6.91	7.94	N/A
	10/10/2016	6.63	7.11	6.39	7.18	6.43	7.14	6.52	7.09	N/A
	4/11/2017	6.89	7.19	6.61	7.38	6.67	7.23	6.9	7.54	N/A
	10/18/2017	6.83	7.16	6.64	7.28	6.62	7.38	6.69	7.25	N/A
	4/12/2018	6.96	7.19	6.77	7.36	6.76	7.44	6.97	7.35	N/A
	8/2/2018	7.32	7.09	6.84	7.22	6.8	7.11	7.48	7.96	N/A
	4/9/2019	6.46	6.82	6.43	6.94	6.39	6.73	6.45	7.03	N/A
	8/28/2019	6.55	7.04	6.43	7.02	6.51	6.94	6.49	7.06	N/A
	3/16/2020	6.66	6.9	6.52	6.96	6.47	7.03	6.54	7.15	N/A
	7/28/2020	6.6	6.83	6.22	6.87	6.37	6.87	6.34	6.54	N/A
	3/18/2021	6.86	7.11	6.67	7.22	6.65	7.14	6.74	7.28	N/A
	9/1/2021	6.62	6.93	6.4	6.94	6.36	7.04	6.46	6.93	N/A
	6/29/2022	6.66	6.83	6.3	6.93	6.3	6.79	6.54	6.96	N/A
	8/16/2022	6.61	6.88	6.36	7.04	6.46	6.88	6.48	6.9	N/A
	4/7/2023	6.7	6.92	6.48	6.92	6.39	6.99	6.67	7.17	N/A
	7/27/2023	6.65	6.91	6.42	6.98	6.37	6.9	6.54	6.92	N/A
	5/22/2024	6.67	6.92	6.5	6.94	6.24	6.9	6.55	6.95	N/A
	7/30/2024	6.69	6.86	6.54	6.95	6.5	7.11	6.6	6.96	N/A
	2/26/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.36
	4/1/2025	6.82	7.07	6.63	7.1	6.56	7.05	6.67	N/A	7.25
	8/6/2025	6.61	6.92	6.41	6.83	6.4	6.99	6.67	N/A	6.94
Specific Conductance, umhos/cm (CAS NO - SC)	10/21/1992	900	900	950	900	1300	950	N/A	N/A	N/A
	1/13/1993	812	812	1064	1022	1434	1064	N/A	N/A	N/A
	4/14/1993	829	829	1072	1009	1418	1072	N/A	N/A	N/A
	7/14/1993	862	862	1104	998	1412	1104	N/A	N/A	N/A
	10/14/1993	837	N/A	1019	913	1283	N/A	N/A	N/A	N/A
	4/13/1994	886	N/A	1200	1013	1428	1115	N/A	N/A	N/A
	10/6/1994	787	N/A	1112	912	1273	1032	N/A	N/A	N/A
	4/18/1995	812	N/A	1160	908	1287	1123	N/A	N/A	N/A
	10/11/1995	1040	N/A	1330	1015	1434	1162	N/A	N/A	N/A
	4/11/1996	974	915	1285	1030	1417	1150	N/A	N/A	N/A
	10/28/1996	947	900	1388	1012	1415	1169	N/A	N/A	N/A
	4/25/1997	991	884	1371	1004	1403	1171	N/A	N/A	N/A
	10/20/1997	1040	882	1351	996	1421	1165	N/A	N/A	N/A
	3/26/1998	1029	881	1329	1006	1412	1174	N/A	N/A	N/A
	10/13/1998	1074	877	1365	1012	1450	1216	N/A	N/A	N/A
	3/25/1999	1061	881	1353	1008	1421	1209	N/A	N/A	N/A
	4/26/1999	N/A	881	N/A	N/A	N/A	N/A	N/A	856	N/A
	8/6/1999	N/A	N/A	N/A	N/A	N/A	N/A	N/A	868	N/A
	10/14/1999	964	777	1216	2470	1263	1077	N/A	765	N/A
	3/23/2000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	842	N/A
	4/13/2000	1099	875	1330	1035	1400	1212	N/A	849	N/A
	10/20/2000	1141	875	1311	1000	1429	1210	N/A	846	N/A
	4/20/2001	1202	887	1287	1081	1407	1261	N/A	851	N/A
	10/3/2001	1233	888	1099	1020	1490	1326	N/A	852	N/A
	4/18/2002	1213	888	1317	1046	1442	1217	N/A	846	N/A
	10/15/2002	1230	895	1302	1025	1495	1230	N/A	855	N/A
	4/15/2003	1158	889	1285	1000	1444	1217	N/A	843	N/A
	10/8/2003	1217	884	1299	1034	1451	1250	N/A	858	N/A
	4/26/2004	1200	889	1318	1041	1449	1250	N/A	855	N/A
	10/21/2004	1154	892	1365	1042	1465	1334	N/A	851	N/A
	4/26/2005	1138	891	1359	1026	1444	1258	N/A	856	N/A
	10/5/2005	993	800	1226	906	1275	1132	N/A	754	N/A

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Summary of Groundwater Chemistry Climax Molybdenum Industrial Landfill (56 SDP 06 80P)

Other Constituents	Sample Date	MW-7 UPG	MW-18R UPG	MW-11 DNG	MW-15 DNG	MW-16 DNG	MW-17 DNG	MW-21 DNG	TW-2 DNG	TW-3 DNG
Specific Conductance, umhos/cm (CAS NO - SC)	4/26/2006	1039	790	2080	911	1273	1136	N/A	763	N/A
	10/10/2006	1104	910	1438	1008	1425	1456	N/A	845	N/A
	4/19/2007	1212	888	1379	986	1449	1281	N/A	840	N/A
	10/10/2007	1139	939	1416	990	1452	1246	N/A	849	N/A
	4/23/2008	1271	914	1397	1043	1480	1261	N/A	870	N/A
	10/14/2008	1236	922	1467	1017	1477	1288	N/A	867	N/A
	4/22/2009	1220	932	1555	1061	1578	1323	N/A	882	N/A
	10/19/2009	1101	2348	1632	1007	1550	1408	N/A	863	N/A
	11/23/2009	N/A	N/A	N/A	N/A	N/A	N/A	1468	N/A	N/A
	1/14/2010	N/A	N/A	N/A	N/A	N/A	N/A	3075	N/A	N/A
	4/14/2010	1130	1012	1612	972	1499	1262	3350	829	N/A
	7/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	3200	N/A	N/A
	10/7/2010	1180	1002	1492	984	1554	1308	2918	836	N/A
	4/13/2011	1173	1595	1462	957	1526	1196	3162	823	N/A
	10/6/2011	1168	946	1389	966	1530	1363	2951	827	N/A
	4/12/2012	1205	966	1452	982	1501	1455	2653	824	N/A
	10/10/2012	1159	941	1469	971	1488	1322	2470	836	N/A
	4/25/2013	1235	951	1554	959	1516	1336	2086	841	N/A
	10/9/2013	1208	941	1482	966	1488	1360	2326	844	N/A
	4/10/2014	1245	953	1430	946	1497	1308	1836	830	N/A
	10/7/2014	1223	885	1492	962	1481	1353	2114	843	N/A
	4/14/2015	1166	882	1488	944.7	1453	1339	2311	808.6	N/A
	7/15/2015	N/A	869	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/13/2015	1158	884	1524	959	1519	1393	2191	839	N/A
	5/24/2016	1094	823	1327	857	1337	1154	1782	770	N/A
	10/10/2016	1208	724	1301	905	1360	1101	194	745	N/A
	4/11/2017	1099	819	1288	548	1371	1127	1793	820	N/A
	10/18/2017	1227	835	1292	772	1313	1280	1885	887	N/A
	4/12/2018	1386	921	1432	984	1589	1434	1915	1036	N/A
	8/2/2018	1434	1000	1411	1011	1563	1431	2200	961	N/A
	4/9/2019	1233.4	860.1	1388.5	876.7	1451.7	1207	2416.2	916.2	N/A
	8/28/2019	1165	848	1220.6	882.3	1340.8	1148.4	2154.6	946.6	N/A
	3/16/2020	1204	883	1413	900	1490	1397	2672	971	N/A
	7/28/2020	1286.5	938	1582.9	1062.5	1578.8	1447.3	3179	1172.8	N/A
	3/18/2021	1212.4	897.7	1442.4	959.9	1532.9	1386.1	2898.6	1063.7	N/A
	9/1/2021	1189.5	913.4	1435.2	996.5	1530.2	1390.9	2705.6	1227.8	N/A
	6/29/2022	1128.9	878.2	1327.6	931.3	1463.3	1312.3	2190.6	1265.9	N/A
	8/16/2022	1137.9	890.4	1352.6	892.7	1492	1337.2	2487.5	1246.8	N/A
	4/7/2023	1041.1	827.1	1304.9	706.6	1417.5	1265.8	2007	1097.3	N/A
	7/27/2023	1120.8	882.7	1346.2	923.9	1490.1	1341.3	2115.9	1255.5	N/A
	5/22/2024	1237.5	945.8	1439.9	870.5	1619.2	1370.3	2108.6	1366.8	N/A
	7/30/2024	1109.2	850.2	1296	897.6	1493.2	1353.3	2009.4	1277.5	N/A
	2/26/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	935.7
	4/1/2025	1209.2	893.5	1385.6	975.9	1590.6	1404	2075.3	N/A	865.7
	8/6/2025	1176.5	906.5	1348.1	1044.2	1593.9	1462.8	1464.5	N/A	732.9
Sulfate, mg/L (CAS NO - 14808-79-8)	10/21/1992	N/A	N/A	101	117	346	101	N/A	N/A	N/A
	1/13/1993	40	N/A	67	72	246	67	N/A	N/A	N/A
	4/14/1993	40	N/A	70	71	262	70	N/A	N/A	N/A
	7/14/1993	40	N/A	70	71	262	70	N/A	N/A	N/A
	10/14/1993	43	N/A	78	77	252	N/A	N/A	N/A	N/A
	4/13/1994	47	N/A	98	86	299	208	N/A	N/A	N/A
	10/6/1994	45	N/A	108	101	236	96	N/A	N/A	N/A
	4/18/1995	43	N/A	116	77	230	285	N/A	N/A	N/A
	10/11/1995	46	N/A	257	79	214	196	N/A	N/A	N/A
	4/11/1996	44	46	121	77	218	191	N/A	N/A	N/A
	10/28/1996	41	38	109	67	170	179	N/A	N/A	N/A
	4/25/1997	44	49	137	80	224	49	N/A	N/A	N/A
	10/20/1997	44	50	125	90	234	275	N/A	N/A	N/A
	3/26/1998	50	73	128	121	267	325	N/A	N/A	N/A
	10/13/1998	66	56	93	83	195	229	N/A	N/A	N/A
	3/25/1999	88	55	221	190	569	572	N/A	N/A	N/A
	4/26/1999	N/A	N/A	N/A	N/A	N/A	N/A	N/A	53	N/A
	8/6/1999	N/A	N/A	N/A	N/A	N/A	N/A	N/A	45	N/A
	10/14/1999	32	44	81	83	245	240	N/A	33	N/A
	3/23/2000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	46	N/A
	4/13/2000	45	60	108	102	263	225	N/A	48	N/A
	10/20/2000	40	52	96	93	341	302	N/A	48	N/A
	4/20/2001	40	54	88	126	330	330	N/A	50	N/A
	10/3/2001	36	57	92	159	346	319	N/A	47	N/A
	4/18/2002	39	54	95	118	388	320	N/A	48	N/A
	10/15/2002	39	51	65	119	340	290	N/A	42	N/A
	4/15/2003	44	60	44	55	390	327	N/A	56	N/A
	10/8/2003	39	52	84	100	345	310	N/A	51	N/A
	4/26/2004	32	119	102	114	298	328	N/A	46	N/A
	10/21/2004	52	61	93	85	292	272	N/A	55	N/A
	4/26/2005	38	43	114	112	304	178	N/A	45	N/A

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Summary of Groundwater Chemistry Climax Molybdenum Industrial Landfill (56 SDP 06 80P)

Other Constituents	Sample Date	MW-7 UPG	MW-18R UPG	MW-11 DNG	MW-15 DNG	MW-16 DNG	MW-17 DNG	MW-21 DNG	TW-2 DNG	TW-3 DNG
Sulfate, mg/L (CAS NO - 14808-79-8)	10/5/2005	34	53	109	103	429	306	N/A	48	N/A
	4/26/2006	62	51	86	131	333	320	N/A	43	N/A
	10/10/2006	38	59	115	124	330	325	N/A	50	N/A
	4/19/2007	40	55	118	90	323	326	N/A	47	N/A
	10/10/2007	42	58	95	94	319	281	301	54	N/A
	4/23/2008	40	54	115	104	341	260	360	52	N/A
	10/14/2008	36	54	165	109	350	286	474	48	N/A
	4/22/2009	41	53	148	101	433	300	N/A	50	N/A
	10/19/2009	46	884	184	35	317	317	N/A	64	N/A
	11/23/2009	N/A	N/A	N/A	N/A	N/A	N/A	442	N/A	N/A
	1/14/2010	N/A	N/A	N/A	N/A	N/A	N/A	1437	N/A	N/A
	4/14/2010	40	168	229	67	356	279	1510	57	N/A
	7/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	1313	N/A	N/A
	10/7/2010	39	184	138	87	391	327	1224	55	N/A
	4/13/2011	28	226	190	122	407	289	1389	62	N/A
	10/6/2011	38	145	167	118	366	432	1316	60	N/A
	4/12/2012	45	159	157	128	433	427	986	62	N/A
	10/10/2012	40	77	166	91	434	355	986	52	N/A
	4/25/2013	48	77	194	74	323	276	1041	63	N/A
	10/9/2013	43	94	171	106	437	371	486	56	N/A
	4/10/2014	73	96	153	88	351	271	477	52	N/A
	10/7/2014	57	64	201	113	450	377	728	66	N/A
	1/15/2015	N/A	51	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2015	49	47	160	100	380	360	840	54	N/A
	7/15/2015	N/A	48	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/13/2015	64	47	160	110	360	390	640	60	N/A
	5/24/2016	100	47	52	110	400	320	850	83	N/A
	10/10/2016	74	48	11	110	400	340	710	89	N/A
	4/11/2017	72	44	58	71	400	320	810	110	N/A
	10/18/2017	46	43	< 8	95	430	370	850	120	N/A
	4/12/2018	138	52.3	15.3	115	460	348	700	144	N/A
	8/2/2018	94.2	49.9	38.9	111	460	304	782	135	N/A
	4/9/2019	82.3	53.5	100	120	468	289	944	138	N/A
	8/28/2019	60.9	48.5	39	101	410	292	1050	144	N/A
	3/16/2020	78.7	49.9	67.3	113	403	323	969	157	N/A
	3/16/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	157	N/A
	7/28/2020	75	46.4	139	127	396	293	1070	229	N/A
	7/28/2020	N/A	N/A	N/A	119	N/A	N/A	N/A	N/A	N/A
	3/18/2021	81	48.5	72.1	123	441	325	874	216	N/A
	3/18/2021	84.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/1/2021	84.7	51.1	57.6	119	407	323	844	303	N/A
	9/1/2021	N/A	N/A	N/A	108	N/A	N/A	N/A	N/A	N/A
	6/29/2022	57	45.6	55.1	83.2	345	276	648	321	N/A
	6/29/2022	N/A	N/A	N/A	82	N/A	N/A	N/A	N/A	N/A
	8/16/2022	67.1	49.9	39.9	94.7	397	305	845	323	N/A
	8/16/2022	N/A	N/A	N/A	94.8	N/A	N/A	N/A	N/A	N/A
	4/7/2023	73.6	49.7	68.8	84.8	399	319	723	322	N/A
	4/7/2023	N/A	N/A	N/A	79	N/A	N/A	N/A	N/A	N/A
	7/27/2023	78	53.1	41	119	435	328	704	368	N/A
	7/27/2023	N/A	N/A	N/A	117	N/A	N/A	N/A	N/A	N/A
	5/22/2024	82.4	49.1	39.9	67.7	394	282	590	353	N/A
	5/22/2024	N/A	N/A	N/A	N/A	N/A	292	N/A	N/A	N/A
	7/30/2024	82	50.6	22.2	125	449	354	553	379	N/A
	7/30/2024	N/A	N/A	N/A	126	N/A	N/A	N/A	N/A	N/A
	2/26/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	103
	4/1/2025	108	48.8	33.6	148	477	286	590	N/A	58.3
	4/1/2025	N/A	N/A	N/A	N/A	N/A	263	N/A	N/A	N/A
	8/6/2025	90.7	47.6	< 5	137	458	257	319	N/A	21.3
	8/6/2025	N/A	N/A	N/A	N/A	N/A	350	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.



Appendix D

Statistical Report

Attachment A

Trend Test ($\alpha=0.01$)

Trend Test

Climax Molybdenum Company Landfill

Client: SCS Engineers

Data: CMOLY_AM_2025_AWQR RSTUDIO

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<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 (bg)	-0.0002663	-6	-21	No	8	12.5	0.01	NP
Arsenic (mg/L)	MW-11	0.002209	16	21	No	8	0	0.01	NP
Cadmium (mg/L)	MW-16	-0.00003077	-21	-21	No	8	37.5	0.01	NP
Cadmium (mg/L)	MW-21	-0.00001971	-14	-21	No	8	62.5	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-7 (bg)	-0.6103	-6	-21	No	8	0	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-11	36.3	16	21	No	8	0	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-15	0.2346	1	21	No	8	25	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-16	-2.537	-23	-21	Yes	8	37.5	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-17	-1.124	-7	-21	No	8	25	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-18R (bg)	0	-1	-21	No	8	87.5	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-21	-1.749	-8	-21	No	8	12.5	0.01	NP
Chloride (mg/L)	MW-11	0.9198	14	21	No	8	0	0.01	NP
Chloride (mg/L)	MW-15	-0.403	-4	-21	No	8	0	0.01	NP
Chloride (mg/L)	MW-16	0.2081	16	21	No	8	0	0.01	NP
Chloride (mg/L)	MW-17	1.825	20	21	No	8	12.5	0.01	NP
Chloride (mg/L)	MW-18R (bg)	0.319	16	21	No	8	0	0.01	NP
Chloride (mg/L)	MW-21	-36.39	-22	-21	Yes	8	0	0.01	NP
Iron (mg/L)	MW-7 (bg)	-0.2083	-4	-21	No	8	0	0.01	NP
Iron (mg/L)	MW-11	6.841	18	21	No	8	0	0.01	NP
Iron (mg/L)	MW-17	0	1	21	No	8	37.5	0.01	NP
Iron (mg/L)	MW-18R (bg)	0	13	21	No	8	75	0.01	NP
Lithium (mg/L)	MW-7 (bg)	-0.0003793	-3	-21	No	8	0	0.01	NP
Lithium (mg/L)	MW-15	0.001336	4	21	No	8	0	0.01	NP
Lithium (mg/L)	MW-16	0.003408	6	21	No	8	0	0.01	NP
Lithium (mg/L)	MW-17	-0.001656	-8	-21	No	8	0	0.01	NP
Lithium (mg/L)	MW-18R (bg)	-0.0003714	-6	-21	No	8	0	0.01	NP
Lithium (mg/L)	MW-21	-0.002344	-13	-21	No	8	0	0.01	NP
Manganese (mg/L)	MW-7 (bg)	-0.1747	-16	-21	No	8	0	0.01	NP
Manganese (mg/L)	MW-11	-0.3497	-10	-21	No	8	0	0.01	NP
Manganese (mg/L)	MW-15	0	6	21	No	8	62.5	0.01	NP
Manganese (mg/L)	MW-16	-0.1354	-14	-21	No	8	0	0.01	NP
Manganese (mg/L)	MW-17	-0.02479	0	21	No	8	0	0.01	NP
Manganese (mg/L)	MW-18R (bg)	0.001137	10	21	No	8	62.5	0.01	NP
Manganese (mg/L)	MW-21	-0.1075	-14	-21	No	8	0	0.01	NP
Molybdenum (mg/L)	MW-11	0	0	21	No	8	12.5	0.01	NP
Molybdenum (mg/L)	MW-15	-0.00005141	-4	-21	No	8	0	0.01	NP
Molybdenum (mg/L)	MW-16	4.3e-7	6	21	No	8	50	0.01	NP
Molybdenum (mg/L)	MW-17	-0.0002638	-12	-21	No	8	12.5	0.01	NP
Molybdenum (mg/L)	MW-21	0	7	21	No	8	75	0.01	NP
Nitrogen, Ammonia (mg/L)	MW-7 (bg)	0	-4	-21	No	8	62.5	0.01	NP
Nitrogen, Ammonia (mg/L)	MW-11	0.7616	8	21	No	8	0	0.01	NP
Nitrogen, Ammonia (mg/L)	MW-17	0	4	21	No	8	75	0.01	NP
pH (S.U.)	MW-7 (bg)	0.01935	5	21	No	8	0	0.01	NP
pH (S.U.)	MW-11	0.09468	16	21	No	8	0	0.01	NP
pH (S.U.)	MW-15	-0.003838	0	21	No	8	0	0.01	NP
pH (S.U.)	MW-16	0.03512	8	21	No	8	0	0.01	NP
pH (S.U.)	MW-17	0.06454	16	21	No	8	0	0.01	NP
pH (S.U.)	MW-18R (bg)	0.0258	13	21	No	8	0	0.01	NP
pH (S.U.)	MW-21	0.05323	16	21	No	8	0	0.01	NP
Selenium (mg/L)	MW-17	0.0006959	2	21	No	8	0	0.01	NP

Trend Test

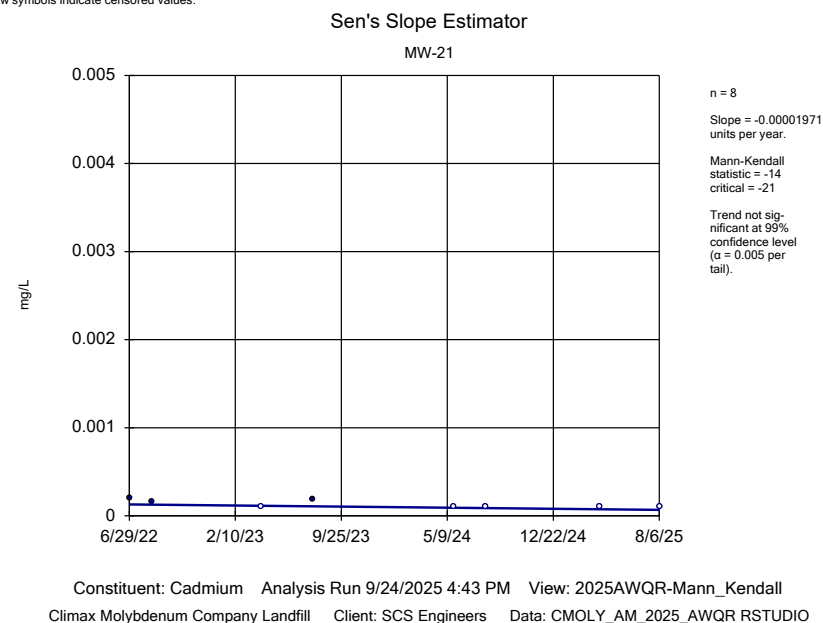
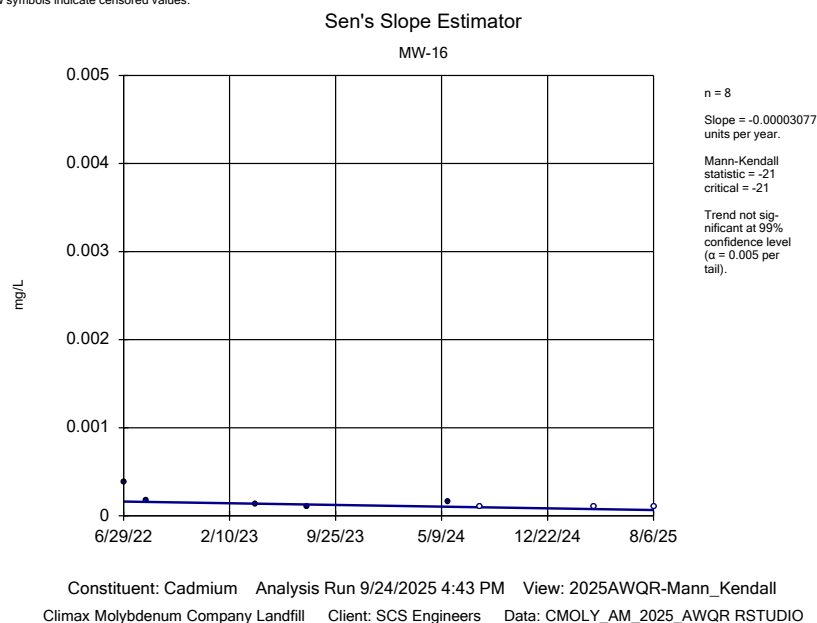
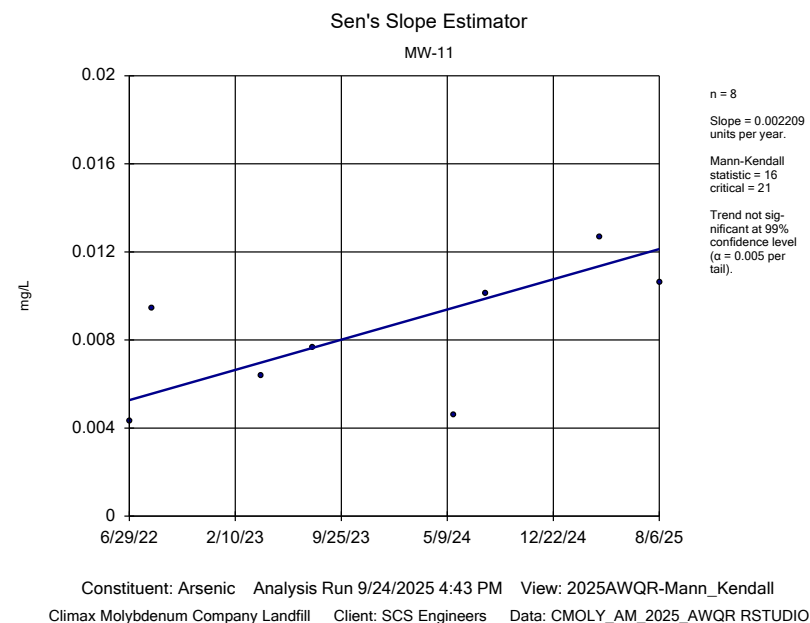
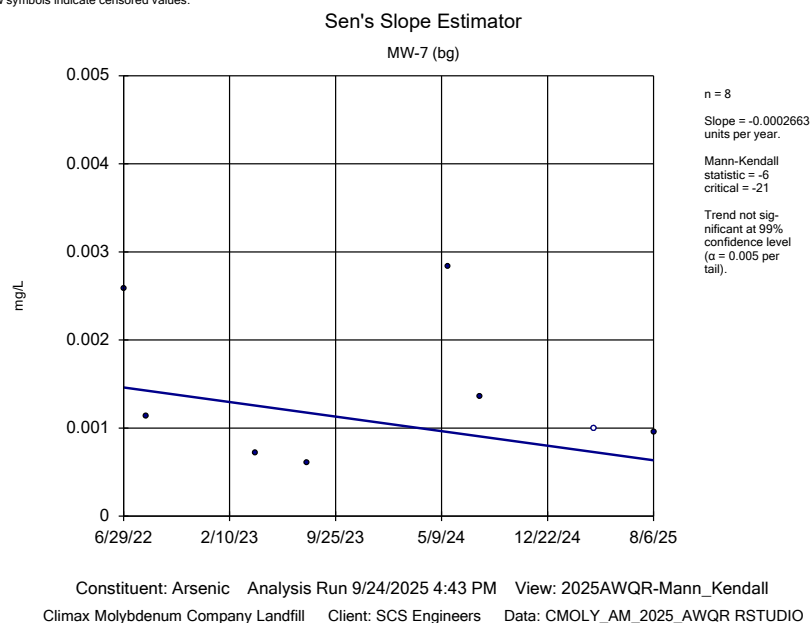
Climax Molybdenum Company Landfill

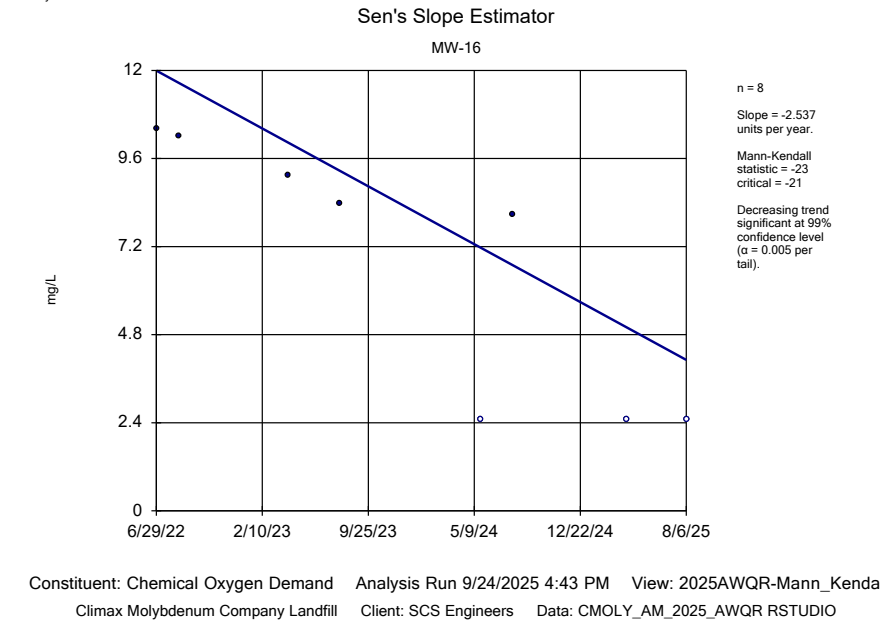
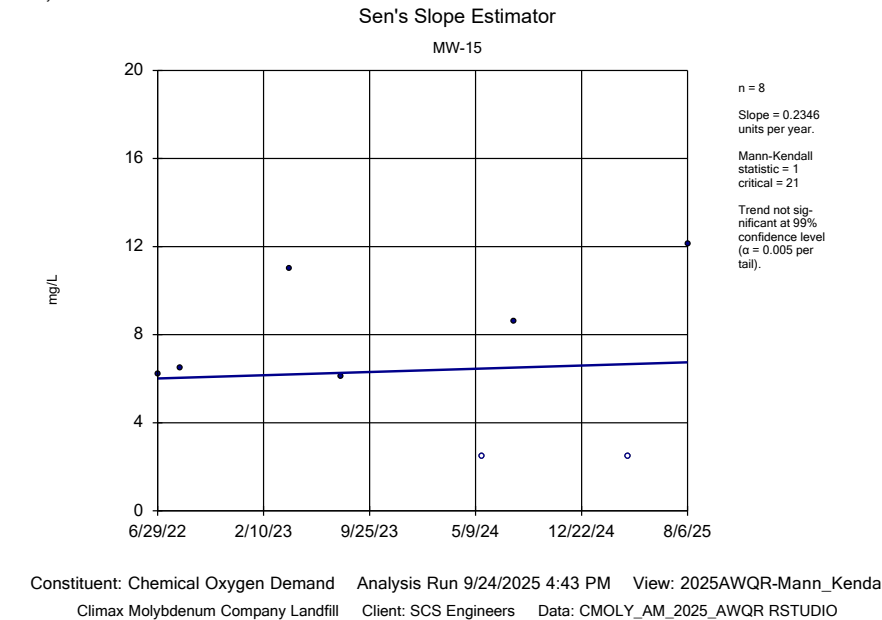
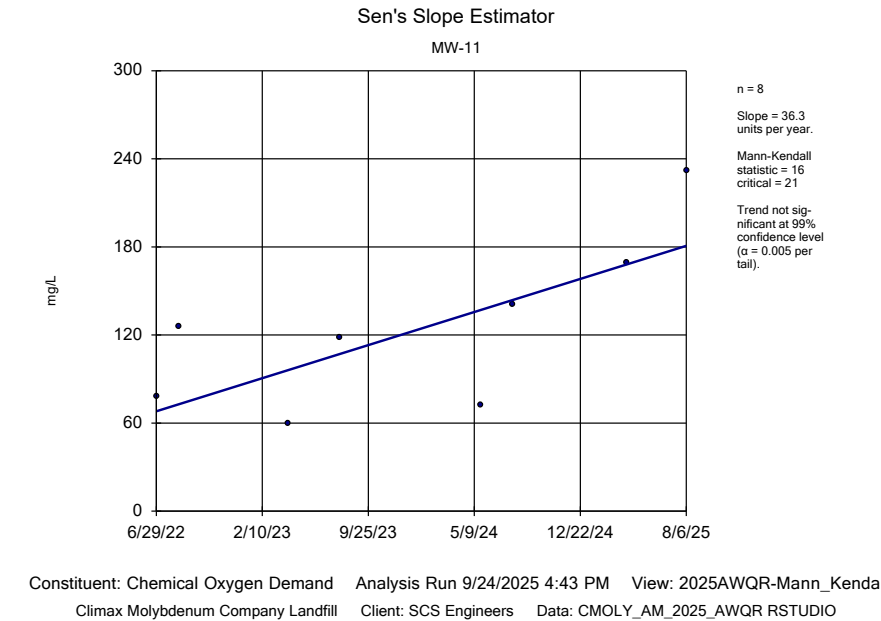
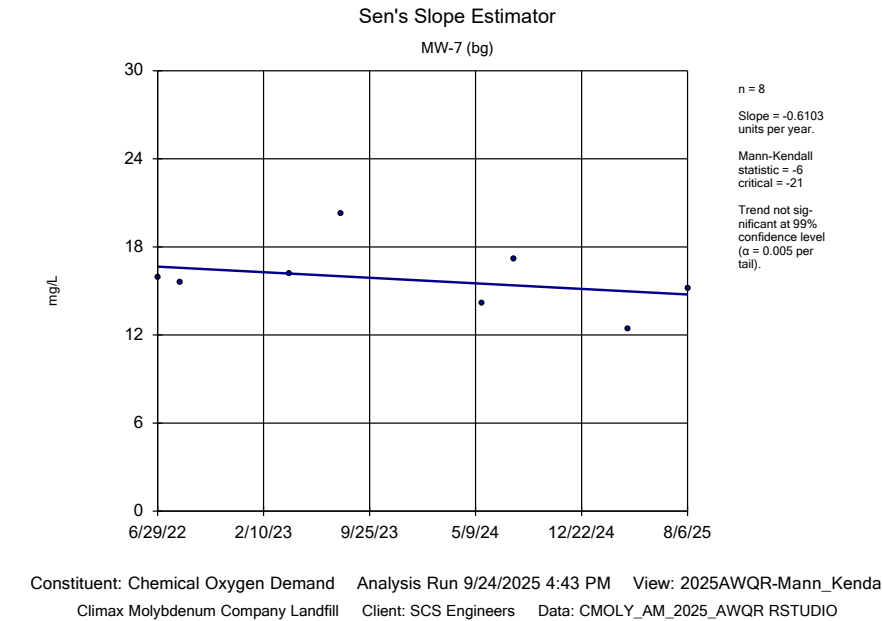
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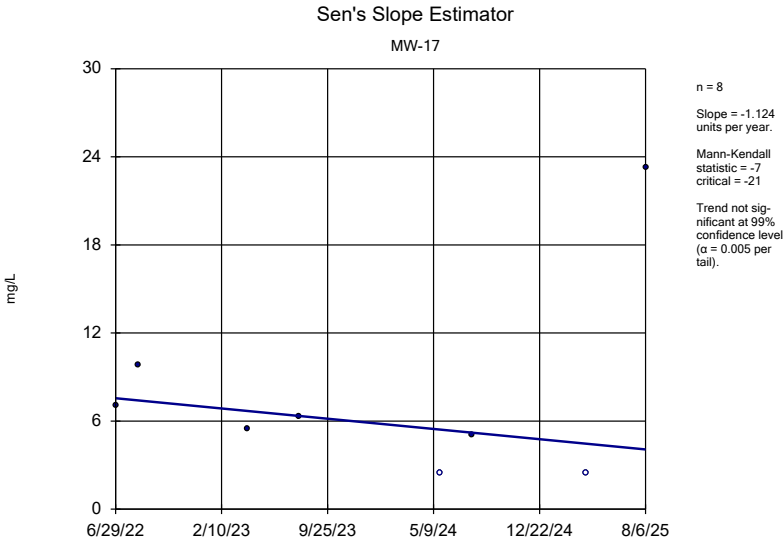
Data: CMOLY_AM_2025_AWQR RSTUDIO

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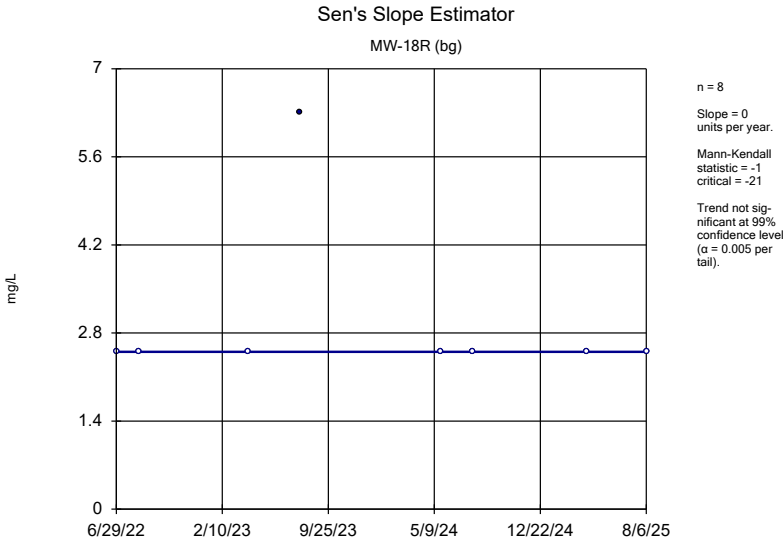
<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
Selenium (mg/L)	MW-18R (bg)	-0.00348	-16	-21	No	8	0	0.01	NP
Selenium (mg/L)	MW-21	0.007364	21	21	No	8	37.5	0.01	NP
Sodium (mg/L)	MW-7 (bg)	-9.675	-24	-21	Yes	8	0	0.01	NP
Sodium (mg/L)	MW-11	-2.781	-12	-21	No	8	0	0.01	NP
Sodium (mg/L)	MW-15	-0.6711	-4	-21	No	8	0	0.01	NP
Sodium (mg/L)	MW-16	-2.651	-16	-21	No	8	0	0.01	NP
Sodium (mg/L)	MW-17	-1.867	-19	-21	No	8	0	0.01	NP
Sodium (mg/L)	MW-18R (bg)	-2.045	-15	-21	No	8	0	0.01	NP
Sodium (mg/L)	MW-21	-13.9	-27	-21	Yes	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-7 (bg)	27.29	6	21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-11	9.579	4	21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-15	34.67	10	21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-16	44.09	16	21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-17	38.22	22	21	Yes	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-18R (bg)	7.765	10	21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-21	-131.1	-16	-21	No	8	0	0.01	NP
Strontium (mg/L)	MW-7 (bg)	-0.005038	-7	-21	No	8	0	0.01	NP
Strontium (mg/L)	MW-11	-0.009816	-12	-21	No	8	0	0.01	NP
Strontium (mg/L)	MW-15	0.004808	2	21	No	8	0	0.01	NP
Strontium (mg/L)	MW-16	0.001928	1	21	No	8	0	0.01	NP
Strontium (mg/L)	MW-17	-0.02141	-16	-21	No	8	0	0.01	NP
Strontium (mg/L)	MW-18R (bg)	-0.01642	-24	-21	Yes	8	0	0.01	NP
Strontium (mg/L)	MW-21	-0.1124	-22	-21	Yes	8	0	0.01	NP
Sulfate (mg/L)	MW-7 (bg)	10.49	24	21	Yes	8	0	0.01	NP
Sulfate (mg/L)	MW-11	-14.43	-19	-21	No	8	12.5	0.01	NP
Sulfate (mg/L)	MW-15	19.05	14	21	No	8	0	0.01	NP
Sulfate (mg/L)	MW-16	33.41	20	21	No	8	0	0.01	NP
Sulfate (mg/L)	MW-17	7.323	2	21	No	8	0	0.01	NP
Sulfate (mg/L)	MW-18R (bg)	-0.3837	-4	-21	No	8	0	0.01	NP
Sulfate (mg/L)	MW-21	-123.7	-19	-21	No	8	0	0.01	NP



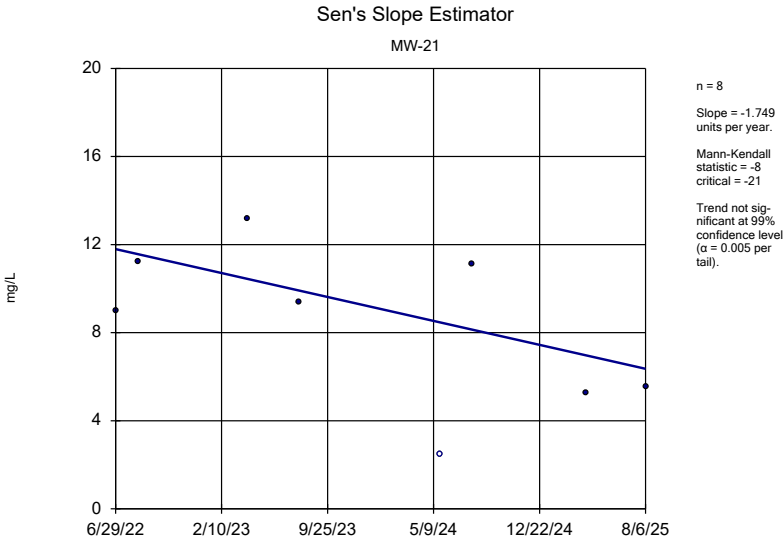




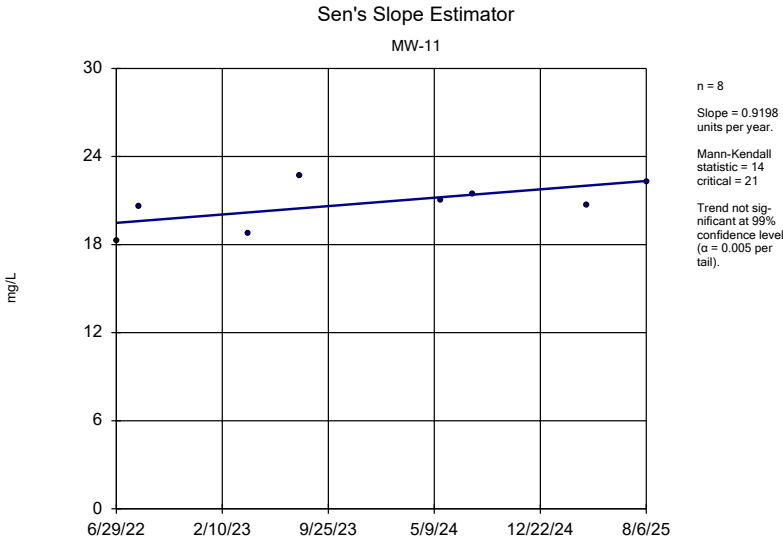
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Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY_AM_2025_AWQR RSTUDIO



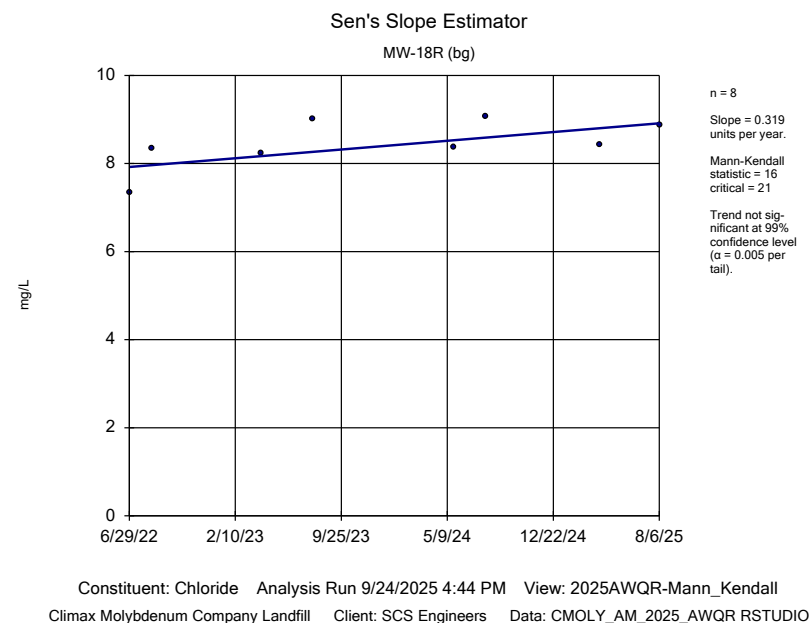
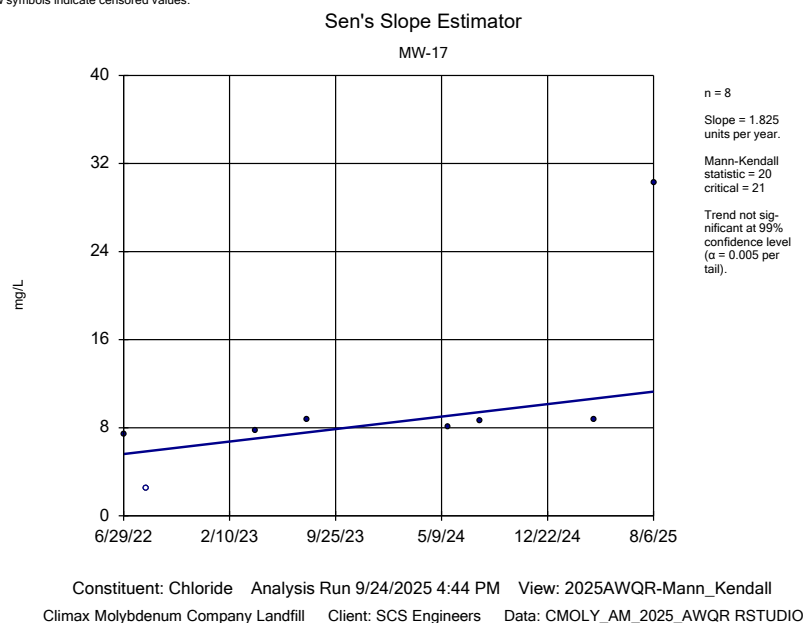
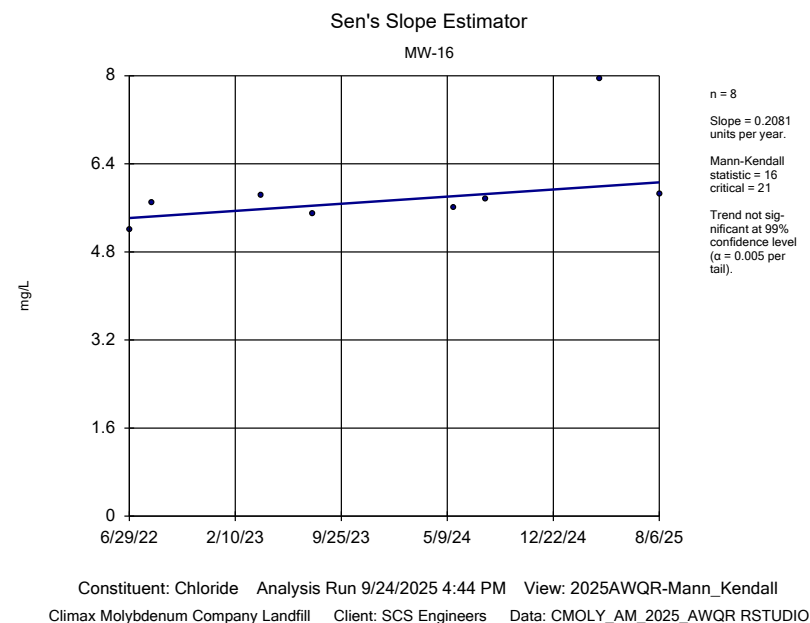
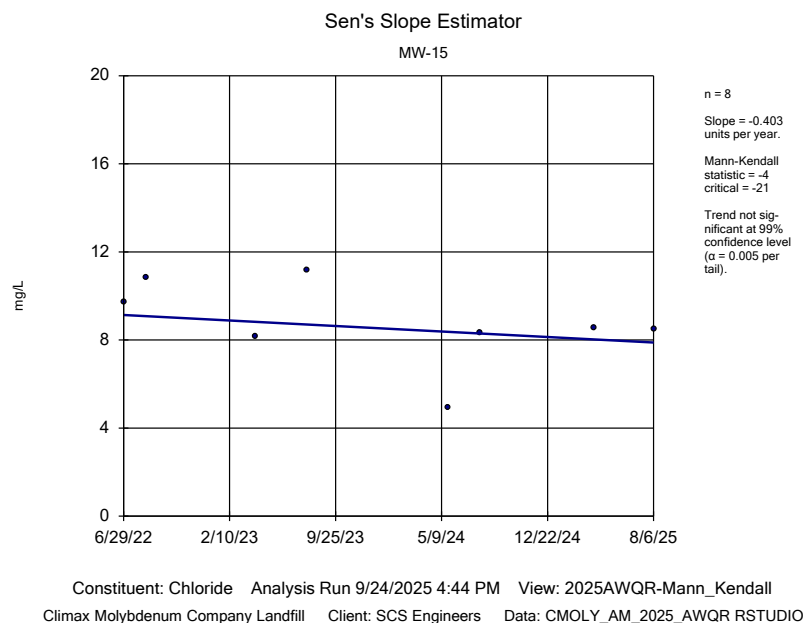
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Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY_AM_2025_AWQR RSTUDIO

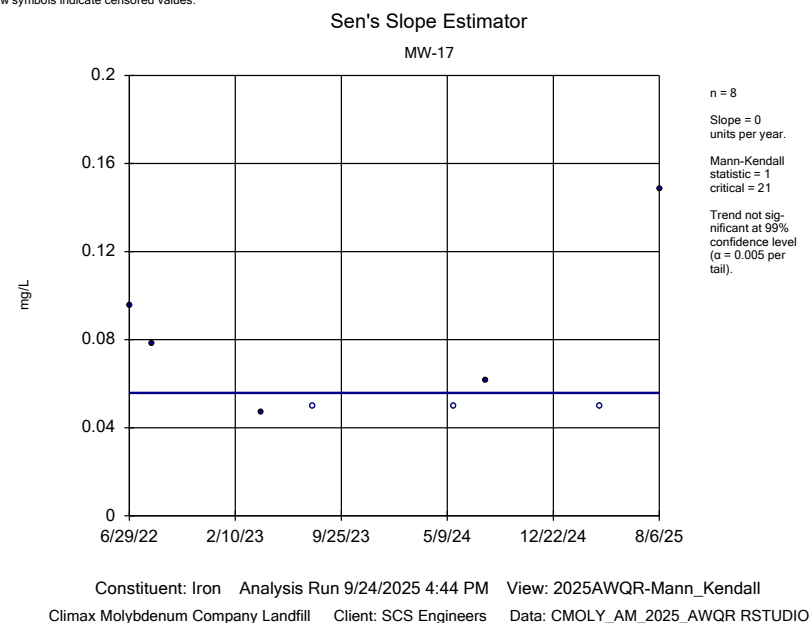
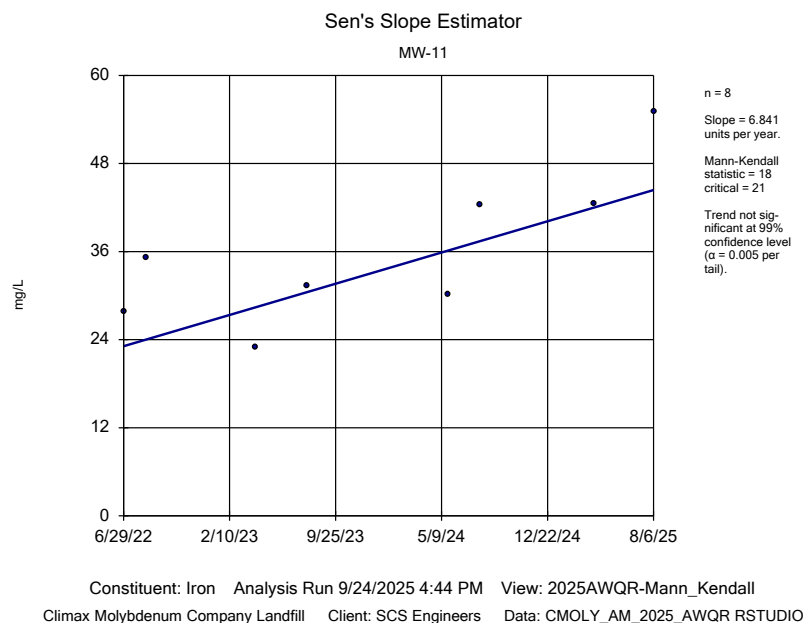
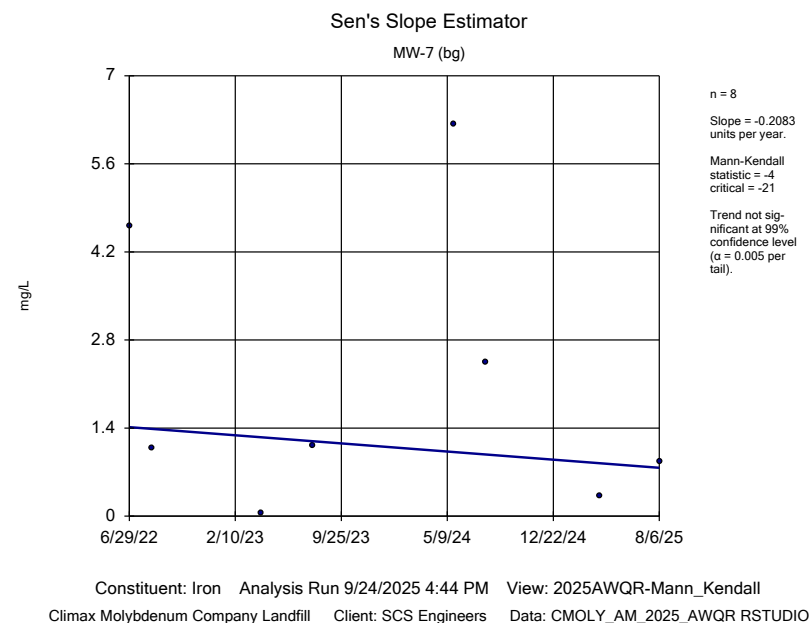
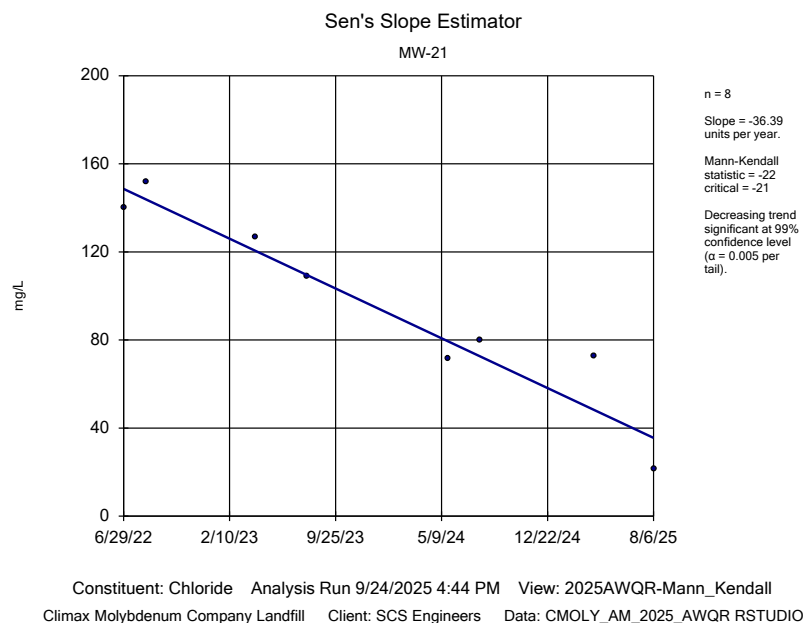


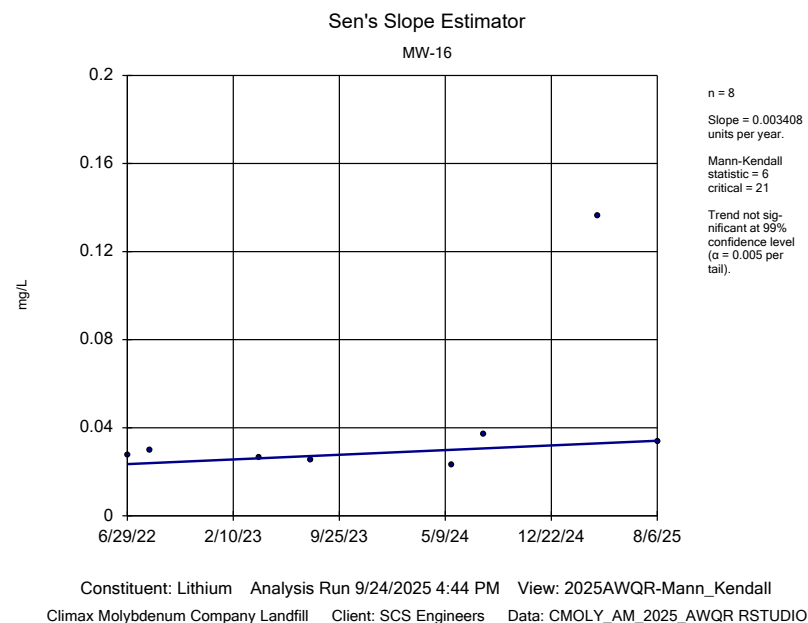
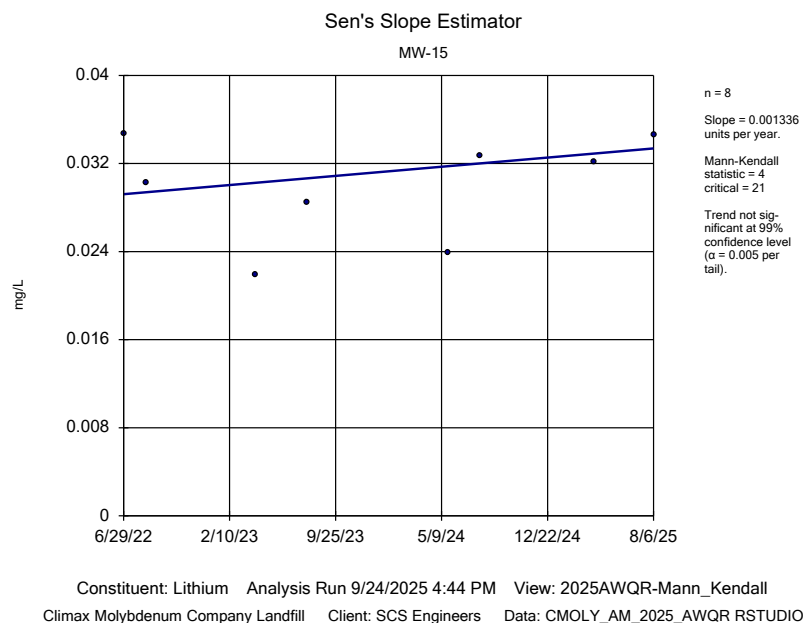
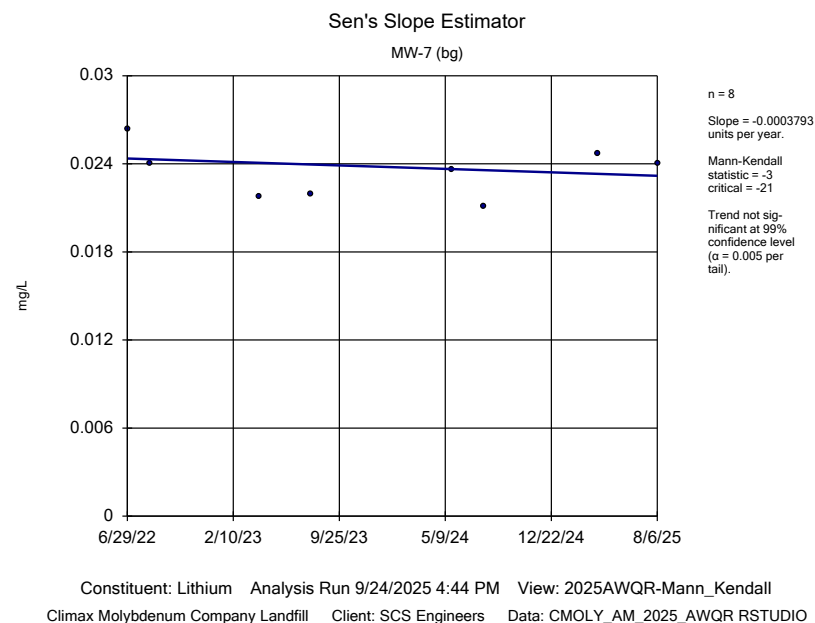
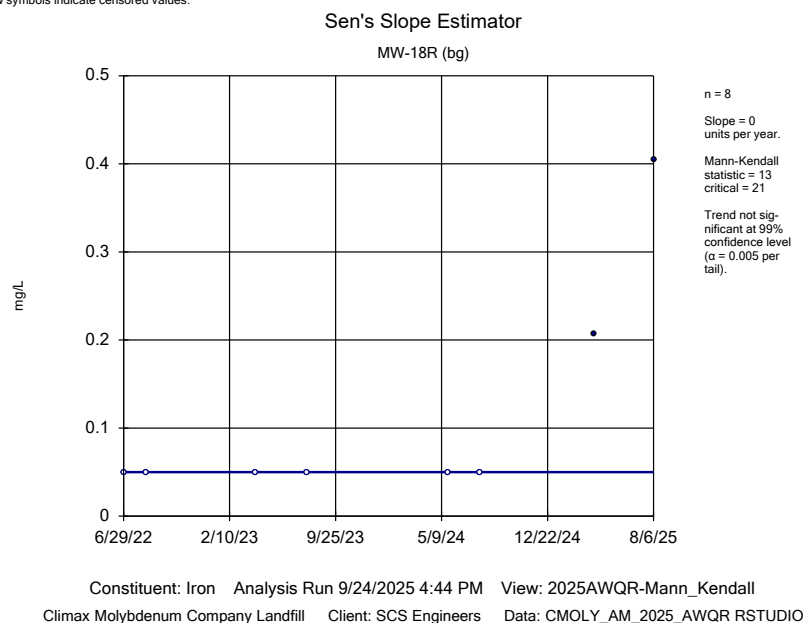
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Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY_AM_2025_AWQR RSTUDIO

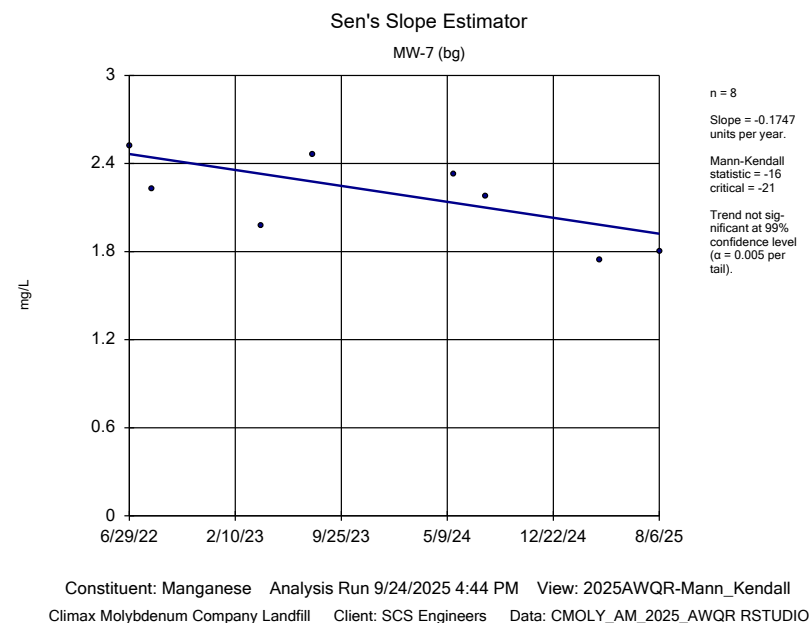
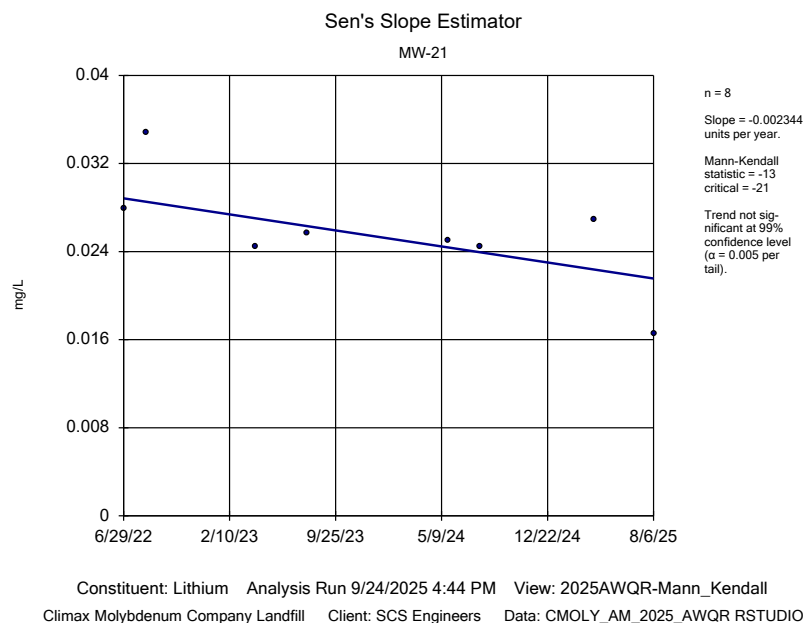
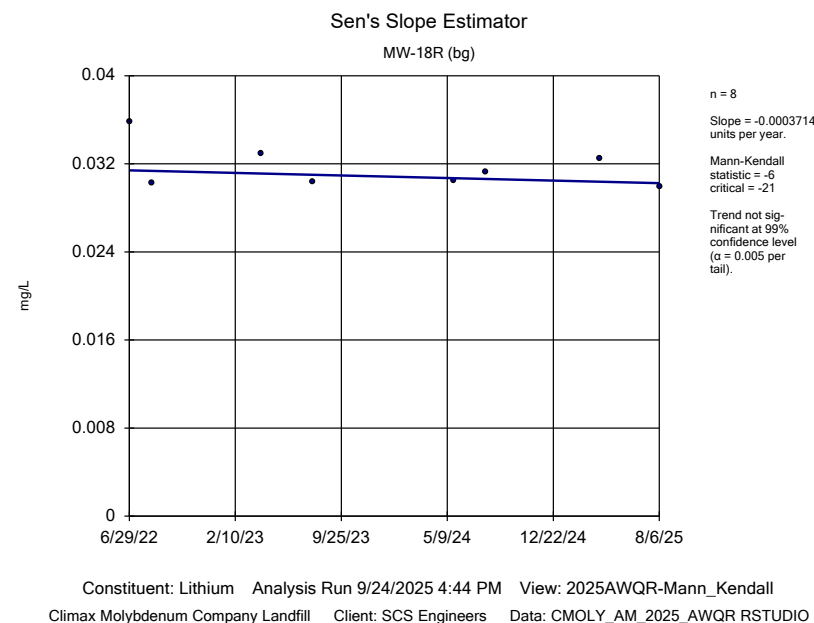
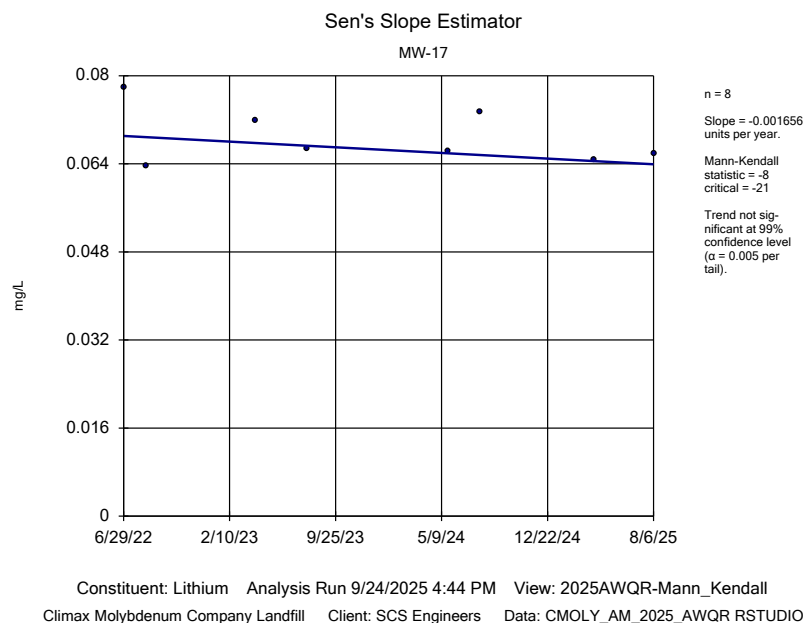


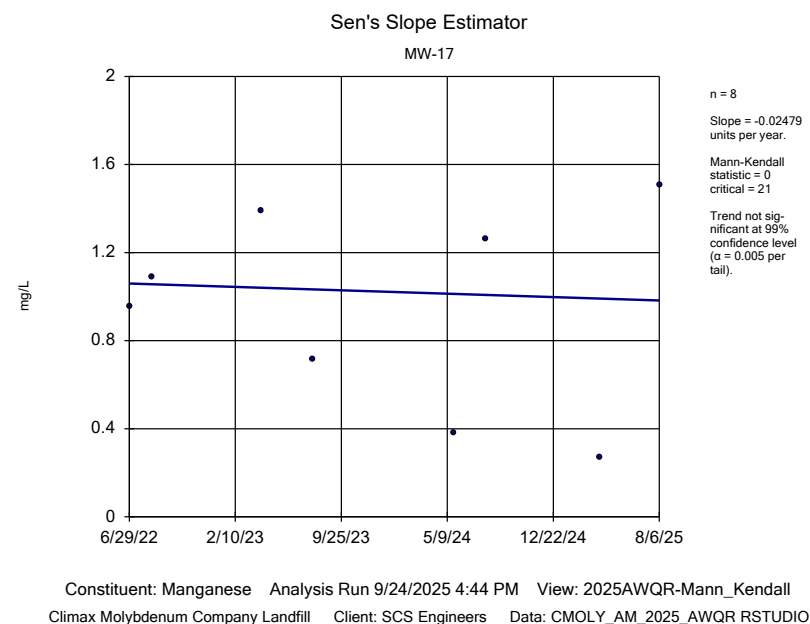
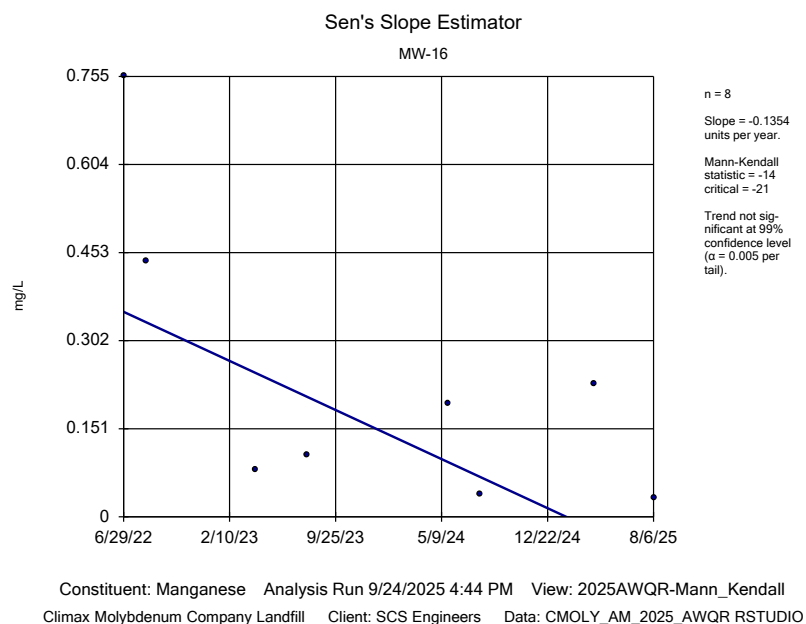
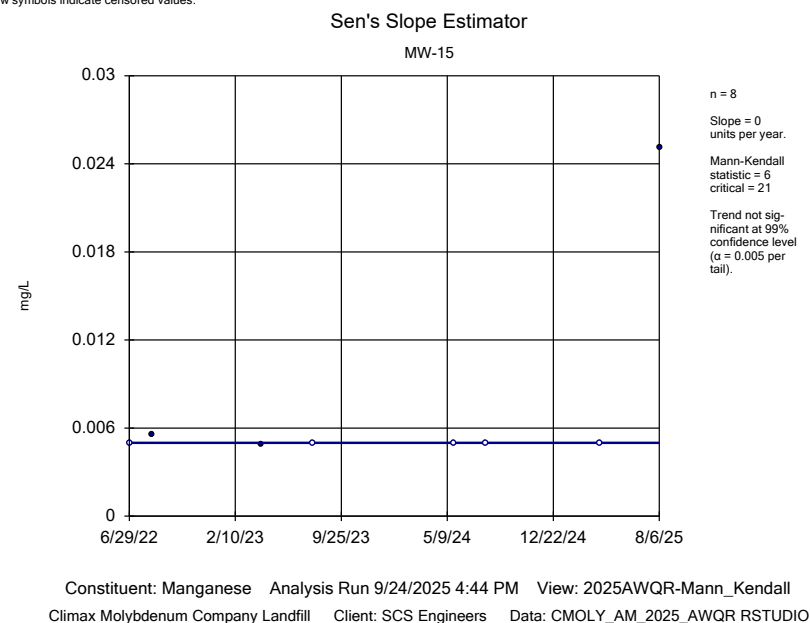
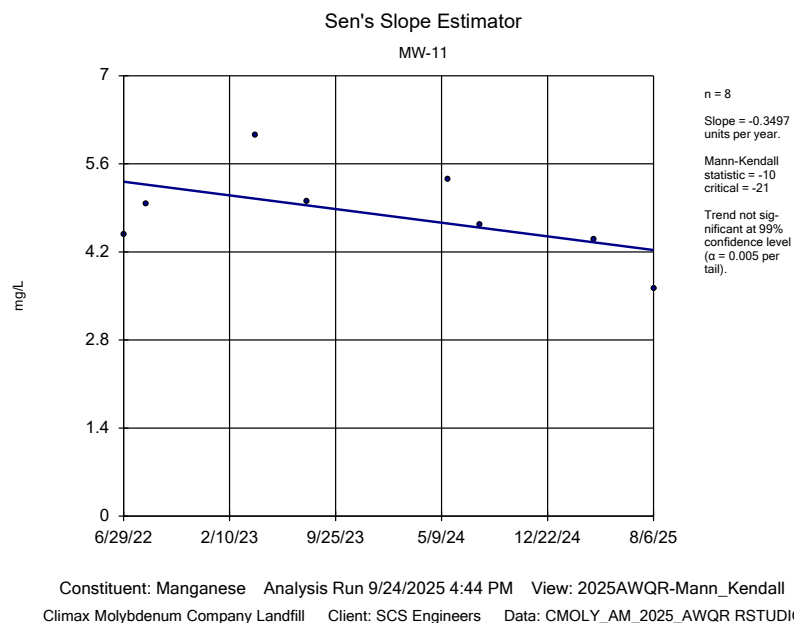
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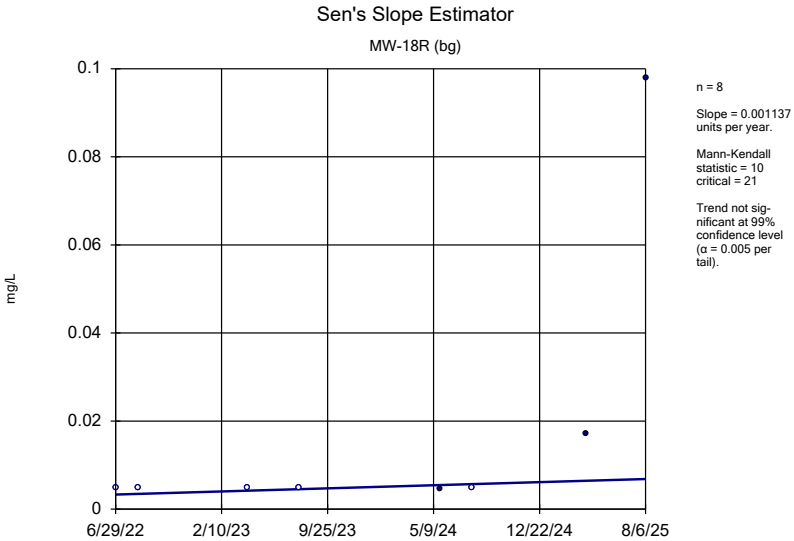




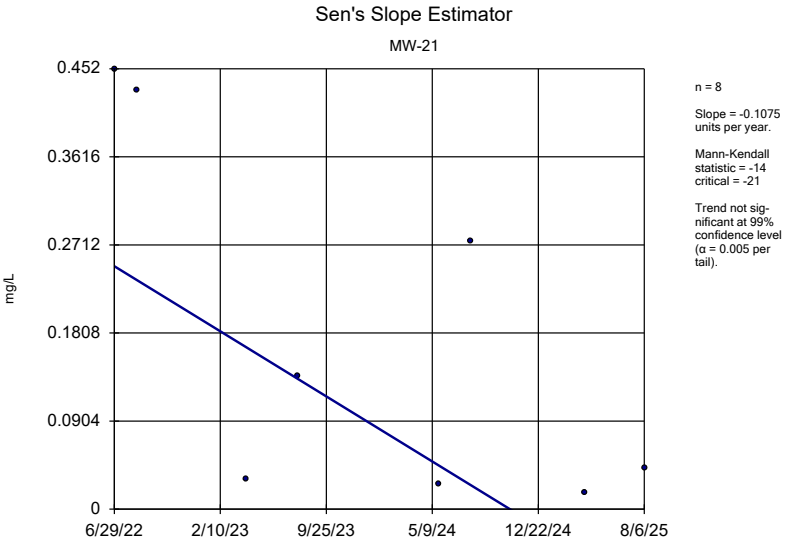




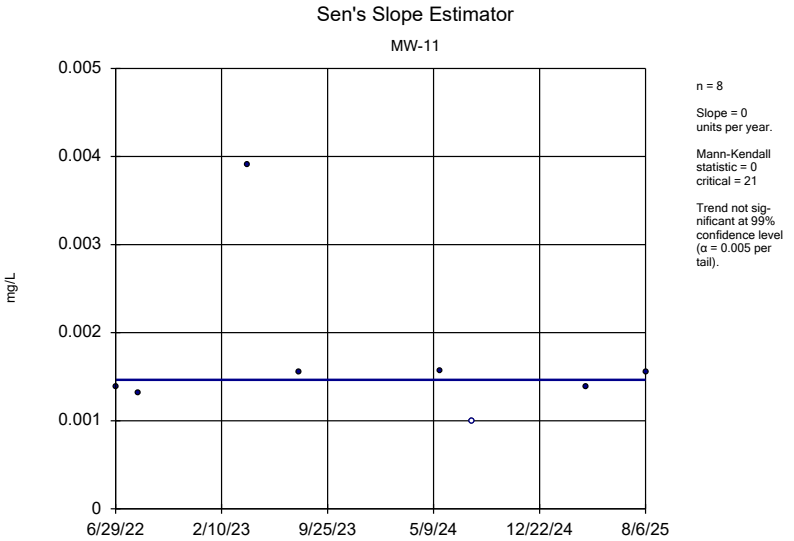




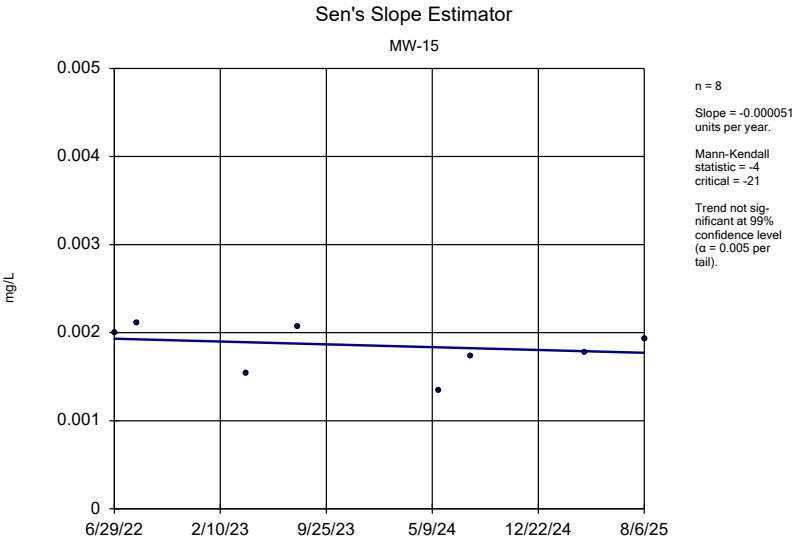
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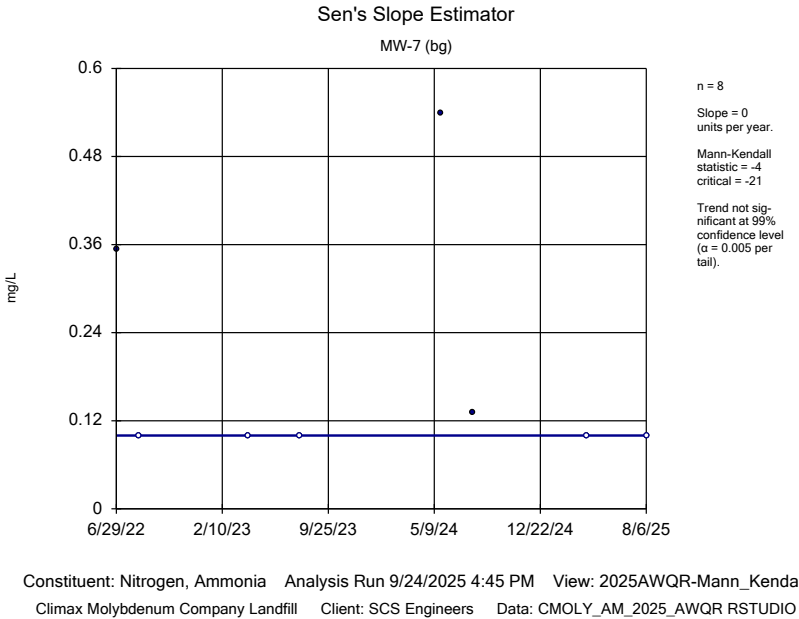
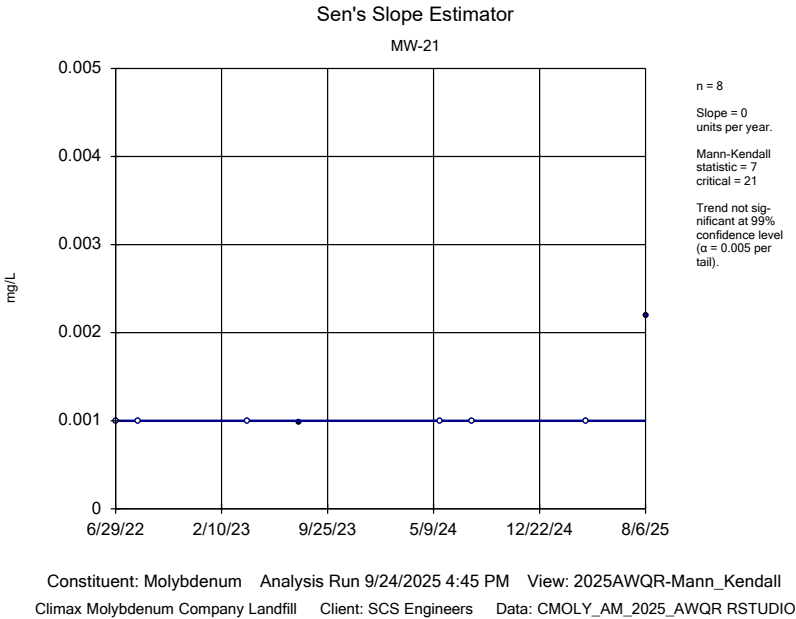
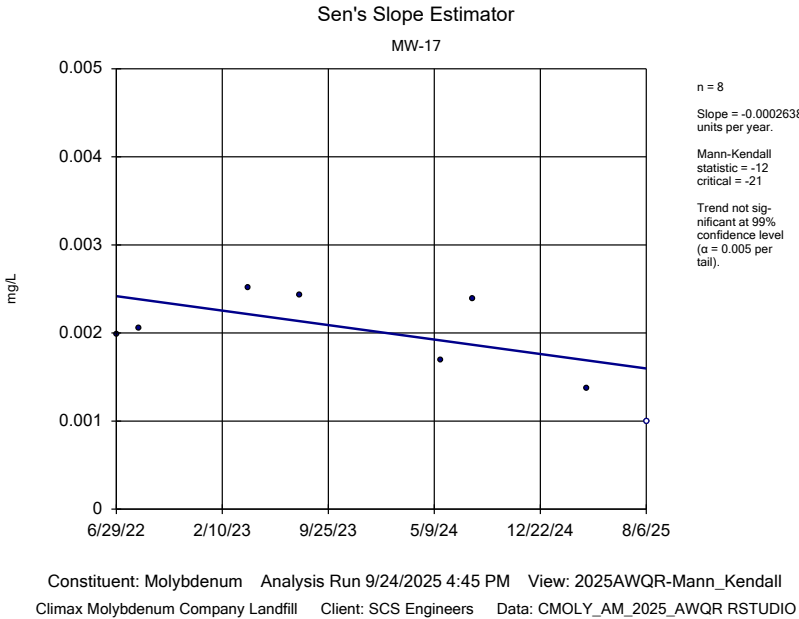
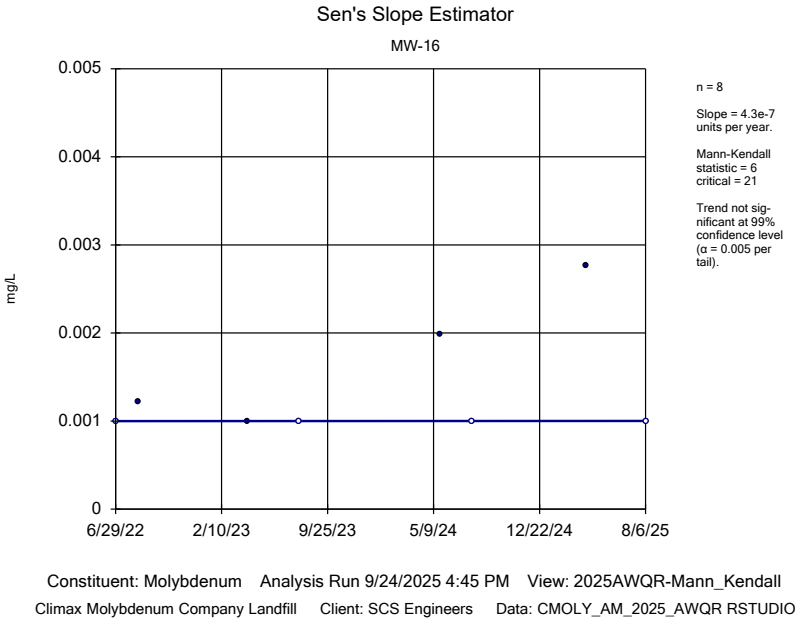
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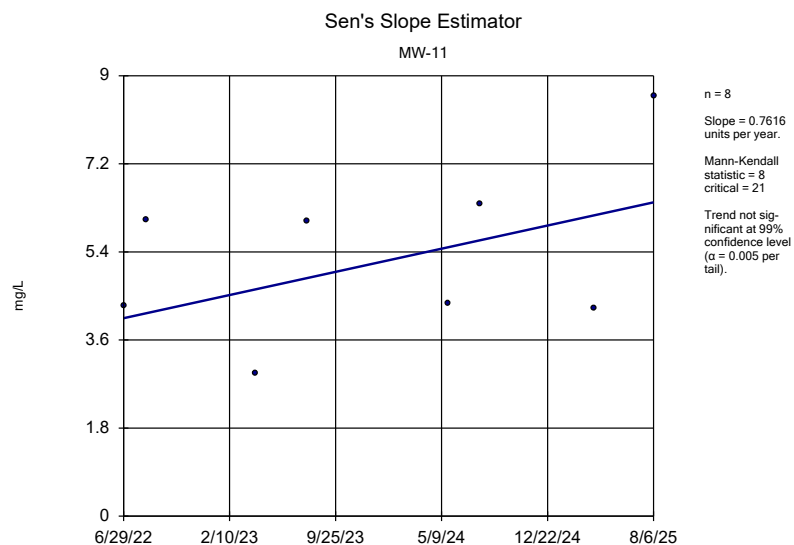


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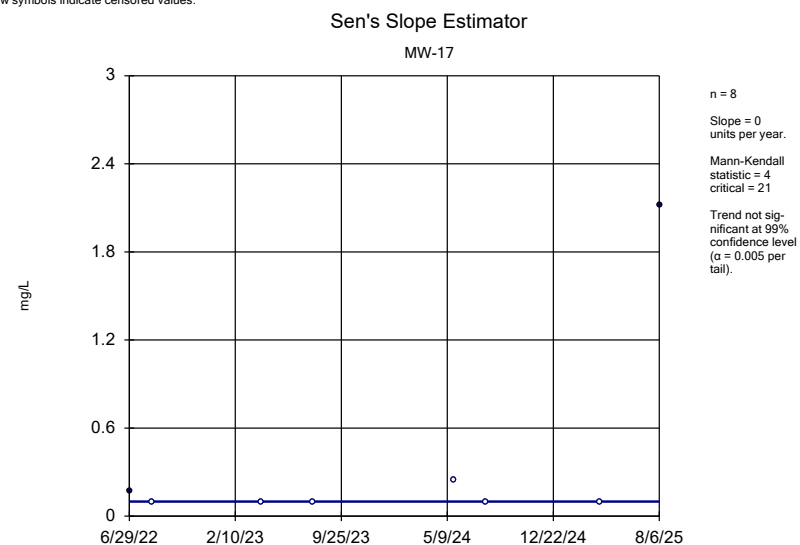


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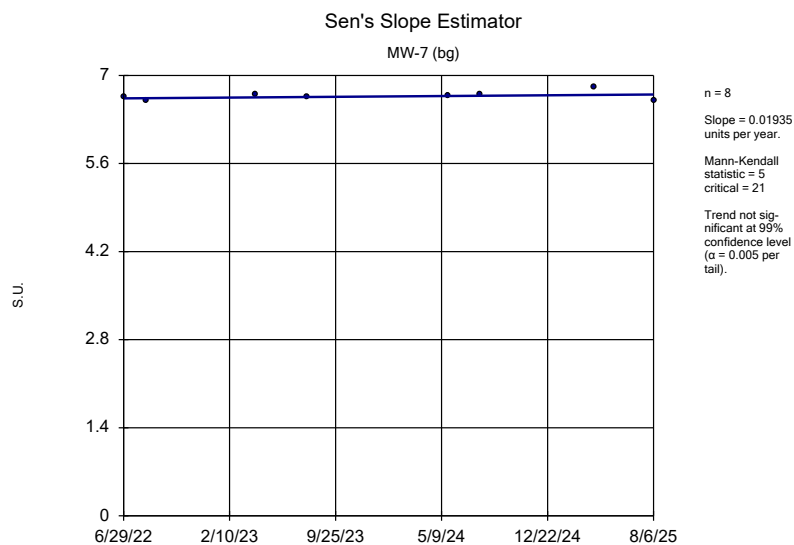




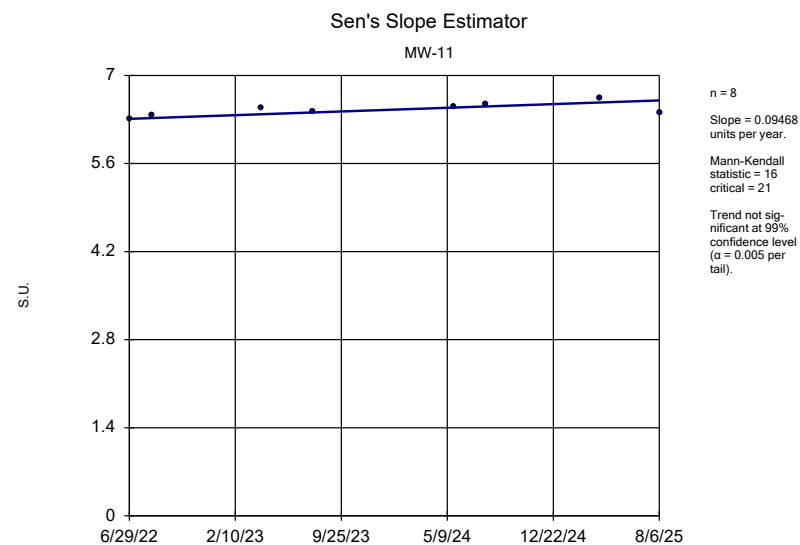
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Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY_AM_2025_AWQR RSTUDIO



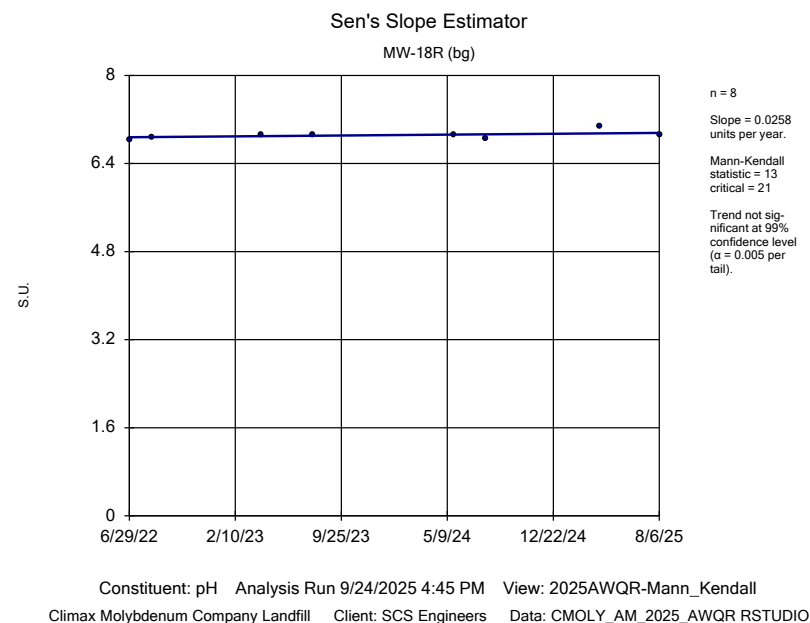
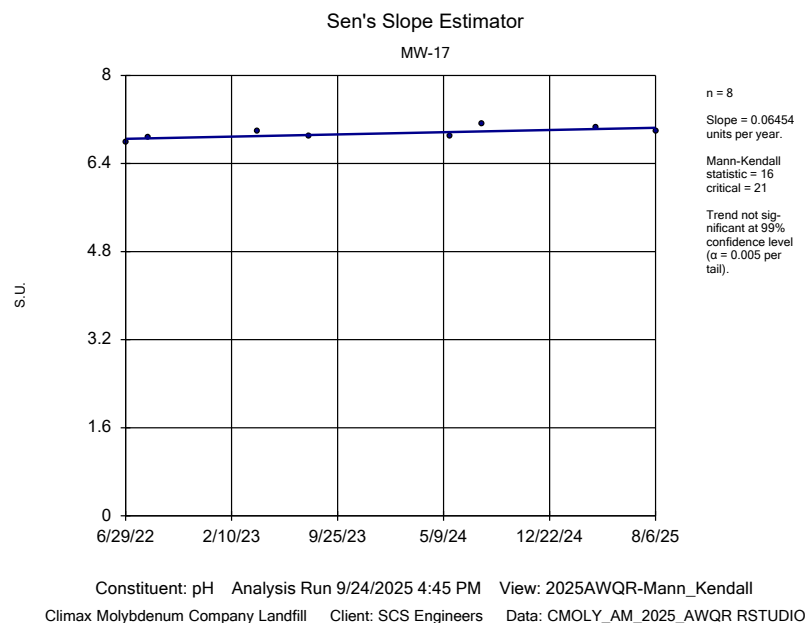
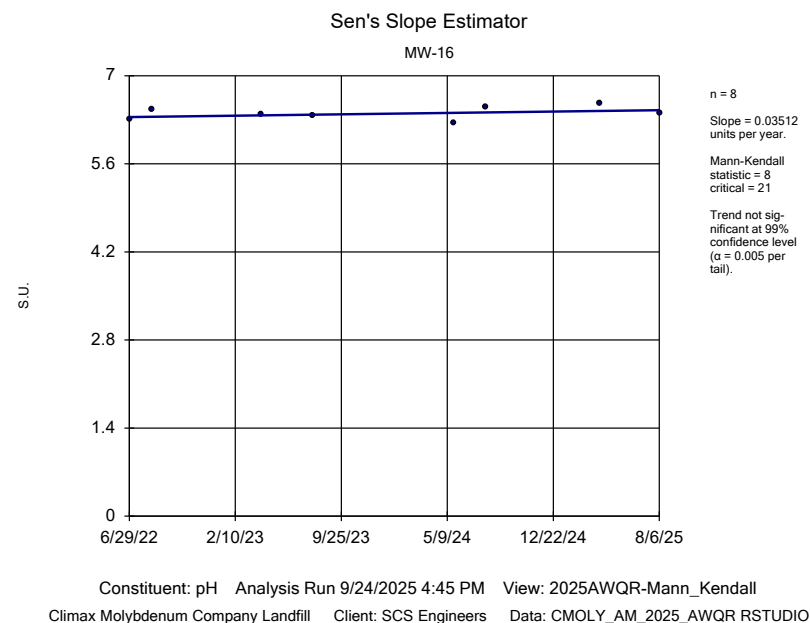
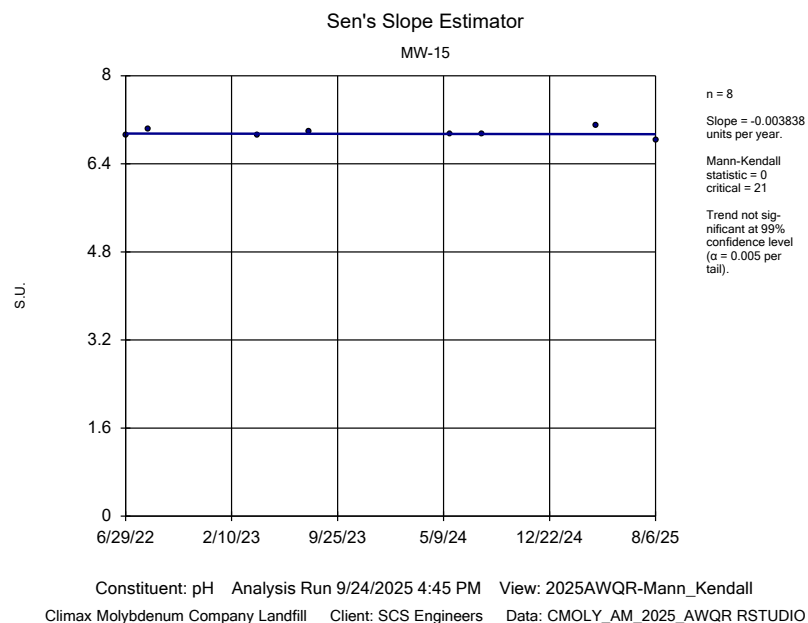
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Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY_AM_2025_AWQR RSTUDIO

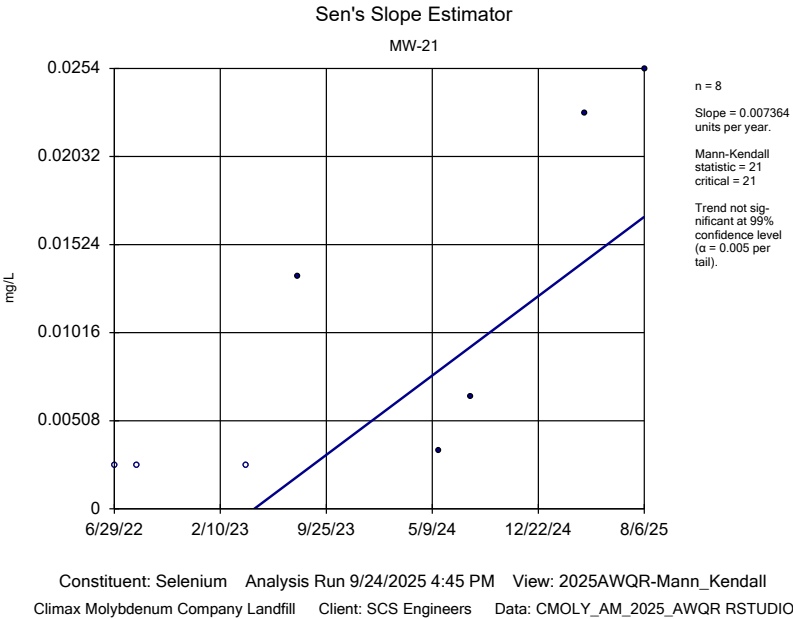
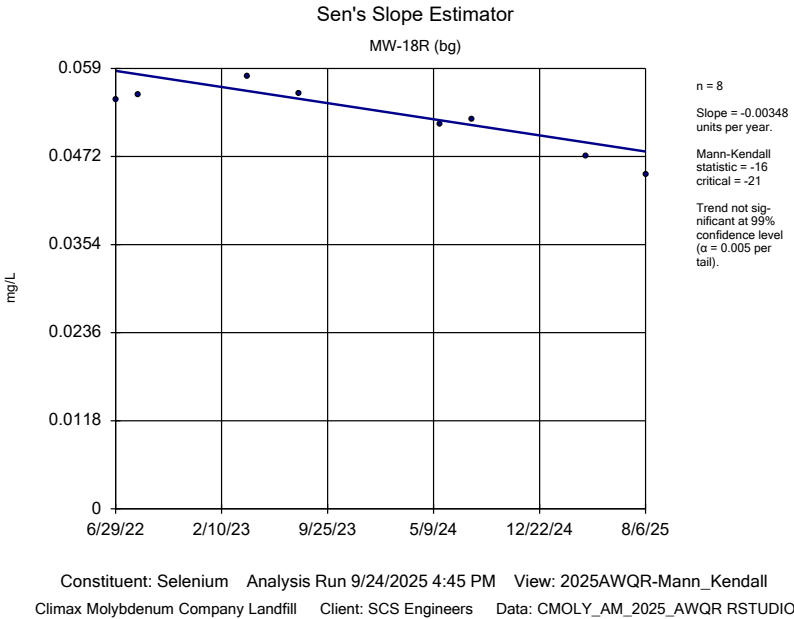
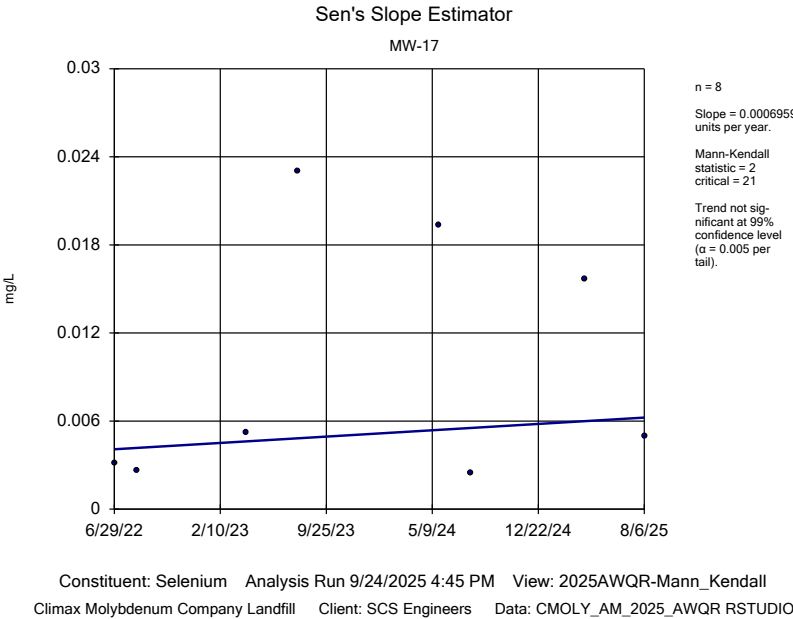
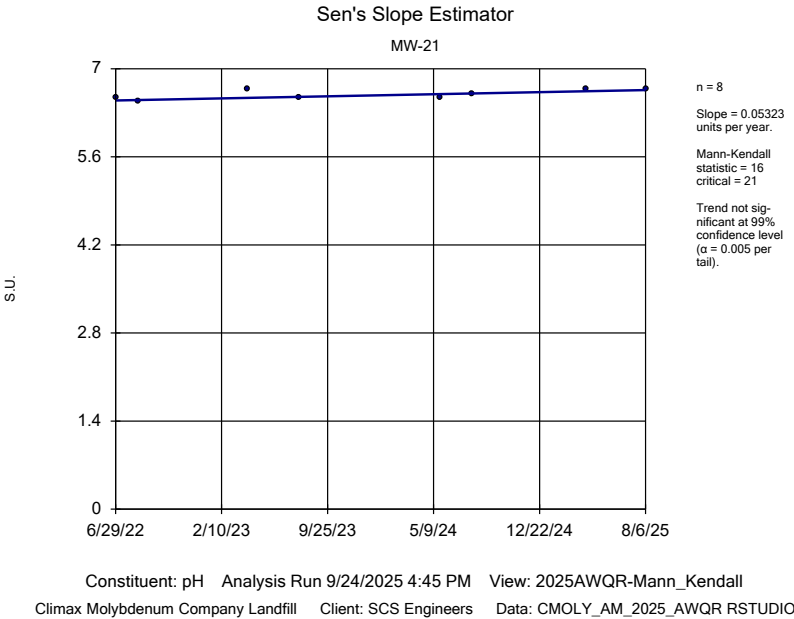


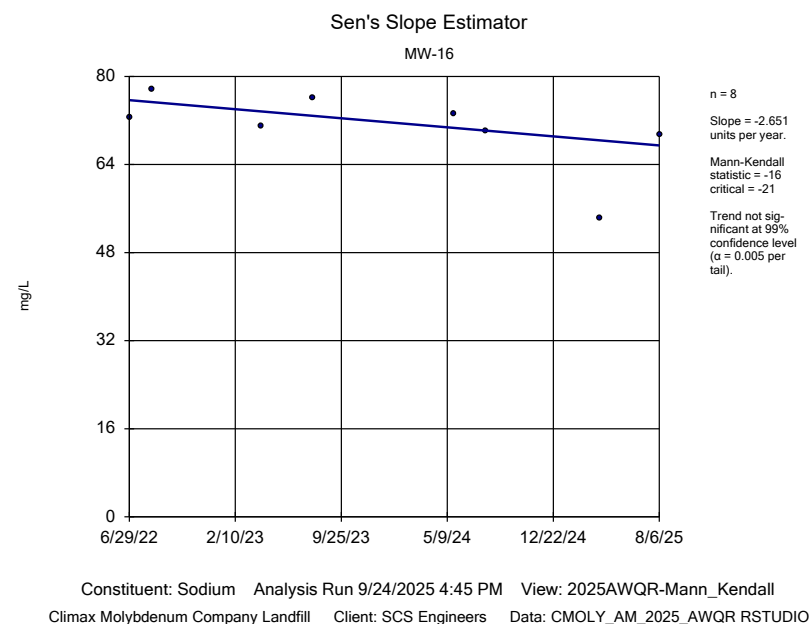
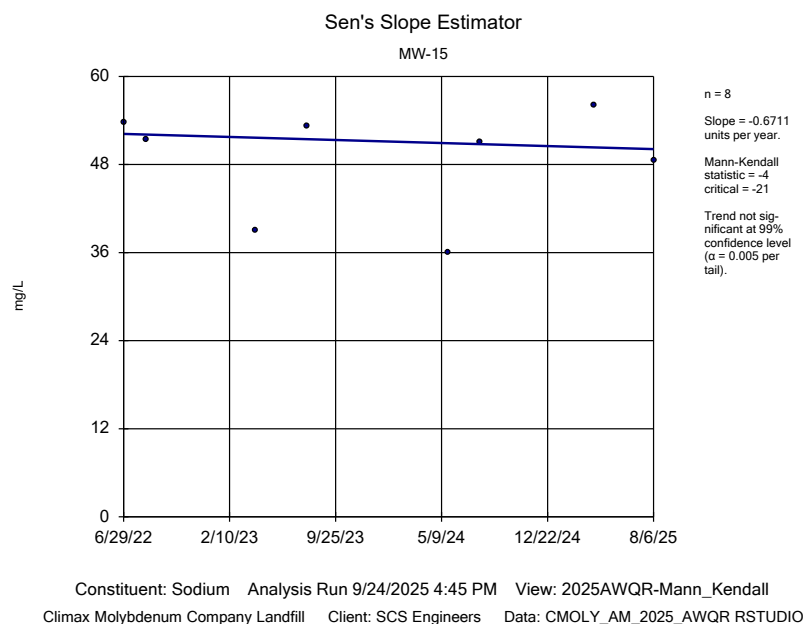
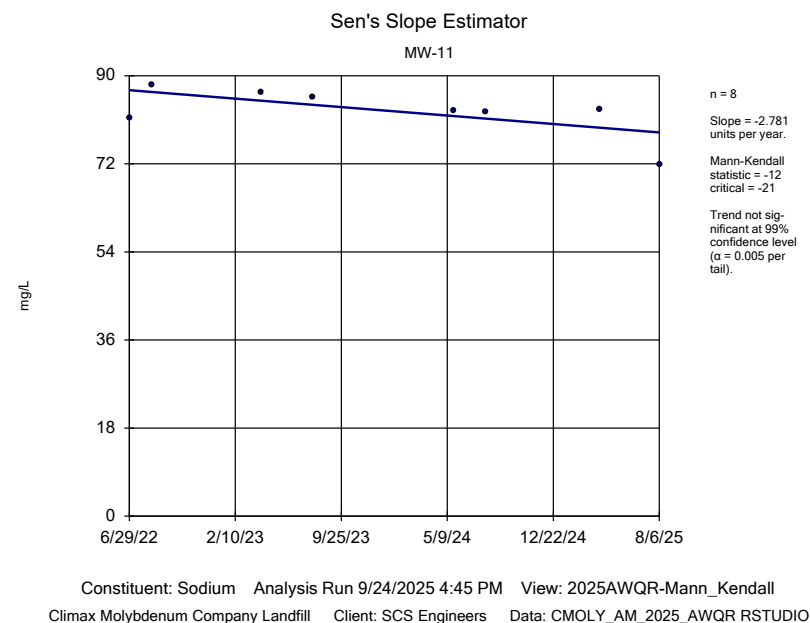
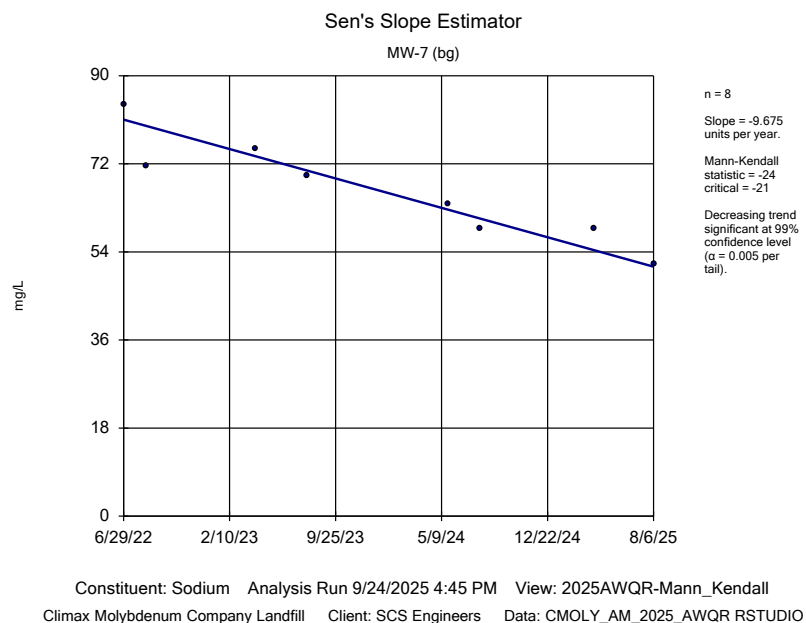
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Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY_AM_2025_AWQR RSTUDIO

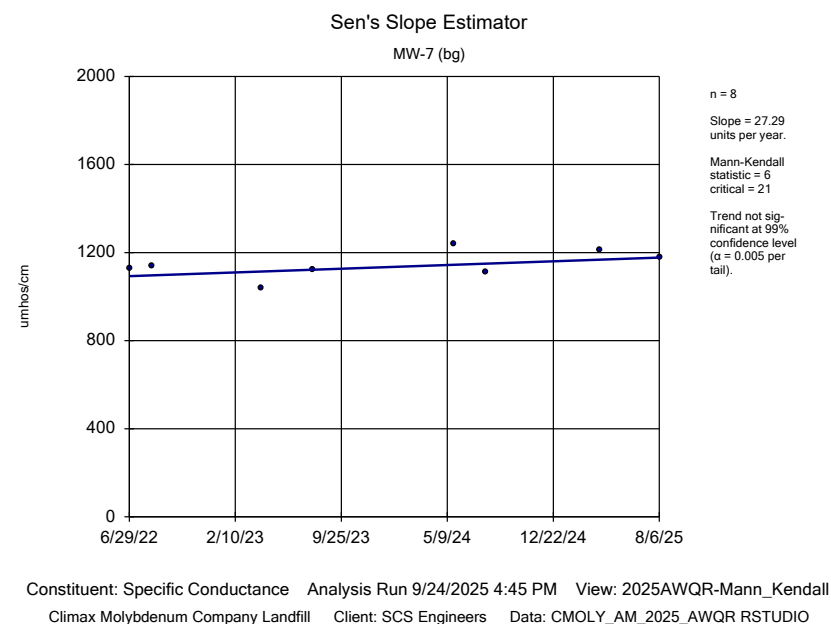
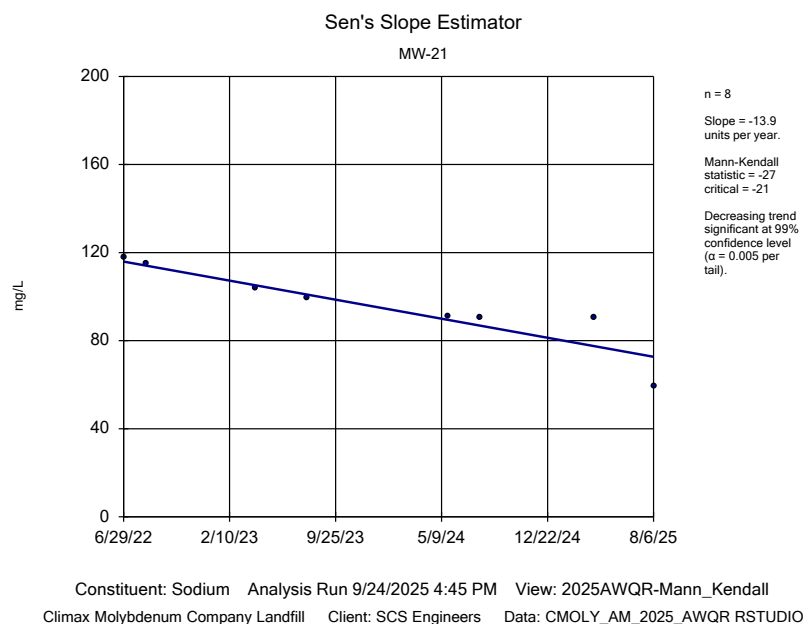
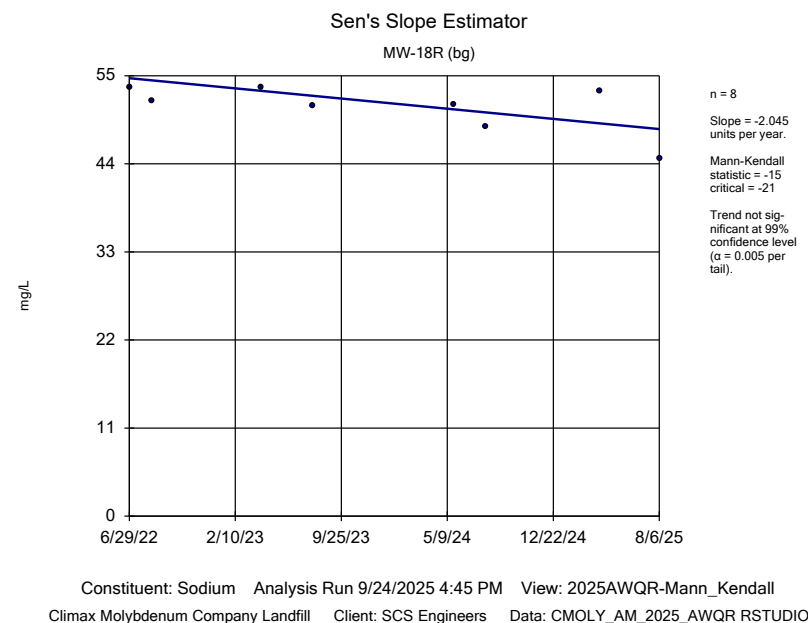
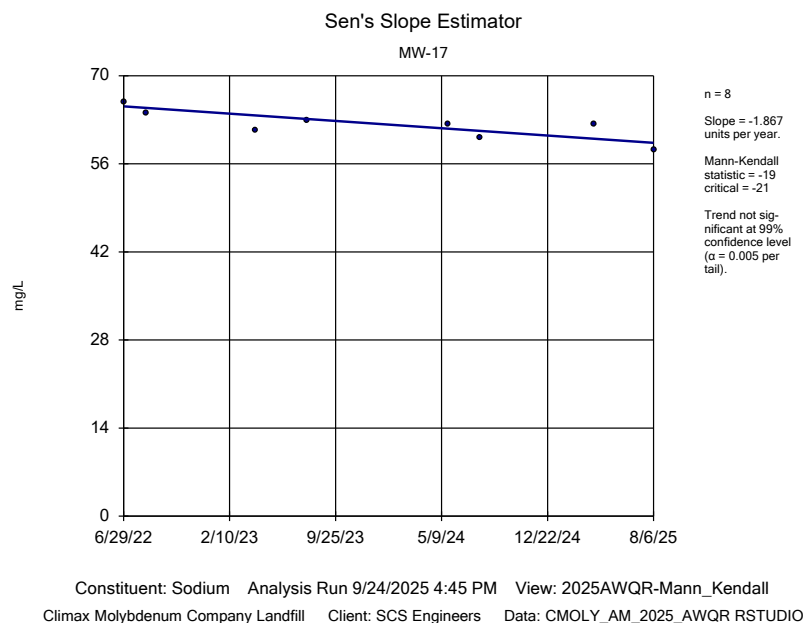


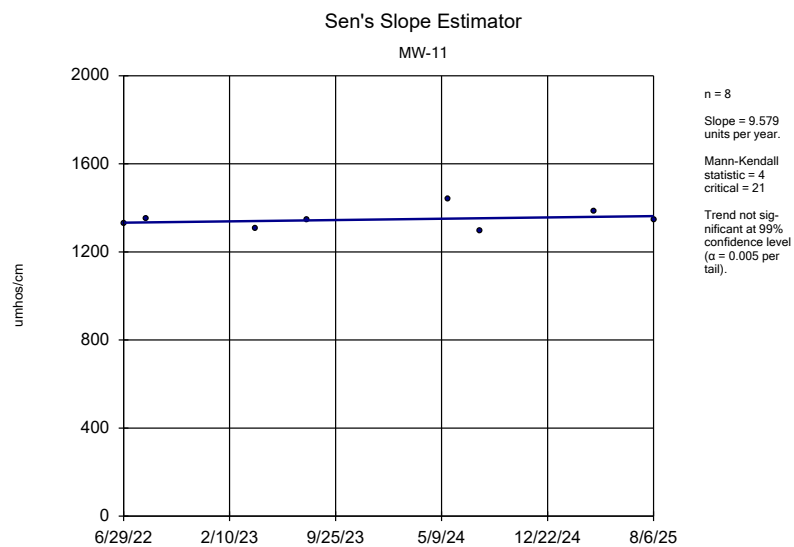
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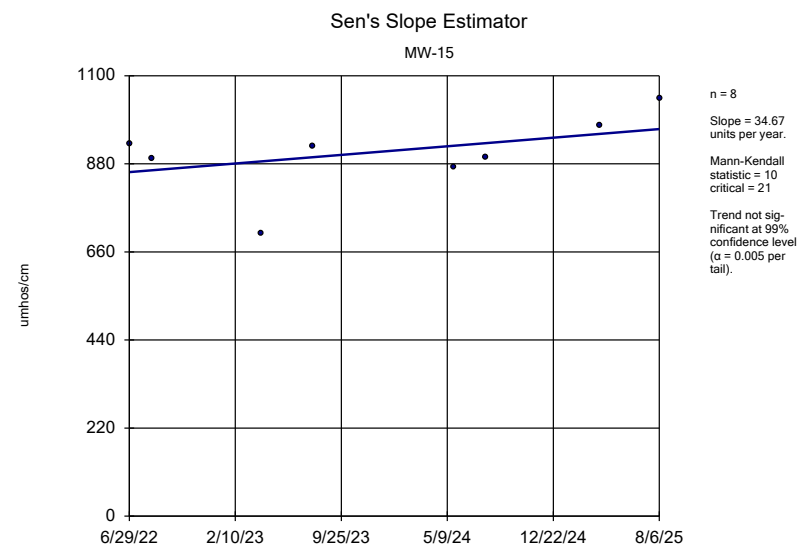




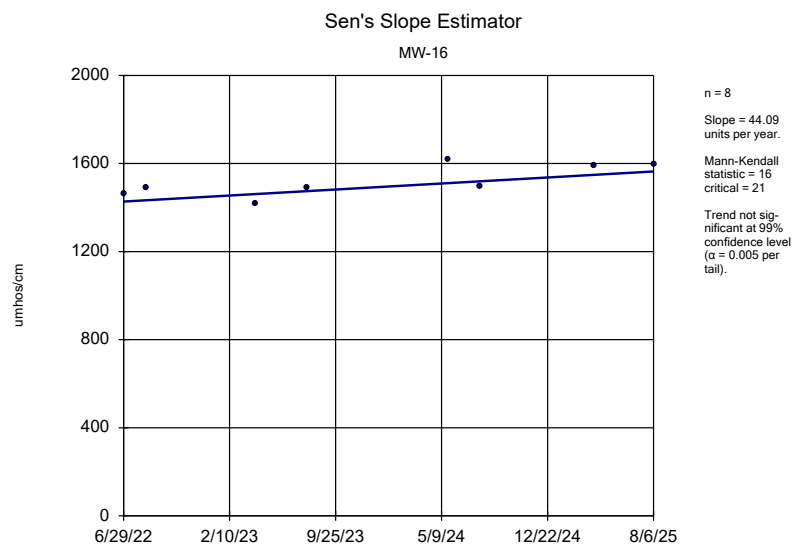




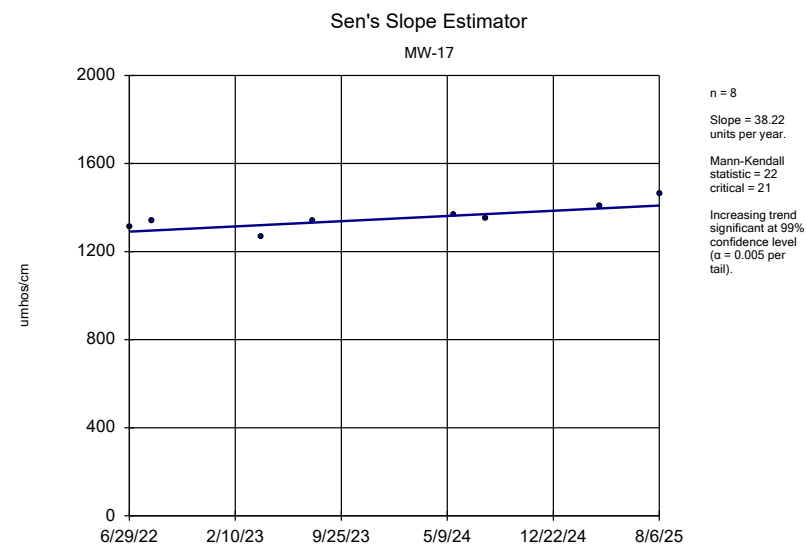
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Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY_AM_2025_AWQR RSTUDIO



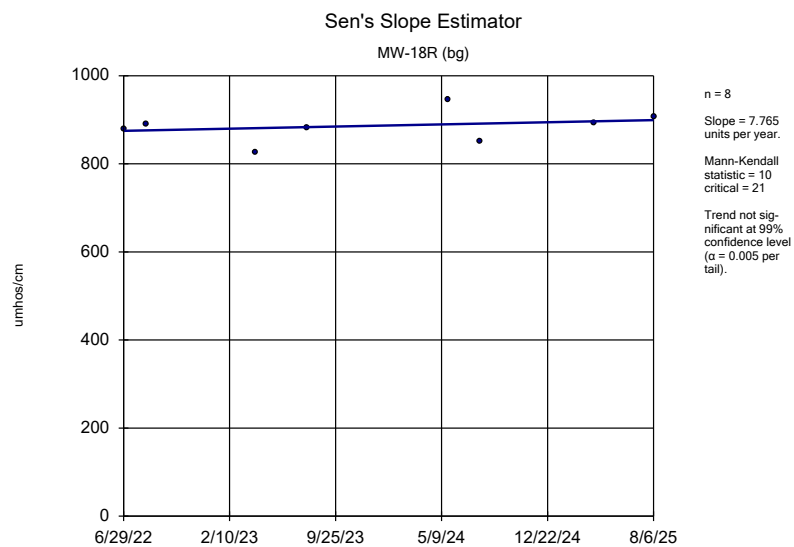
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Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY_AM_2025_AWQR RSTUDIO



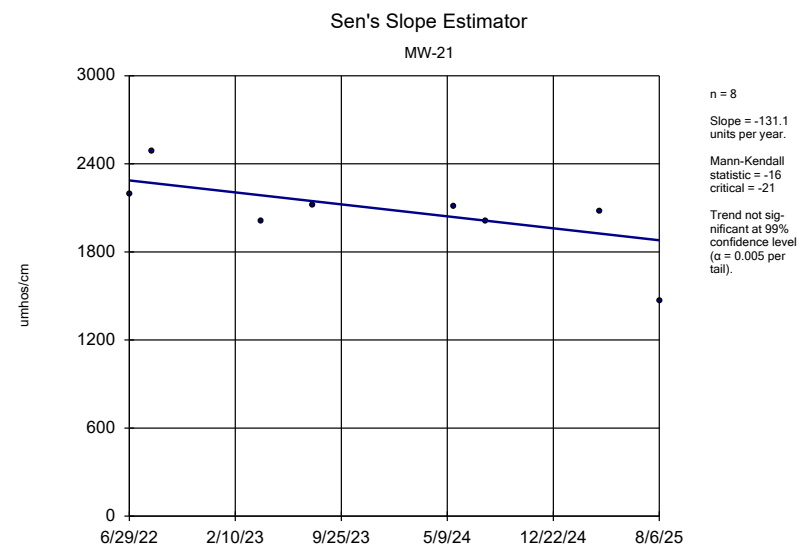
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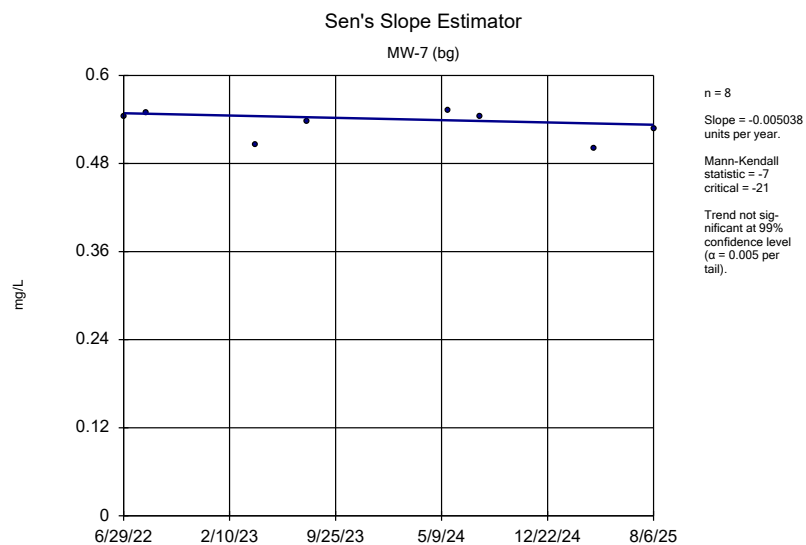
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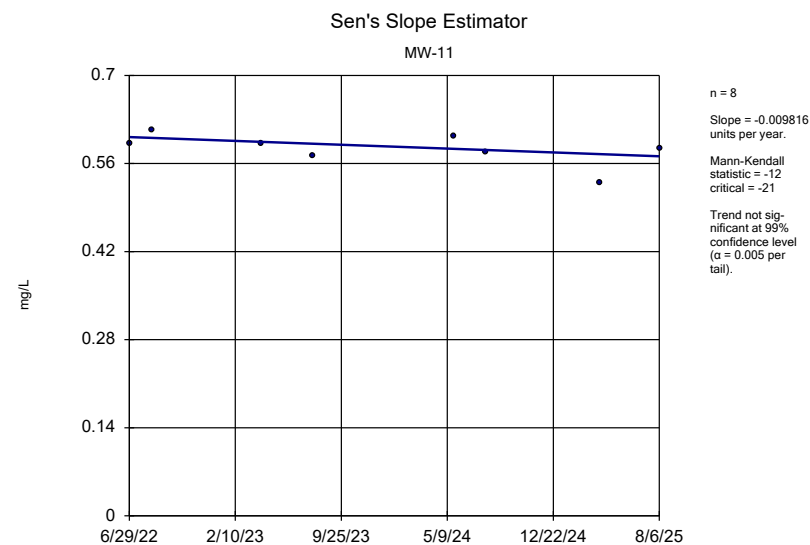
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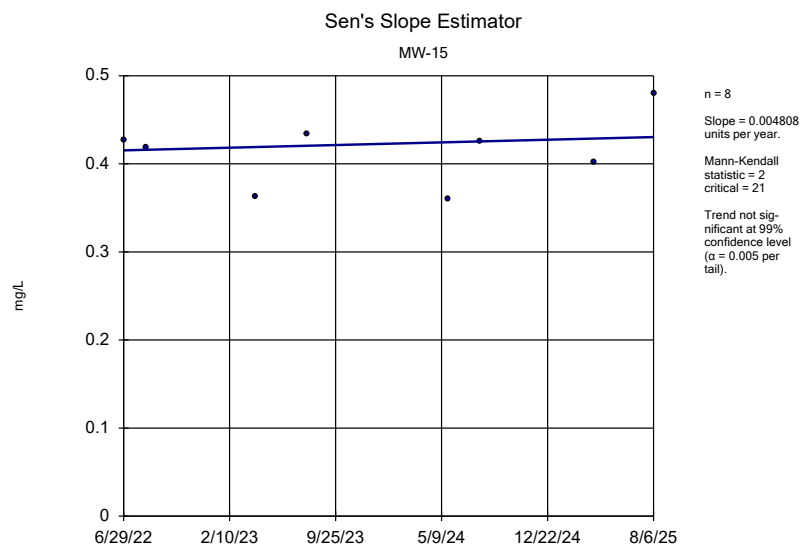
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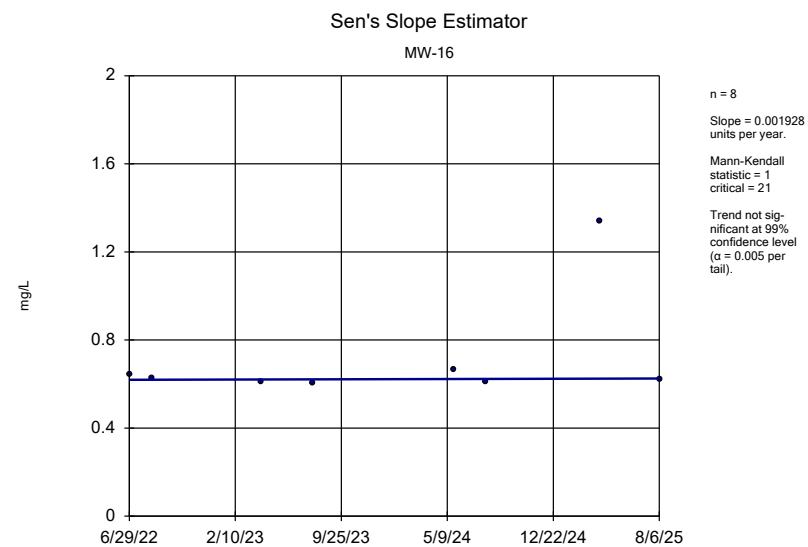
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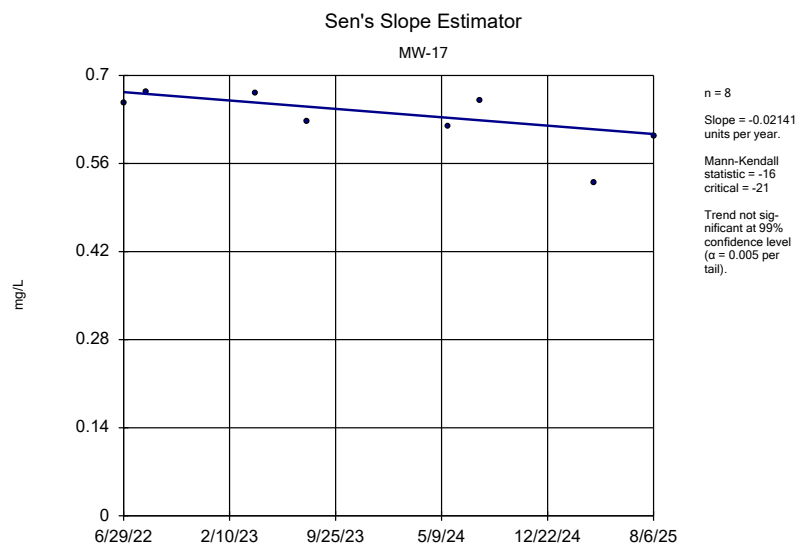
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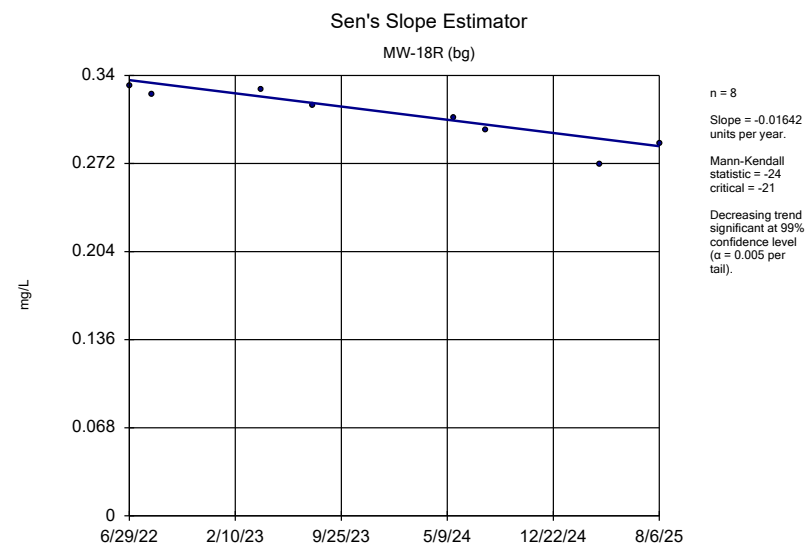
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Constituent: Strontium Analysis Run 9/24/2025 4:46 PM View: 2025AWQR-Mann_Kendall
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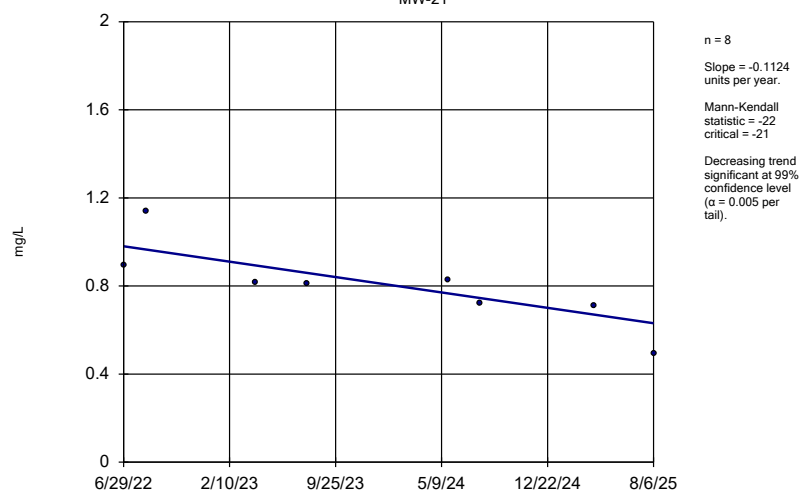
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Constituent: Strontium Analysis Run 9/24/2025 4:46 PM View: 2025AWQR-Mann_Kendall
Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY_AM_2025_AWQR RSTUDIO

Sen's Slope Estimator

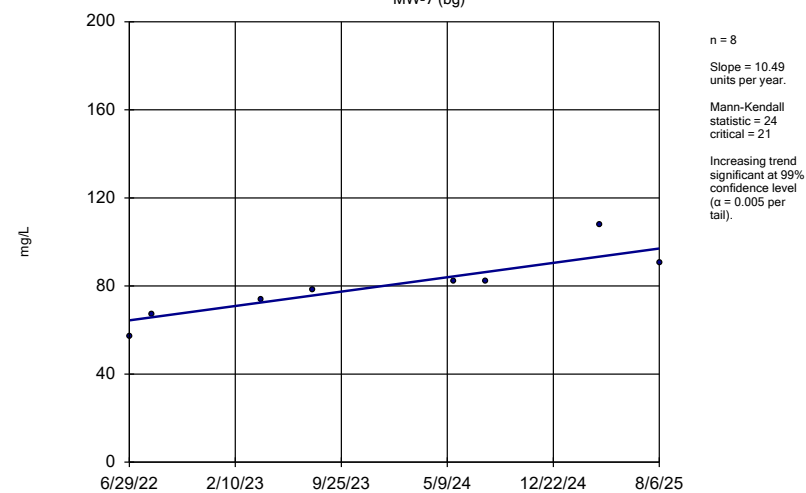
MW-21



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Sen's Slope Estimator

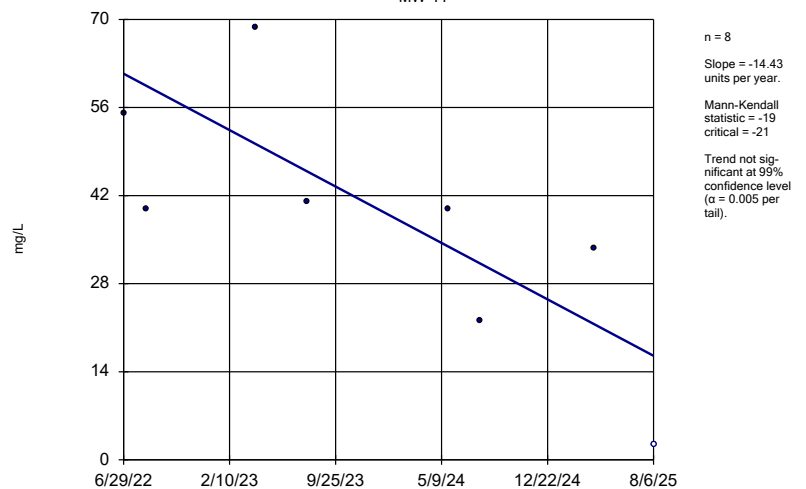
MW-7 (bg)



Constituent: Sulfate Analysis Run 9/24/2025 4:46 PM View: 2025AWQR-Mann_Kendall
Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY_AM_2025_AWQR RSTUDIO

Sen's Slope Estimator

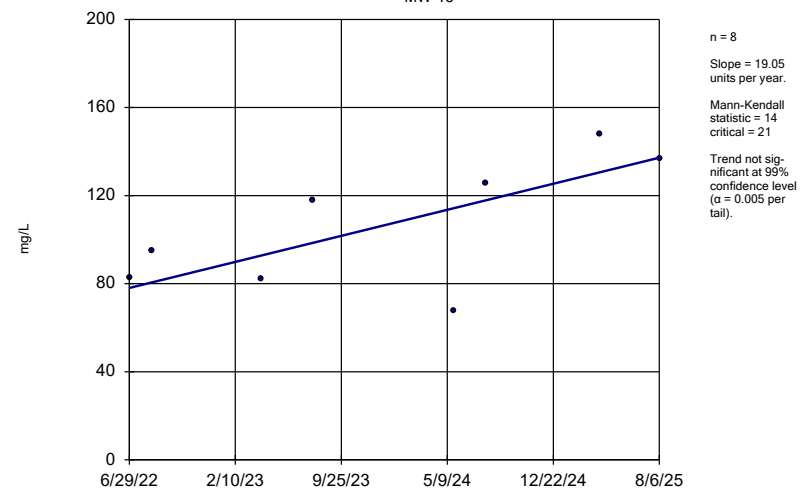
MW-11



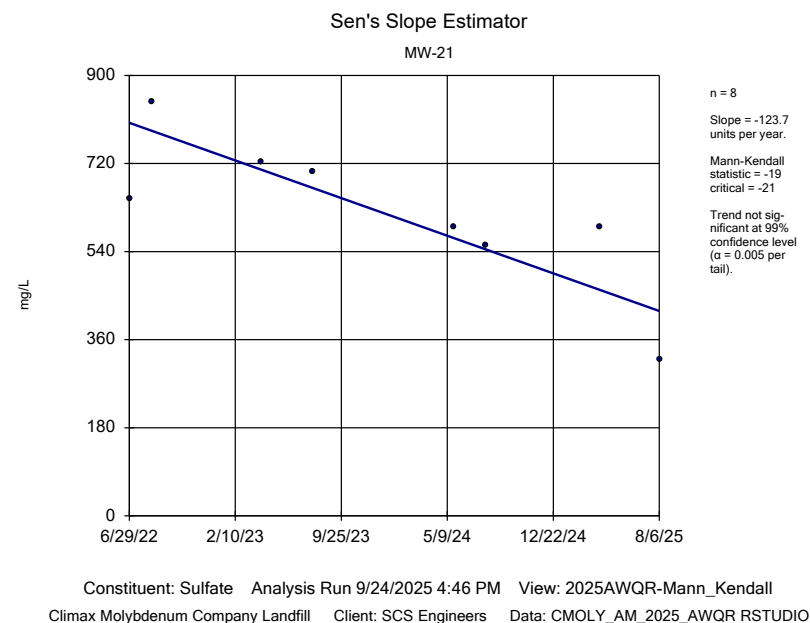
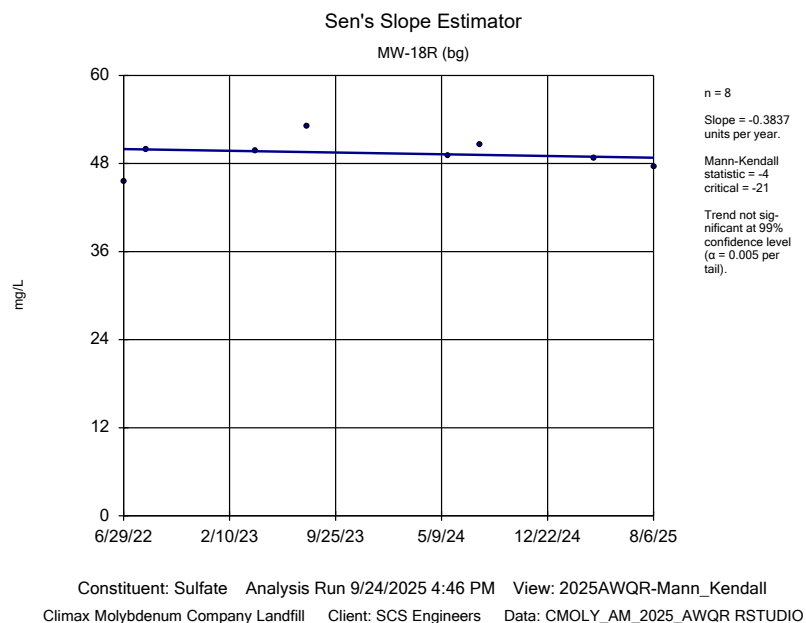
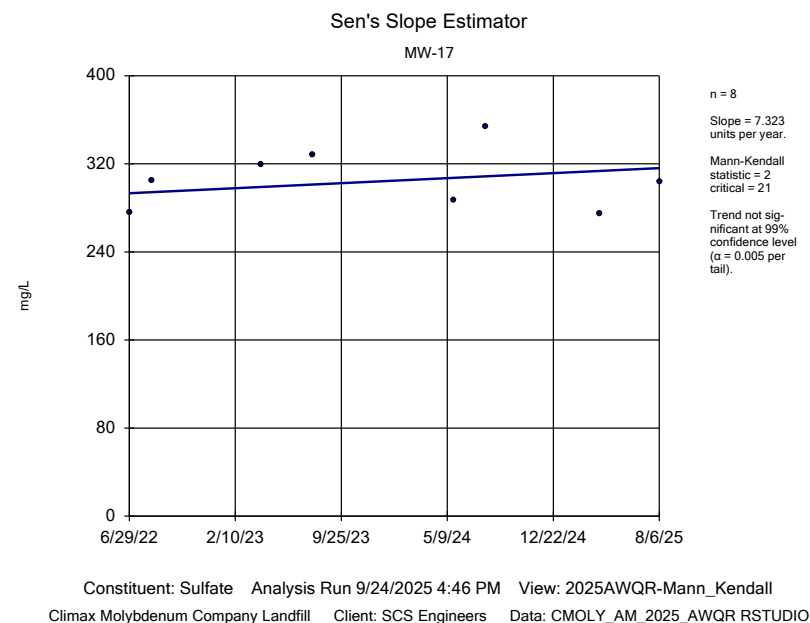
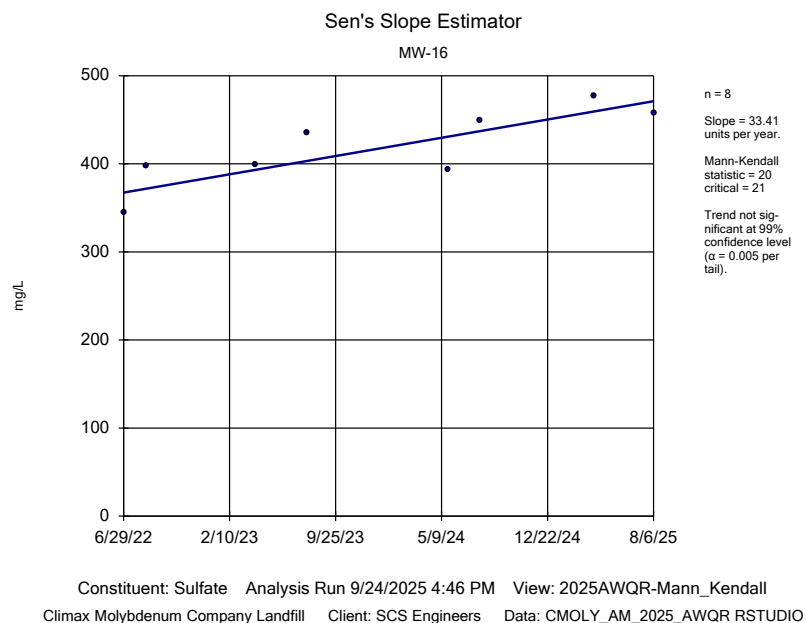
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Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY_AM_2025_AWQR RSTUDIO

Sen's Slope Estimator

MW-15



Constituent: Sulfate Analysis Run 9/24/2025 4:46 PM View: 2025AWQR-Mann_Kendall
Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY_AM_2025_AWQR RSTUDIO



Attachment B

Control Limits

Spring Control Limit

Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY Sanitas HMSP Printed 9/24/2025, 3:53 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Wells	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	MW-11	0.005845	n/a	4/1/2025	0.0127	Yes	43	MW-18R,MW-7	0.002189	0.001828	67.44	None	No	0.0007022	Param Inter 1 of 2
Chemical Oxygen Demand (mg/L)	MW-11	20.86	n/a	4/1/2025	169	Yes	128	MW-18R,MW-7	7.628	6.615	28.91	None	No	0.0007022	Param Inter 1 of 2
Chemical Oxygen Demand (mg/L)	MW-21	20.86	n/a	4/1/2025	5.29	No	128	MW-18R,MW-7	7.628	6.615	28.91	None	No	0.0007022	Param Inter 1 of 2
Chemical Oxygen Demand (mg/L)	TW-3	20.86	n/a	4/1/2025	8	No	128	MW-18R,MW-7	7.628	6.615	28.91	None	No	0.0007022	Param Inter 1 of 2
Chloride (mg/L)	MW-11	43.06	n/a	4/1/2025	20.7	No	134	MW-18R,MW-7	17.55	12.76	0.7463	None	No	0.0007022	Param Inter 1 of 2
Chloride (mg/L)	MW-15	43.06	n/a	4/1/2025	8.57	No	134	MW-18R,MW-7	17.55	12.76	0.7463	None	No	0.0007022	Param Inter 1 of 2
Chloride (mg/L)	MW-16	43.06	n/a	4/1/2025	7.94	No	134	MW-18R,MW-7	17.55	12.76	0.7463	None	No	0.0007022	Param Inter 1 of 2
Chloride (mg/L)	MW-17	43.06	n/a	4/1/2025	8.725	No	134	MW-18R,MW-7	17.55	12.76	0.7463	None	No	0.0007022	Param Inter 1 of 2
Chloride (mg/L)	MW-21	43.06	n/a	4/1/2025	72.6	Yes	134	MW-18R,MW-7	17.55	12.76	0.7463	None	No	0.0007022	Param Inter 1 of 2
Iron (mg/L)	MW-11	6.576	n/a	4/1/2025	42.6	Yes	44	MW-18R,MW-7	1.161	2.708	29.55	None	No	0.0007022	Param Inter 1 of 2
Iron (mg/L)	TW-3	6.576	n/a	4/1/2025	0.162	No	44	MW-18R,MW-7	1.161	2.708	29.55	None	No	0.0007022	Param Inter 1 of 2
Lithium (mg/L)	MW-15	0.03756	n/a	4/1/2025	0.0321	No	43	MW-18R,MW-7	0.02876	0.004403	0	None	No	0.0007022	Param Inter 1 of 2
Lithium (mg/L)	MW-16	0.03756	n/a	4/1/2025	0.136	Yes	43	MW-18R,MW-7	0.02876	0.004403	0	None	No	0.0007022	Param Inter 1 of 2
Lithium (mg/L)	MW-17	0.03756	n/a	4/1/2025	0.06465	Yes	43	MW-18R,MW-7	0.02876	0.004403	0	None	No	0.0007022	Param Inter 1 of 2
Lithium (mg/L)	MW-21	0.03756	n/a	4/1/2025	0.0269	No	43	MW-18R,MW-7	0.02876	0.004403	0	None	No	0.0007022	Param Inter 1 of 2
Lithium (mg/L)	TW-3	0.03756	n/a	4/1/2025	0.0274	No	43	MW-18R,MW-7	0.02876	0.004403	0	None	No	0.0007022	Param Inter 1 of 2
Manganese (mg/L)	MW-11	3.262	n/a	4/1/2025	4.4	Yes	43	MW-18R,MW-7	0.9696	1.146	34.88	None	No	0.0007022	Param Inter 1 of 2
Manganese (mg/L)	MW-16	3.262	n/a	4/1/2025	0.228	No	43	MW-18R,MW-7	0.9696	1.146	34.88	None	No	0.0007022	Param Inter 1 of 2
Manganese (mg/L)	MW-17	3.262	n/a	4/1/2025	0.272	No	43	MW-18R,MW-7	0.9696	1.146	34.88	None	No	0.0007022	Param Inter 1 of 2
Manganese (mg/L)	MW-21	3.262	n/a	4/1/2025	0.0165	No	43	MW-18R,MW-7	0.9696	1.146	34.88	None	No	0.0007022	Param Inter 1 of 2
Molybdenum (mg/L)	MW-16	0.02889	n/a	4/1/2025	0.00277	No	44	MW-18R,MW-7	0.008179	0.01036	47.73	None	No	0.0007022	Param Inter 1 of 2
Molybdenum (mg/L)	TW-3	0.02889	n/a	4/1/2025	0.00222	No	44	MW-18R,MW-7	0.008179	0.01036	47.73	None	No	0.0007022	Param Inter 1 of 2
Nitrogen, Ammonia (mg/L)	MW-11	0.307	n/a	4/1/2025	4.25	Yes	134	MW-18R,MW-7	0.09267	0.1072	61.19	None	No	0.0007022	Param Inter 1 of 2
pH (S.U.)	MW-11	7.454	6.438	4/1/2025	6.63	No	133	MW-18R,MW-7	6.946	0.254	0	None	No	0.0003511	Param Inter 1 of 2
pH (S.U.)	MW-15	7.454	6.438	4/1/2025	7.1	No	133	MW-18R,MW-7	6.946	0.254	0	None	No	0.0003511	Param Inter 1 of 2
pH (S.U.)	MW-16	7.454	6.438	4/1/2025	6.56	No	133	MW-18R,MW-7	6.946	0.254	0	None	No	0.0003511	Param Inter 1 of 2
pH (S.U.)	MW-17	7.454	6.438	4/1/2025	7.05	No	133	MW-18R,MW-7	6.946	0.254	0	None	No	0.0003511	Param Inter 1 of 2
pH (S.U.)	MW-21	7.454	6.438	4/1/2025	6.67	No	133	MW-18R,MW-7	6.946	0.254	0	None	No	0.0003511	Param Inter 1 of 2
pH (S.U.)	TW-3	7.454	6.438	4/1/2025	7.25	No	133	MW-18R,MW-7	6.946	0.254	0	None	No	0.0003511	Param Inter 1 of 2
Selenium (mg/L)	MW-17	0.1003	n/a	4/1/2025	0.01565	No	44	MW-18R,MW-7	0.03297	0.03366	40.91	None	No	0.0007022	Param Inter 1 of 2
Selenium (mg/L)	MW-21	0.1003	n/a	4/1/2025	0.0228	No	44	MW-18R,MW-7	0.03297	0.03366	40.91	None	No	0.0007022	Param Inter 1 of 2
Selenium (mg/L)	TW-3	0.1003	n/a	4/1/2025	0.00902	No	44	MW-18R,MW-7	0.03297	0.03366	40.91	None	No	0.0007022	Param Inter 1 of 2
Sodium (mg/L)	MW-11	76.41	n/a	4/1/2025	83	Yes	44	MW-18R,MW-7	57.3	9.553	0	None	No	0.0007022	Param Inter 1 of 2
Sodium (mg/L)	MW-15	76.41	n/a	4/1/2025	56	No	44	MW-18R,MW-7	57.3	9.553	0	None	No	0.0007022	Param Inter 1 of 2
Sodium (mg/L)	MW-16	76.41	n/a	4/1/2025	54.3	No	44	MW-18R,MW-7	57.3	9.553	0	None	No	0.0007022	Param Inter 1 of 2
Sodium (mg/L)	MW-17	76.41	n/a	4/1/2025	62.35	No	44	MW-18R,MW-7	57.3	9.553	0	None	No	0.0007022	Param Inter 1 of 2
Sodium (mg/L)	MW-21	76.41	n/a	4/1/2025	90.8	Yes	44	MW-18R,MW-7	57.3	9.553	0	None	No	0.0007022	Param Inter 1 of 2
Sodium (mg/L)	TW-3	76.41	n/a	4/1/2025	62.2	No	44	MW-18R,MW-7	57.3	9.553	0	None	No	0.0007022	Param Inter 1 of 2
Specific Conductance (umhos/cm)	MW-11	1422	n/a	4/1/2025	1386	No	133	MW-18R,MW-7	1023	199.6	0	None	No	0.0007022	Param Inter 1 of 2
Specific Conductance (umhos/cm)	MW-15	1422	n/a	4/1/2025	975.9	No	133	MW-18R,MW-7	1023	199.6	0	None	No	0.0007022	Param Inter 1 of 2
Specific Conductance (umhos/cm)	MW-16	1422	n/a	4/1/2025	1591	Yes	133	MW-18R,MW-7	1023	199.6	0	None	No	0.0007022	Param Inter 1 of 2
Specific Conductance (umhos/cm)	MW-17	1422	n/a	4/1/2025	1404	No	133	MW-18R,MW-7	1023	199.6	0	None	No	0.0007022	Param Inter 1 of 2
Specific Conductance (umhos/cm)	MW-21	1422	n/a	4/1/2025	2075	Yes	133	MW-18R,MW-7	1023	199.6	0	None	No	0.0007022	Param Inter 1 of 2
Specific Conductance (umhos/cm)	TW-3	1422	n/a	4/1/2025	865.7	No	133	MW-18R,MW-7	1023	199.6	0	None	No	0.0007022	Param Inter 1 of 2
Strontium (mg/L)	MW-11	0.7767	n/a	4/1/2025	0.53	No	43	MW-18R,MW-7	0.4603	0.1582	0	None	No	0.0007022	Param Inter 1 of 2
Strontium (mg/L)	MW-15	0.7767	n/a	4/1/2025	0.402	No	43	MW-18R,MW-7	0.4603	0.1582	0	None	No	0.0007022	Param Inter 1 of 2
Strontium (mg/L)	MW-16	0.7767	n/a	4/1/2025	1.34	Yes	43	MW-18R,MW-7	0.4603	0.1582	0	None	No	0.0007022	Param Inter 1 of 2
Strontium (mg/L)	MW-17	0.7767	n/a	4/1/2025	0.53	No	43	MW-18R,MW-7	0.4603	0.1582	0	None	No	0.0007022	Param Inter 1 of 2
Strontium (mg/L)	MW-21	0.7767	n/a	4/1/2025	0.713	No	43	MW-18R,MW-7	0.4603	0.1582	0	None	No	0.0007022	Param Inter 1 of 2
Strontium (mg/L)	TW-3	0.7767	n/a	4/1/2025	0.311	No	43	MW-18R,MW-7	0.4603	0.1582	0	None	No	0.0007022	Param Inter 1 of 2

Spring Control Limit

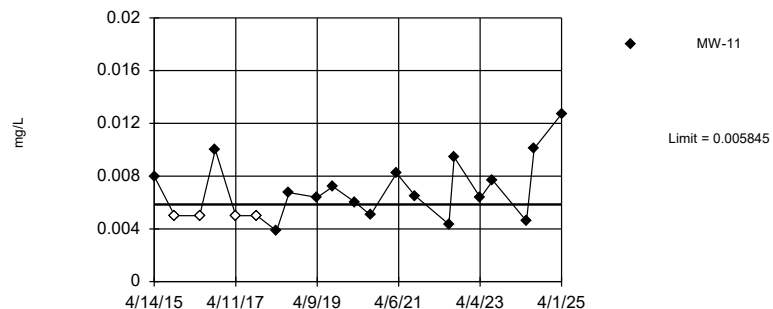
Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY Sanitas HMSP Printed 9/24/2025, 3:53 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim. Lower Lim. 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>
Sulfate (mg/L)	MW-11	224	n/a	4/1/2025	33.6	No	128	MW-18R,MW-7	66.28	78.85	0	None	No	0.0007022	Param Inter 1 of 2
Sulfate (mg/L)	MW-15	224	n/a	4/1/2025	148	No	128	MW-18R,MW-7	66.28	78.85	0	None	No	0.0007022	Param Inter 1 of 2
Sulfate (mg/L)	MW-16	224	n/a	4/1/2025	477	Yes	128	MW-18R,MW-7	66.28	78.85	0	None	No	0.0007022	Param Inter 1 of 2
Sulfate (mg/L)	MW-17	224	n/a	4/1/2025	274.5	Yes	128	MW-18R,MW-7	66.28	78.85	0	None	No	0.0007022	Param Inter 1 of 2
Sulfate (mg/L)	MW-21	224	n/a	4/1/2025	590	Yes	128	MW-18R,MW-7	66.28	78.85	0	None	No	0.0007022	Param Inter 1 of 2
Sulfate (mg/L)	TW-3	224	n/a	4/1/2025	58.3	No	128	MW-18R,MW-7	66.28	78.85	0	None	No	0.0007022	Param Inter 1 of 2

Exceeds Limit: MW-11

Prediction Limit

Interwell Parametric



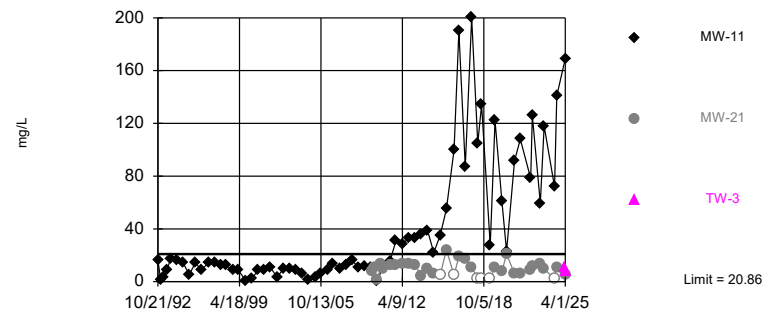
Background Data Summary: Mean=0.002189, Std. Dev.=0.001828, n=43, 67.44% NDs (user selected parametric test despite non-detects). Normality test was disabled. Assumes 4 future values. Kappa overridden to 2.

Constituent: Arsenic Analysis Run 9/24/2025 3:51 PM View: 2025AWQR-Control_Limit-Spring
Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY Sanitas HMSP

Exceeds Limit: MW-11

Prediction Limit

Interwell Parametric



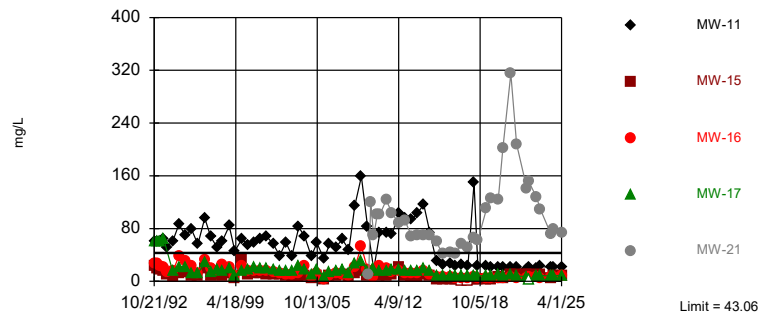
Background Data Summary: Mean=7.628, Std. Dev.=6.615, n=128, 28.91% NDs. Normality test was disabled. Comparing 3 points to limit. Assumes 2 future values. Kappa overridden to 2.

Constituent: Chemical Oxygen Demand Analysis Run 9/24/2025 3:51 PM View: 2025AWQR-Control_Limit
Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY Sanitas HMSP

Exceeds Limit: MW-21

Prediction Limit

Interwell Parametric



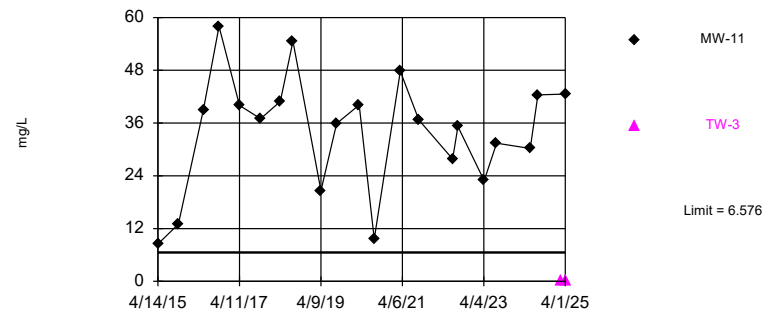
Background Data Summary: Mean=17.55, Std. Dev.=12.76, n=134, 0.7463% NDs. Normality test was disabled. Comparing 5 points to limit. Kappa overridden to 2.

Constituent: Chloride Analysis Run 9/24/2025 3:51 PM View: 2025AWQR-Control_Limit-Spring
Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY Sanitas HMSP

Exceeds Limit: MW-11

Prediction Limit

Interwell Parametric



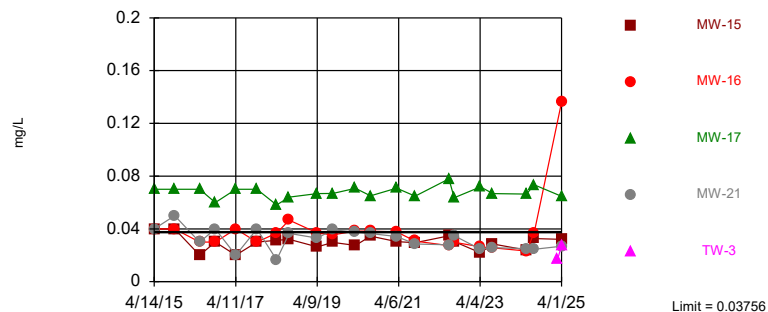
Background Data Summary: Mean=1.161, Std. Dev.=2.708, n=44, 29.55% NDs. Normality test was disabled. Comparing 2 points to limit. Assumes 3 future values. Kappa overridden to 2.

Constituent: Iron Analysis Run 9/24/2025 3:51 PM View: 2025AWQR-Control_Limit-Spring
Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY Sanitas HMSP

Exceeds Limit: MW-16, MW-17

Prediction Limit

Interwell Parametric



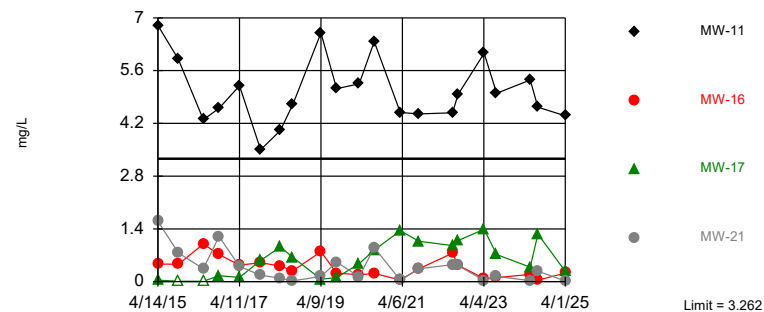
Background Data Summary: Mean=0.02876, Std. Dev.=0.004403, n=43. Normality test was disabled. Comparing 5 points to limit. Kappa overridden to 2.

Constituent: Lithium Analysis Run 9/24/2025 3:52 PM View: 2025AWQR-Control_Limit-Spring
Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY Sanitas HMSP

Exceeds Limit: MW-11

Prediction Limit

Interwell Parametric



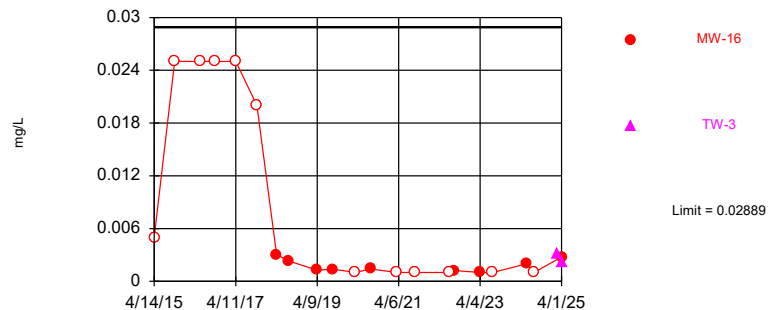
Background Data Summary: Mean=0.9696, Std. Dev.=1.146, n=43, 34.88% NDs. Normality test was disabled. Comparing 4 points to limit. Assumes 1 future value. Kappa overridden to 2.

Constituent: Manganese Analysis Run 9/24/2025 3:52 PM View: 2025AWQR-Control_Limit-Spring
Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY Sanitas HMSP

Within Limit

Prediction Limit

Interwell Parametric



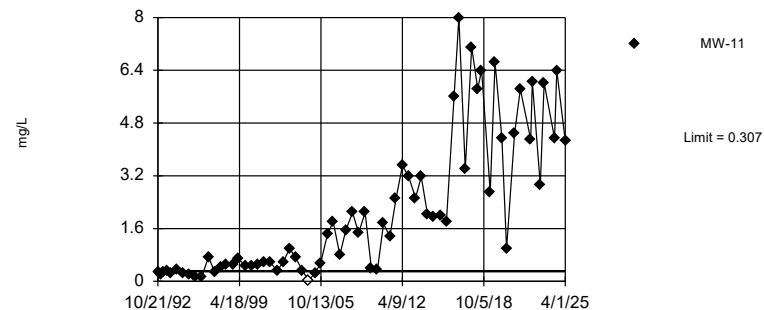
Background Data Summary: Mean=0.008179, Std. Dev.=0.01036, n=44, 47.73% NDs. Normality test was disabled. Comparing 2 points to limit. Assumes 3 future values. Kappa overridden to 2.

Constituent: Molybdenum Analysis Run 9/24/2025 3:52 PM View: 2025AWQR-Control_Limit-Spring
Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY Sanitas HMSP

Exceeds Limit: MW-11

Prediction Limit

Interwell Parametric



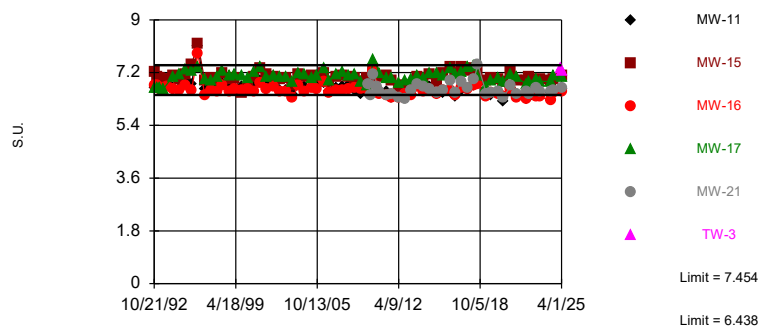
Background Data Summary: Mean=0.09267, Std. Dev.=0.1072, n=134, 61.19% NDs (user selected parametric test despite non-detects). Normality test was disabled. Assumes 4 future values. Kappa overridden to 2.

Constituent: Nitrogen, Ammonia Analysis Run 9/24/2025 3:52 PM View: 2025AWQR-Control_Limit-Spring
Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY Sanitas HMSP

Within Limits

Prediction Limit

Interwell Parametric



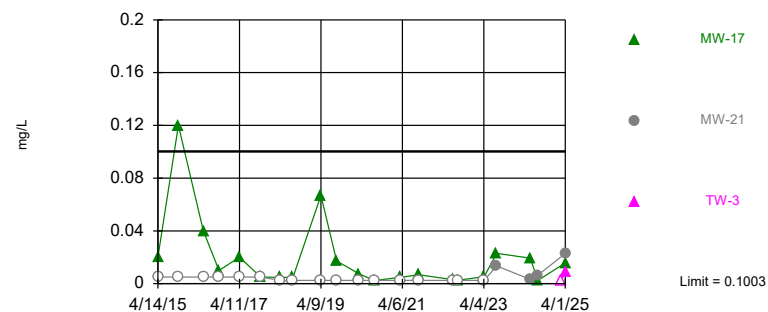
Background Data Summary: Mean=6.946, Std. Dev.=0.254, n=133. Normality test was disabled. Comparing 6 points to limit. Kappa overridden to 2.

Constituent: pH Analysis Run 9/24/2025 3:52 PM View: 2025AWQR-Control_Limit-Spring
Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY Sanitas HMSP

Within Limit

Prediction Limit

Interwell Parametric



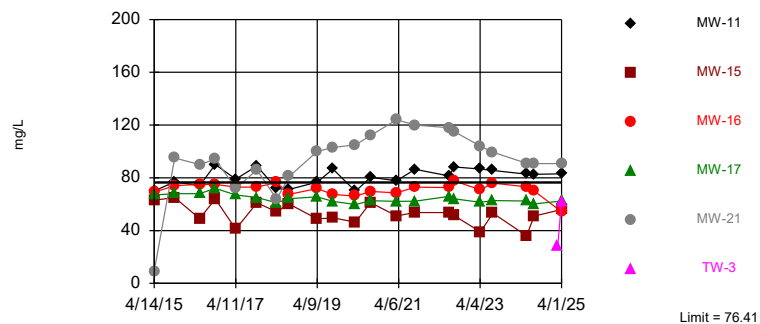
Background Data Summary: Mean=0.03297, Std. Dev.=0.03366, n=44, 40.91% NDs. Normality test was disabled. Comparing 3 points to limit. Assumes 2 future values. Kappa overridden to 2.

Constituent: Selenite Analysis Run 9/24/2025 3:52 PM View: 2025AWQR-Control_Limit-Spring
Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY Sanitas HMSP

Exceeds Limit: MW-11, MW-21

Prediction Limit

Interwell Parametric



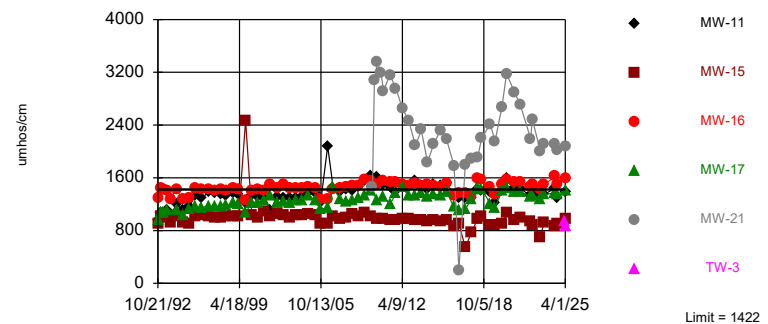
Background Data Summary: Mean=57.3, Std. Dev.=9.553, n=44. Normality test was disabled. Comparing 6 points to limit. Kappa overridden to 2.

Constituent: Sodium Analysis Run 9/24/2025 3:52 PM View: 2025AWQR-Control_Limit-Spring
Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY Sanitas HMSP

Exceeds Limit: MW-16, MW-21

Prediction Limit

Interwell Parametric



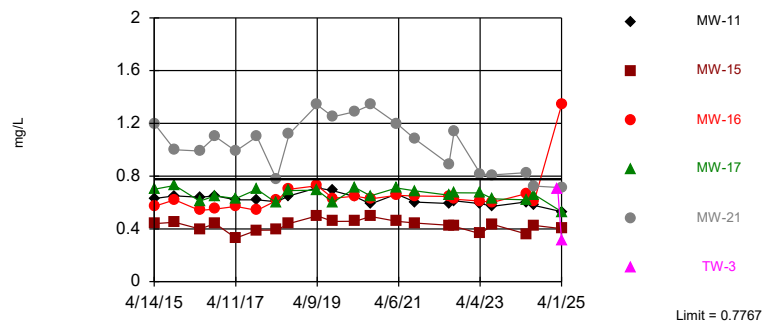
Background Data Summary: Mean=1023, Std. Dev.=199.6, n=133. Normality test was disabled. Comparing 6 points to limit. Kappa overridden to 2.

Constituent: Specific Conductance Analysis Run 9/24/2025 3:52 PM View: 2025AWQR-Control_Limit-Spring
Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY Sanitas HMSP

Exceeds Limit: MW-16

Prediction Limit

Interwell Parametric



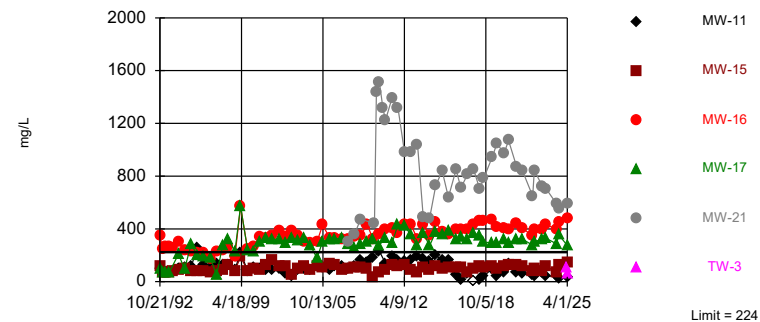
Background Data Summary: Mean=0.4603, Std. Dev.=0.1582, n=43. Normality test was disabled. Comparing 6 points to limit. Kappa overridden to 2.

Constituent: Strontium Analysis Run 9/24/2025 3:52 PM View: 2025AWQR-Control_Limit-Spring
Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY Sanitas HMSP

Exceeds Limit: MW-16, MW-17, MW-21

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=66.28, Std. Dev.=78.85, n=128. Normality test was disabled. Comparing 6 points to limit. Kappa overridden to 2.

Constituent: Sulfate Analysis Run 9/24/2025 3:52 PM View: 2025AWQR-Control_Limit-Spring
Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY Sanitas HMSP

Fall Control Limit

Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY Sanitas HMSP Printed 9/24/2025, 3:48 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Wells	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	MW-11	0.005746	n/a	8/6/2025	0.0106	Yes	45	MW-18R,MW-7	0.002128	0.001809	64.44	None	No	0.0007022	Param Inter 1 of 2
Chemical Oxygen Demand (mg/L)	MW-11	20.87	n/a	8/6/2025	232	Yes	130	MW-18R,MW-7	7.646	6.613	29.23	None	No	0.0007022	Param Inter 1 of 2
Chemical Oxygen Demand (mg/L)	MW-15	20.87	n/a	8/6/2025	12.1	No	130	MW-18R,MW-7	7.646	6.613	29.23	None	No	0.0007022	Param Inter 1 of 2
Chemical Oxygen Demand (mg/L)	MW-17	20.87	n/a	8/6/2025	23.25	Yes	130	MW-18R,MW-7	7.646	6.613	29.23	None	No	0.0007022	Param Inter 1 of 2
Chemical Oxygen Demand (mg/L)	MW-21	20.87	n/a	8/6/2025	5.52	No	130	MW-18R,MW-7	7.646	6.613	29.23	None	No	0.0007022	Param Inter 1 of 2
Chemical Oxygen Demand (mg/L)	TW-3	20.87	n/a	8/6/2025	11.1	No	130	MW-18R,MW-7	7.646	6.613	29.23	None	No	0.0007022	Param Inter 1 of 2
Chloride (mg/L)	MW-11	42.87	n/a	8/6/2025	22.3	No	136	MW-18R,MW-7	17.37	12.75	0.7353	None	No	0.0007022	Param Inter 1 of 2
Chloride (mg/L)	MW-15	42.87	n/a	8/6/2025	8.5	No	136	MW-18R,MW-7	17.37	12.75	0.7353	None	No	0.0007022	Param Inter 1 of 2
Chloride (mg/L)	MW-16	42.87	n/a	8/6/2025	5.86	No	136	MW-18R,MW-7	17.37	12.75	0.7353	None	No	0.0007022	Param Inter 1 of 2
Chloride (mg/L)	MW-17	42.87	n/a	8/6/2025	30.22	No	136	MW-18R,MW-7	17.37	12.75	0.7353	None	No	0.0007022	Param Inter 1 of 2
Chloride (mg/L)	MW-21	42.87	n/a	8/6/2025	21.3	No	136	MW-18R,MW-7	17.37	12.75	0.7353	None	No	0.0007022	Param Inter 1 of 2
Iron (mg/L)	MW-11	6.437	n/a	8/6/2025	55.1	Yes	46	MW-18R,MW-7	1.138	2.65	28.26	None	No	0.0007022	Param Inter 1 of 2
Iron (mg/L)	MW-17	6.437	n/a	8/6/2025	0.1485	No	46	MW-18R,MW-7	1.138	2.65	28.26	None	No	0.0007022	Param Inter 1 of 2
Iron (mg/L)	TW-3	6.437	n/a	8/6/2025	0.19	No	46	MW-18R,MW-7	1.138	2.65	28.26	None	No	0.0007022	Param Inter 1 of 2
Lithium (mg/L)	MW-15	0.0374	n/a	8/6/2025	0.0346	No	45	MW-18R,MW-7	0.02868	0.004363	0	None	No	0.0007022	Param Inter 1 of 2
Lithium (mg/L)	MW-16	0.0374	n/a	8/6/2025	0.0335	No	45	MW-18R,MW-7	0.02868	0.004363	0	None	No	0.0007022	Param Inter 1 of 2
Lithium (mg/L)	MW-17	0.0374	n/a	8/6/2025	0.06595	Yes	45	MW-18R,MW-7	0.02868	0.004363	0	None	No	0.0007022	Param Inter 1 of 2
Lithium (mg/L)	MW-21	0.0374	n/a	8/6/2025	0.0165	No	45	MW-18R,MW-7	0.02868	0.004363	0	None	No	0.0007022	Param Inter 1 of 2
Lithium (mg/L)	TW-3	0.0374	n/a	8/6/2025	0.027	No	45	MW-18R,MW-7	0.02868	0.004363	0	None	No	0.0007022	Param Inter 1 of 2
Manganese (mg/L)	MW-11	3.237	n/a	8/6/2025	3.62	Yes	45	MW-18R,MW-7	0.9687	1.134	33.33	None	No	0.0007022	Param Inter 1 of 2
Manganese (mg/L)	MW-15	3.237	n/a	8/6/2025	0.0251	No	45	MW-18R,MW-7	0.9687	1.134	33.33	None	No	0.0007022	Param Inter 1 of 2
Manganese (mg/L)	MW-16	3.237	n/a	8/6/2025	0.0317	No	45	MW-18R,MW-7	0.9687	1.134	33.33	None	No	0.0007022	Param Inter 1 of 2
Manganese (mg/L)	MW-17	3.237	n/a	8/6/2025	1.505	No	45	MW-18R,MW-7	0.9687	1.134	33.33	None	No	0.0007022	Param Inter 1 of 2
Manganese (mg/L)	MW-21	3.237	n/a	8/6/2025	0.0428	No	45	MW-18R,MW-7	0.9687	1.134	33.33	None	No	0.0007022	Param Inter 1 of 2
Manganese (mg/L)	TW-3	3.237	n/a	8/6/2025	0.0804	No	45	MW-18R,MW-7	0.9687	1.134	33.33	None	No	0.0007022	Param Inter 1 of 2
Molybdenum (mg/L)	MW-21	0.02833	n/a	8/6/2025	0.00219	No	46	MW-18R,MW-7	0.007885	0.01022	47.83	None	No	0.0007022	Param Inter 1 of 2
Molybdenum (mg/L)	TW-3	0.02833	n/a	8/6/2025	0.00221	No	46	MW-18R,MW-7	0.007885	0.01022	47.83	None	No	0.0007022	Param Inter 1 of 2
Nitrogen, Ammonia (mg/L)	MW-11	0.3055	n/a	8/6/2025	8.59	Yes	136	MW-18R,MW-7	0.09278	0.1064	61.76	None	No	0.0007022	Param Inter 1 of 2
Nitrogen, Ammonia (mg/L)	MW-17	0.3055	n/a	8/6/2025	2.115	Yes	136	MW-18R,MW-7	0.09278	0.1064	61.76	None	No	0.0007022	Param Inter 1 of 2
pH (S.U.)	MW-11	7.451	6.436	8/6/2025	6.41	Yes	135	MW-18R,MW-7	6.944	0.2538	0	None	No	0.0003511	Param Inter 1 of 2
pH (S.U.)	MW-15	7.451	6.436	8/6/2025	6.83	No	135	MW-18R,MW-7	6.944	0.2538	0	None	No	0.0003511	Param Inter 1 of 2
pH (S.U.)	MW-16	7.451	6.436	8/6/2025	6.4	Yes	135	MW-18R,MW-7	6.944	0.2538	0	None	No	0.0003511	Param Inter 1 of 2
pH (S.U.)	MW-17	7.451	6.436	8/6/2025	6.99	No	135	MW-18R,MW-7	6.944	0.2538	0	None	No	0.0003511	Param Inter 1 of 2
pH (S.U.)	MW-21	7.451	6.436	8/6/2025	6.67	No	135	MW-18R,MW-7	6.944	0.2538	0	None	No	0.0003511	Param Inter 1 of 2
pH (S.U.)	TW-3	7.451	6.436	8/6/2025	6.94	No	135	MW-18R,MW-7	6.944	0.2538	0	None	No	0.0003511	Param Inter 1 of 2
Selenium (mg/L)	MW-17	0.09909	n/a	8/6/2025	0.00497J	No	46	MW-18R,MW-7	0.03256	0.03326	41.3	None	No	0.0007022	Param Inter 1 of 2
Selenium (mg/L)	MW-21	0.09909	n/a	8/6/2025	0.0254	No	46	MW-18R,MW-7	0.03256	0.03326	41.3	None	No	0.0007022	Param Inter 1 of 2
Sodium (mg/L)	MW-11	76.02	n/a	8/6/2025	71.7	No	46	MW-18R,MW-7	56.9	9.56	0	None	No	0.0007022	Param Inter 1 of 2
Sodium (mg/L)	MW-15	76.02	n/a	8/6/2025	48.6	No	46	MW-18R,MW-7	56.9	9.56	0	None	No	0.0007022	Param Inter 1 of 2
Sodium (mg/L)	MW-16	76.02	n/a	8/6/2025	69.5	No	46	MW-18R,MW-7	56.9	9.56	0	None	No	0.0007022	Param Inter 1 of 2
Sodium (mg/L)	MW-17	76.02	n/a	8/6/2025	58.3	No	46	MW-18R,MW-7	56.9	9.56	0	None	No	0.0007022	Param Inter 1 of 2
Sodium (mg/L)	MW-21	76.02	n/a	8/6/2025	59.1	No	46	MW-18R,MW-7	56.9	9.56	0	None	No	0.0007022	Param Inter 1 of 2
Sodium (mg/L)	TW-3	76.02	n/a	8/6/2025	56.8	No	46	MW-18R,MW-7	56.9	9.56	0	None	No	0.0007022	Param Inter 1 of 2
Specific Conductance (umhos/cm)	MW-11	1421	n/a	8/6/2025	1348	No	135	MW-18R,MW-7	1023	198.8	0	None	No	0.0007022	Param Inter 1 of 2
Specific Conductance (umhos/cm)	MW-15	1421	n/a	8/6/2025	1044	No	135	MW-18R,MW-7	1023	198.8	0	None	No	0.0007022	Param Inter 1 of 2
Specific Conductance (umhos/cm)	MW-16	1421	n/a	8/6/2025	1594	Yes	135	MW-18R,MW-7	1023	198.8	0	None	No	0.0007022	Param Inter 1 of 2
Specific Conductance (umhos/cm)	MW-17	1421	n/a	8/6/2025	1463	Yes	135	MW-18R,MW-7	1023	198.8	0	None	No	0.0007022	Param Inter 1 of 2
Specific Conductance (umhos/cm)	MW-21	1421	n/a	8/6/2025	1465	Yes	135	MW-18R,MW-7	1023	198.8	0	None	No	0.0007022	Param Inter 1 of 2
Specific Conductance (umhos/cm)	TW-3	1421	n/a	8/6/2025	732.9	No	135	MW-18R,MW-7	1023	198.8	0	None	No	0.0007022	Param Inter 1 of 2
Strontium (mg/L)	MW-11	0.7721	n/a	8/6/2025	0.584	No	45	MW-18R,MW-7	0.458	0.157	0	None	No	0.0007022	Param Inter 1 of 2

Fall Control Limit

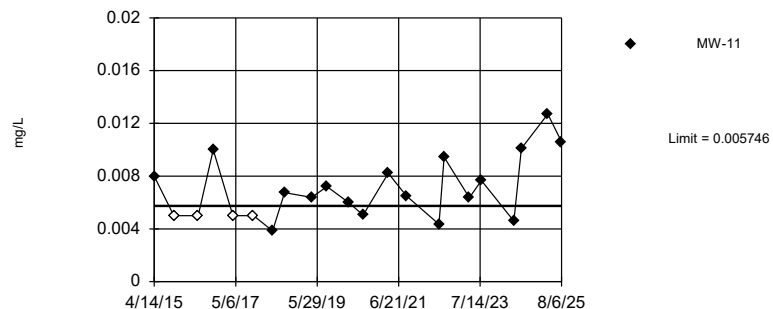
Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY Sanitas HMSP Printed 9/24/2025, 3:48 PM

<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>
Strontium (mg/L)	MW-15	0.7721	n/a	8/6/2025	0.48	No	45	MW-18R,MW-7	0.458	0.157	0	None	No	0.0007022	Param Inter 1 of 2
Strontium (mg/L)	MW-16	0.7721	n/a	8/6/2025	0.619	No	45	MW-18R,MW-7	0.458	0.157	0	None	No	0.0007022	Param Inter 1 of 2
Strontium (mg/L)	MW-17	0.7721	n/a	8/6/2025	0.603	No	45	MW-18R,MW-7	0.458	0.157	0	None	No	0.0007022	Param Inter 1 of 2
Strontium (mg/L)	MW-21	0.7721	n/a	8/6/2025	0.495	No	45	MW-18R,MW-7	0.458	0.157	0	None	No	0.0007022	Param Inter 1 of 2
Strontium (mg/L)	TW-3	0.7721	n/a	8/6/2025	0.284	No	45	MW-18R,MW-7	0.458	0.157	0	None	No	0.0007022	Param Inter 1 of 2
Sulfate (mg/L)	MW-15	222.9	n/a	8/6/2025	137	No	130	MW-18R,MW-7	66.32	78.29	0	None	No	0.0007022	Param Inter 1 of 2
Sulfate (mg/L)	MW-16	222.9	n/a	8/6/2025	458	Yes	130	MW-18R,MW-7	66.32	78.29	0	None	No	0.0007022	Param Inter 1 of 2
Sulfate (mg/L)	MW-17	222.9	n/a	8/6/2025	303.5	Yes	130	MW-18R,MW-7	66.32	78.29	0	None	No	0.0007022	Param Inter 1 of 2
Sulfate (mg/L)	MW-21	222.9	n/a	8/6/2025	319	Yes	130	MW-18R,MW-7	66.32	78.29	0	None	No	0.0007022	Param Inter 1 of 2
Sulfate (mg/L)	TW-3	222.9	n/a	8/6/2025	21.3	No	130	MW-18R,MW-7	66.32	78.29	0	None	No	0.0007022	Param Inter 1 of 2

Exceeds Limit: MW-11

Prediction Limit

Interwell Parametric



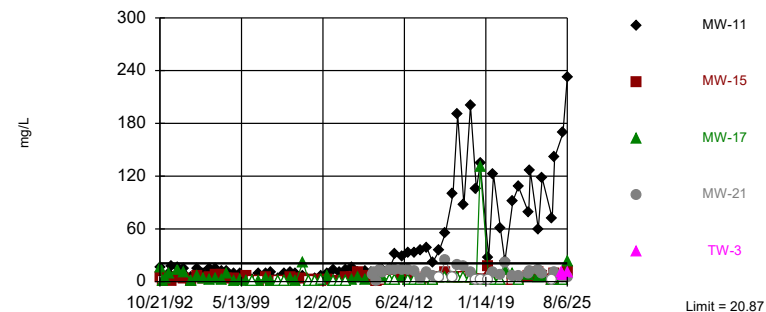
Background Data Summary: Mean=0.002128, Std. Dev.=0.001809, n=45, 64.44% NDs (user selected parametric test despite non-detects). Normality test was disabled. Assumes 4 future values. Kappa overridden to 2.

Constituent: Arsenic Analysis Run 9/24/2025 3:45 PM View: 2025AWQR-Control_Limit-Fall
Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY Sanitas HMSP

Exceeds Limit: MW-11, MW-17

Prediction Limit

Interwell Parametric



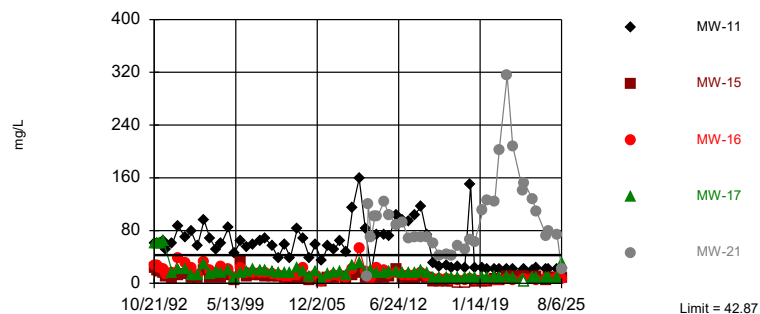
Background Data Summary: Mean=7.646, Std. Dev.=6.613, n=130, 29.23% NDs. Normality test was disabled. Comparing 5 points to limit. Kappa overridden to 2.

Constituent: Chemical Oxygen Demand Analysis Run 9/24/2025 3:45 PM View: 2025AWQR-Control_Limit
Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY Sanitas HMSP

Within Limit

Prediction Limit

Interwell Parametric



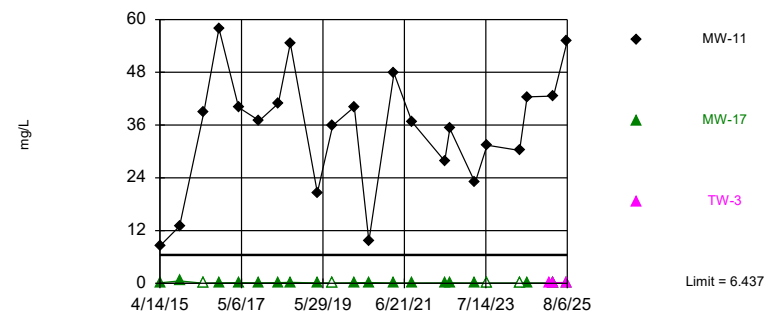
Background Data Summary: Mean=17.37, Std. Dev.=12.75, n=136, 0.7353% NDs. Normality test was disabled. Comparing 5 points to limit. Kappa overridden to 2.

Constituent: Chloride Analysis Run 9/24/2025 3:45 PM View: 2025AWQR-Control_Limit-Fall
Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY Sanitas HMSP

Exceeds Limit: MW-11

Prediction Limit

Interwell Parametric



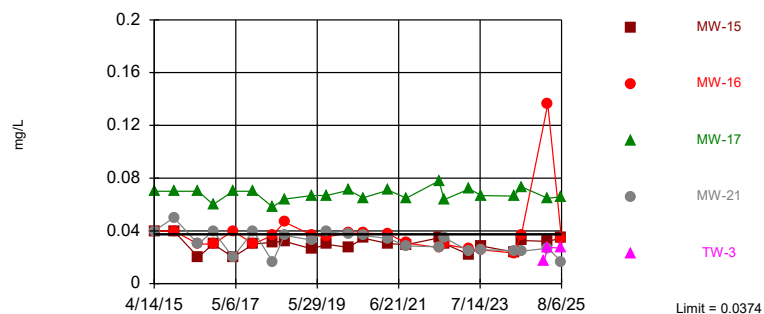
Background Data Summary: Mean=1.138, Std. Dev.=2.65, n=46, 28.26% NDs. Normality test was disabled. Comparing 3 points to limit. Assumes 2 future values. Kappa overridden to 2.

Constituent: Iron Analysis Run 9/24/2025 3:45 PM View: 2025AWQR-Control_Limit-Fall
Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY Sanitas HMSP

Exceeds Limit: MW-17

Prediction Limit

Interwell Parametric



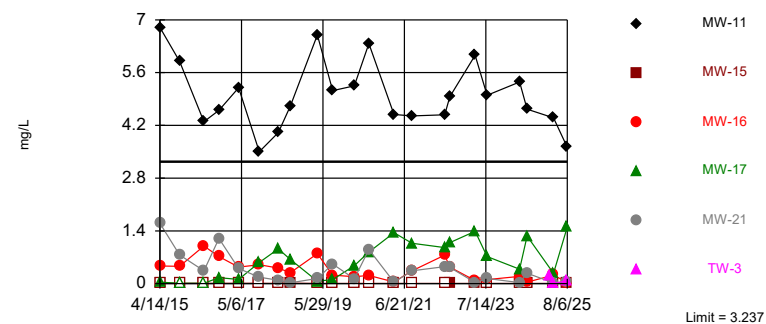
Background Data Summary: Mean=0.02868, Std. Dev.=0.004363, n=45. Normality test was disabled. Comparing 5 points to limit. Kappa overridden to 2.

Constituent: Lithium Analysis Run 9/24/2025 3:45 PM View: 2025AWQR-Control_Limit-Fall
Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY Sanitas HMSP

Exceeds Limit: MW-11

Prediction Limit

Interwell Parametric



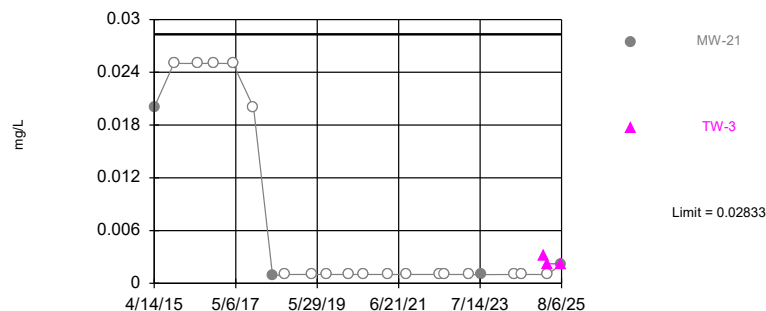
Background Data Summary: Mean=0.9687, Std. Dev.=1.134, n=45, 33.33% NDs. Normality test was disabled. Comparing 6 points to limit. Kappa overridden to 2.

Constituent: Manganese Analysis Run 9/24/2025 3:45 PM View: 2025AWQR-Control_Limit-Fall
Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY Sanitas HMSP

Within Limit

Prediction Limit

Interwell Parametric



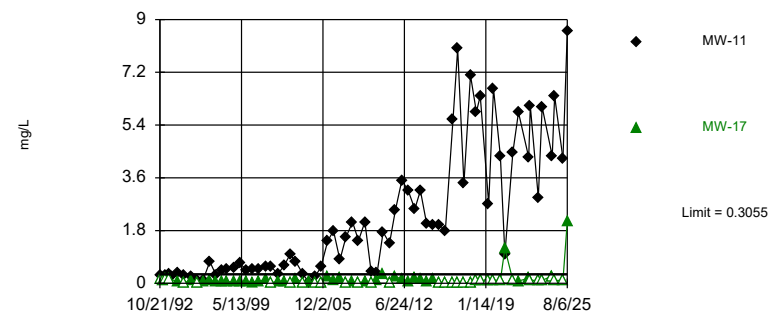
Background Data Summary: Mean=0.007885, Std. Dev.=0.01022, n=46, 47.83% NDs. Normality test was disabled. Comparing 2 points to limit. Assumes 3 future values. Kappa overridden to 2.

Constituent: Molybdenum Analysis Run 9/24/2025 3:45 PM View: 2025AWQR-Control_Limit-Fall
Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY Sanitas HMSP

Exceeds Limit: MW-11, MW-17

Prediction Limit

Interwell Parametric



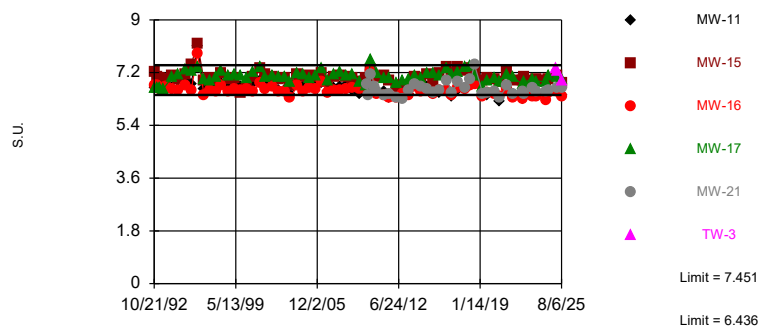
Background Data Summary: Mean=0.09278, Std. Dev.=0.1064, n=136, 61.76% NDs (user selected parametric test despite non-detects). Normality test was disabled. Comparing 2 points to limit. Assumes 3 future values. Kappa overridden to 2.

Constituent: Nitrogen, Ammonia Analysis Run 9/24/2025 3:45 PM View: 2025AWQR-Control_Limit-Fall
Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY Sanitas HMSP

Exceeds Limits: MW-11, MW-16

Prediction Limit

Interwell Parametric



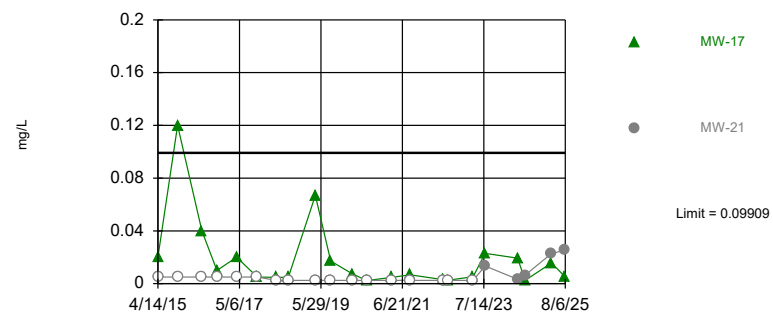
Background Data Summary: Mean=6.944, Std. Dev.=0.2538, n=135. Normality test was disabled. Comparing 6 points to limit. Kappa overridden to 2.

Constituent: pH Analysis Run 9/24/2025 3:45 PM View: 2025AWQR-Control_Limit-Fall
Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY Sanitas HMSP

Within Limit

Prediction Limit

Interwell Parametric



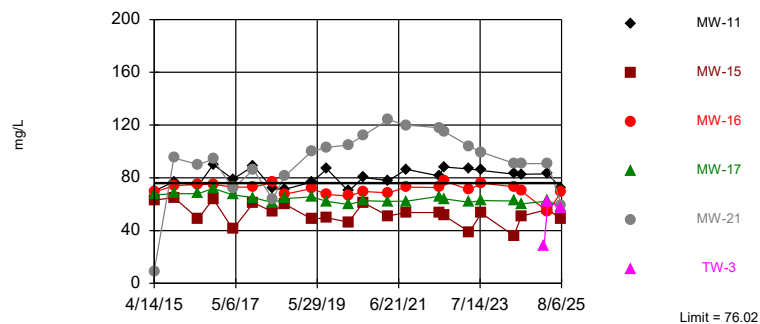
Background Data Summary: Mean=0.03256, Std. Dev.=0.03326, n=46, 41.3% NDs. Normality test was disabled. Comparing 2 points to limit. Assumes 3 future values. Kappa overridden to 2.

Constituent: Selenium Analysis Run 9/24/2025 3:45 PM View: 2025AWQR-Control_Limit-Fall
Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY Sanitas HMSP

Within Limit

Prediction Limit

Interwell Parametric



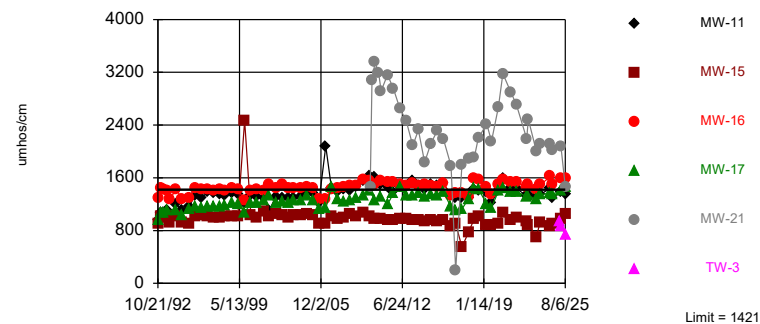
Background Data Summary: Mean=56.9, Std. Dev.=9.56, n=46. Normality test was disabled. Comparing 6 points to limit. Kappa overridden to 2.

Constituent: Sodium Analysis Run 9/24/2025 3:45 PM View: 2025AWQR-Control_Limit-Fall
Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY Sanitas HMSP

Exceeds Limit: MW-16, MW-17, MW-21

Prediction Limit

Interwell Parametric

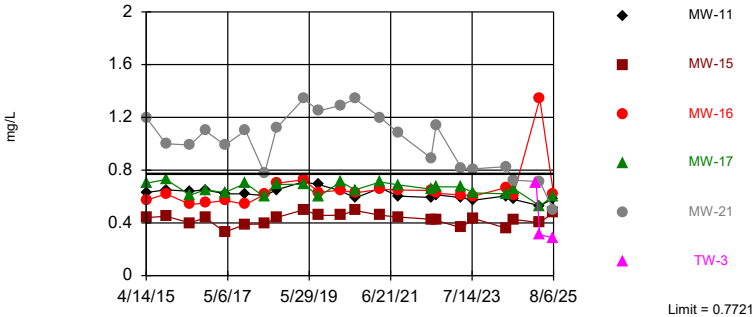


Background Data Summary: Mean=1023, Std. Dev.=198.8, n=135. Normality test was disabled. Comparing 6 points to limit. Kappa overridden to 2.

Constituent: Specific Conductance Analysis Run 9/24/2025 3:45 PM View: 2025AWQR-Control_Limit-Fall
Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY Sanitas HMSP

Within Limit

Prediction Limit
Interwell Parametric

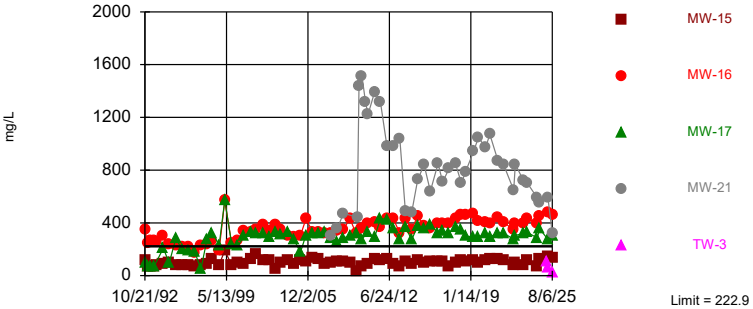


Background Data Summary: Mean=0.458, Std. Dev.=0.157, n=45. Normality test was disabled. Comparing 6 points to limit. Kappa overridden to 2.

Constituent: Strontium Analysis Run 9/24/2025 3:45 PM View: 2025AWQR-Control_Limit-Fall
Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY Sanitas HMSP

Exceeds Limit: MW-16, MW-17, MW-21

Prediction Limit
Interwell Parametric



Background Data Summary: Mean=66.32, Std. Dev.=78.29, n=130. Normality test was disabled. Comparing 5 points to limit. Kappa overridden to 2.

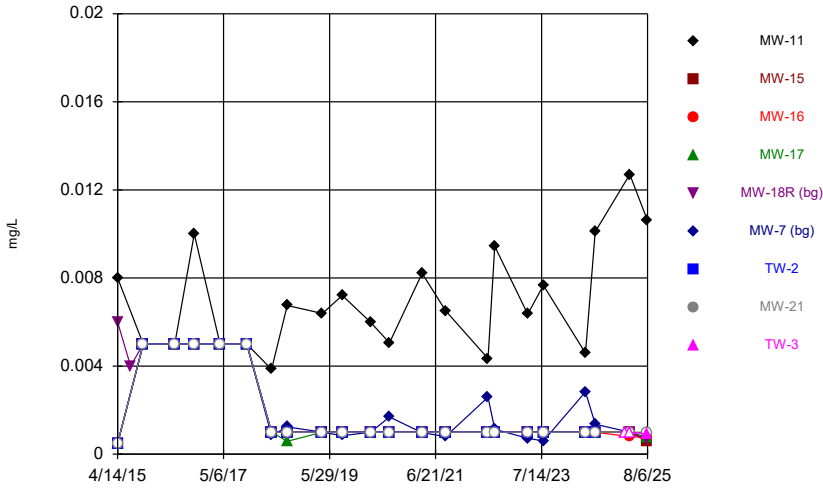
Constituent: Sulfate Analysis Run 9/24/2025 3:45 PM View: 2025AWQR-Control_Limit-Fall
Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY Sanitas HMSP



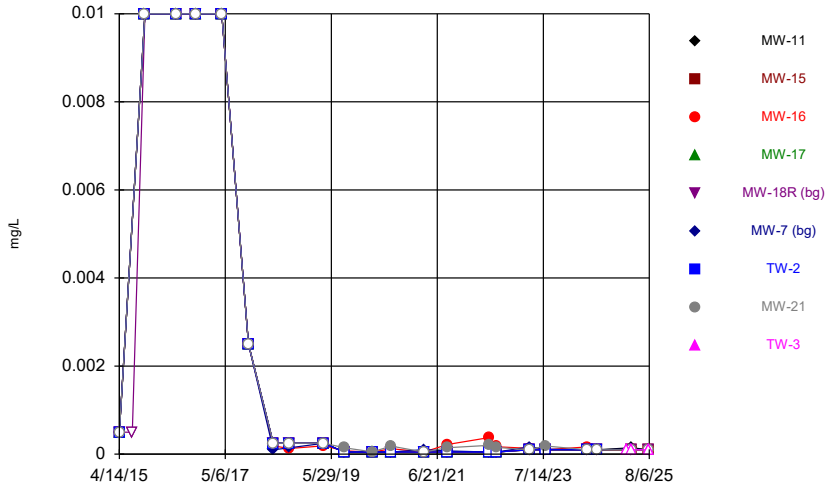
Attachment C

Time Series Graphs

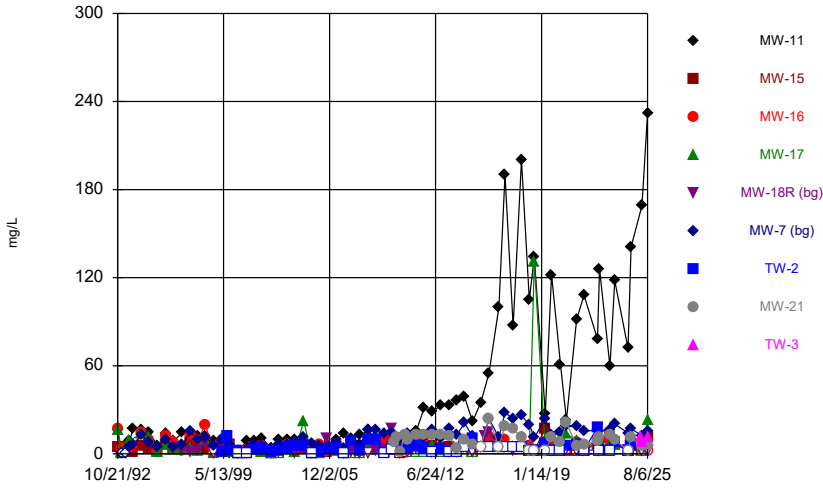
Time Series



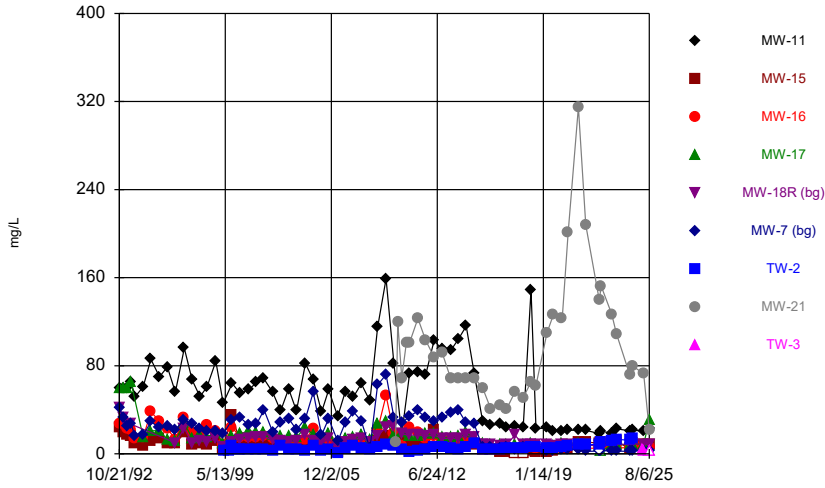
Time Series



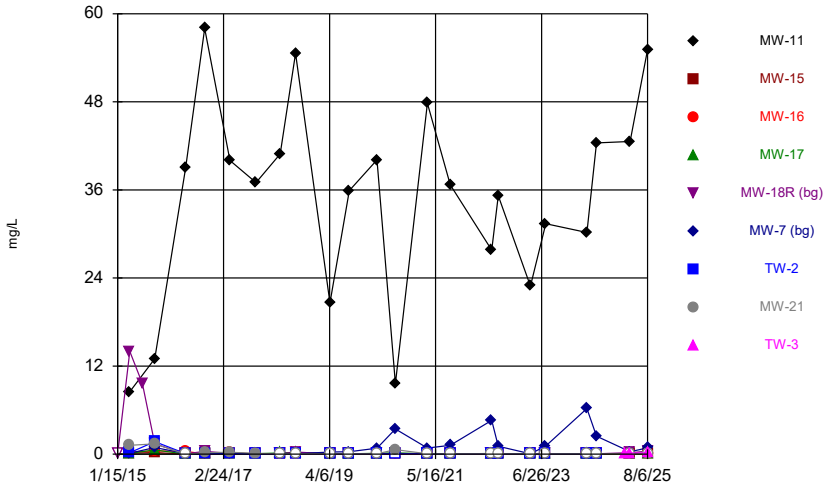
Time Series



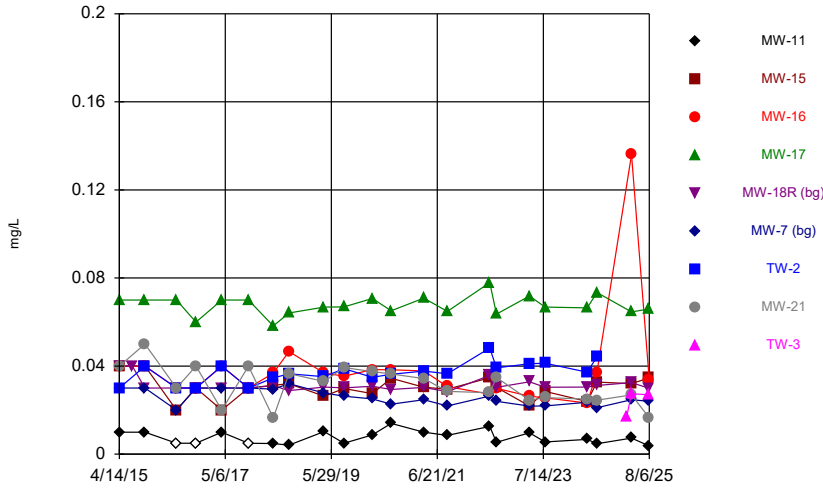
Time Series



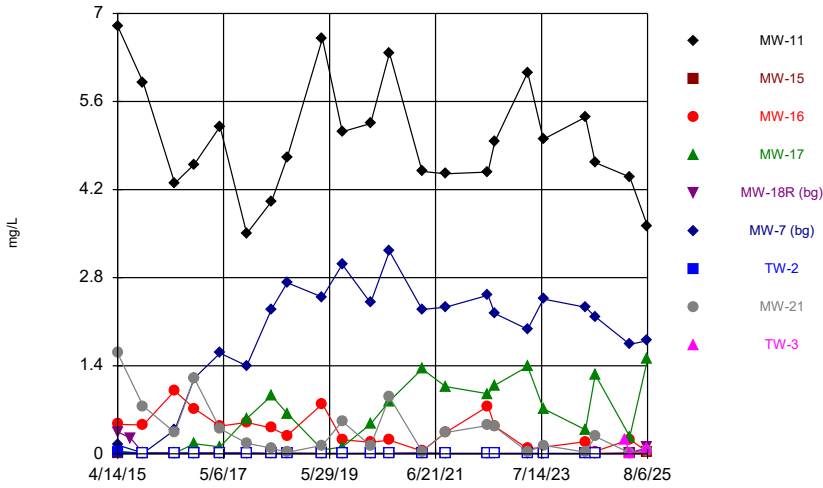
Time Series



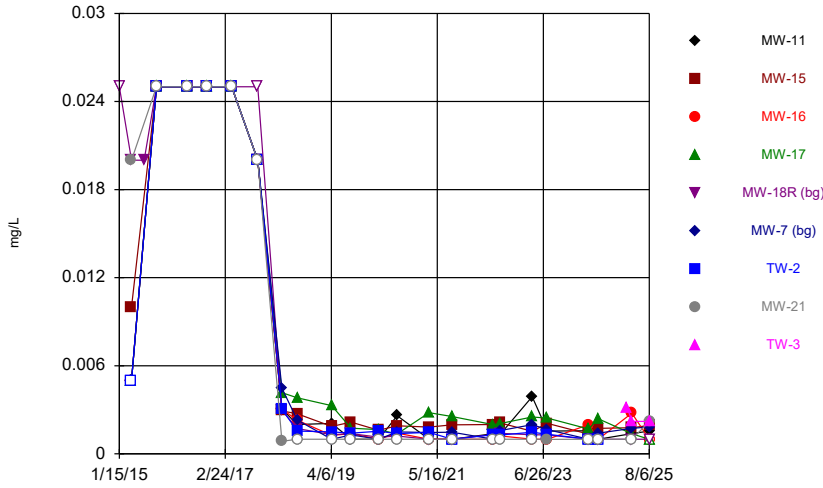
Time Series



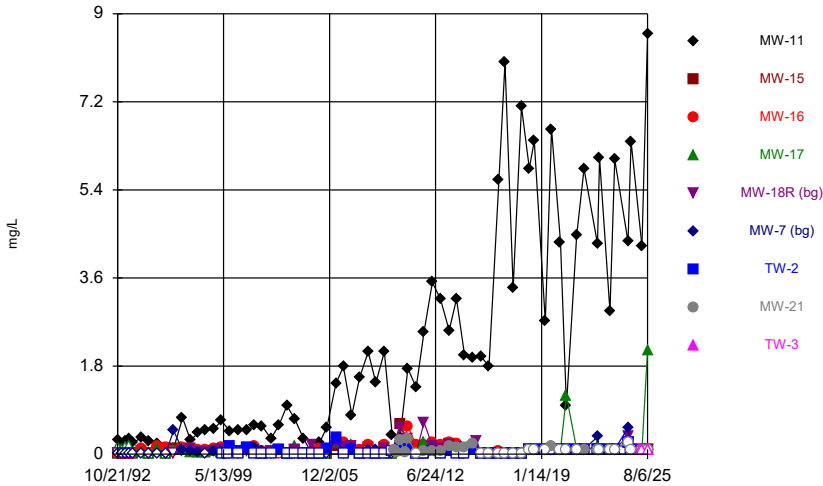
Time Series



Time Series

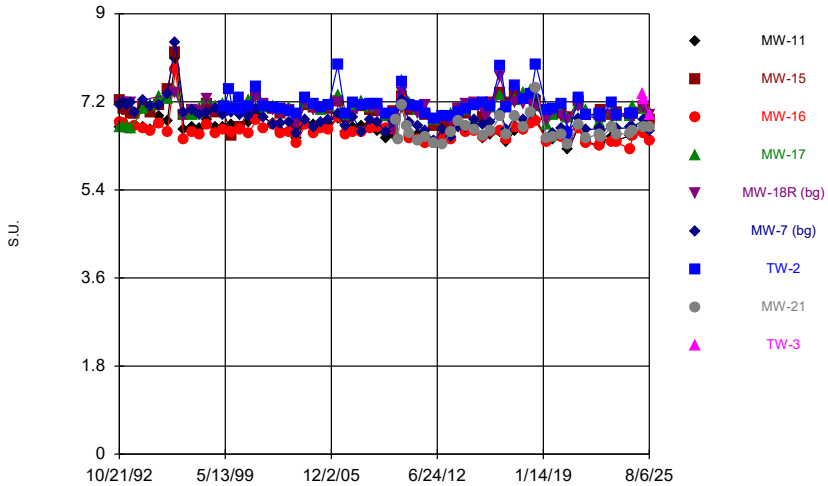


Time Series



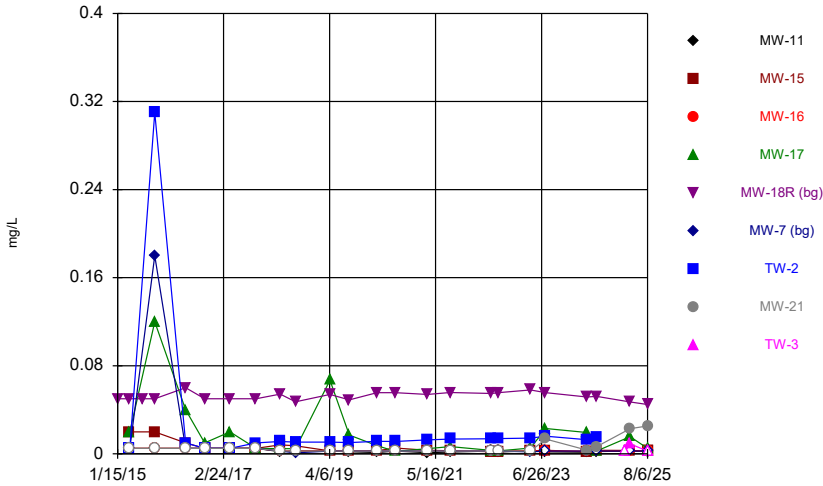
Constituent: Nitrogen, Ammonia Analysis Run 9/24/2025 3:27 PM View: 2025AWQR-Time_Series
Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY Sanitas HMSP

Time Series



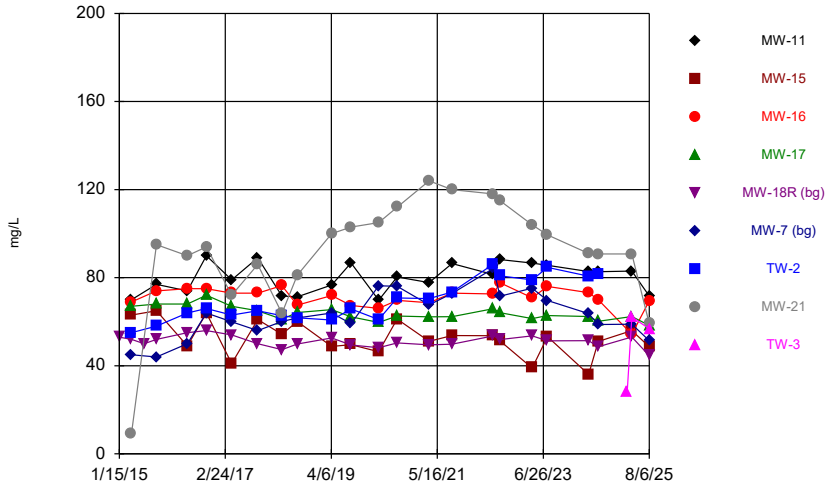
Constituent: pH Analysis Run 9/24/2025 3:27 PM View: 2025AWQR-Time_Series
Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY Sanitas HMSP

Time Series



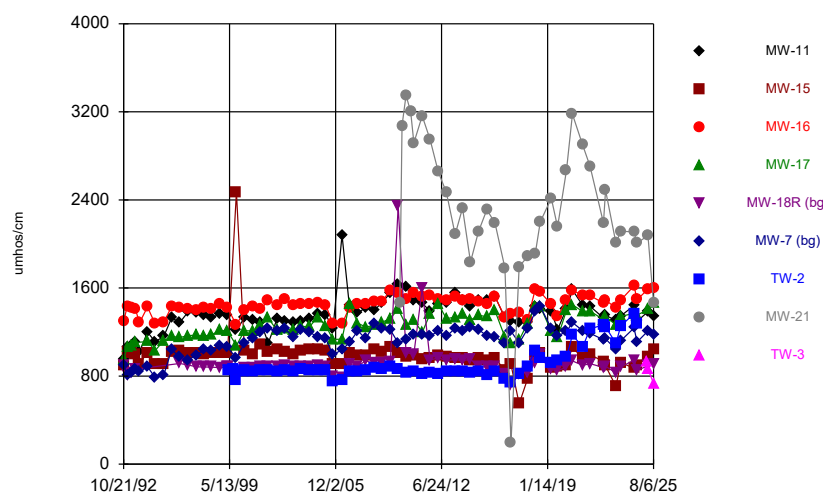
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Time Series



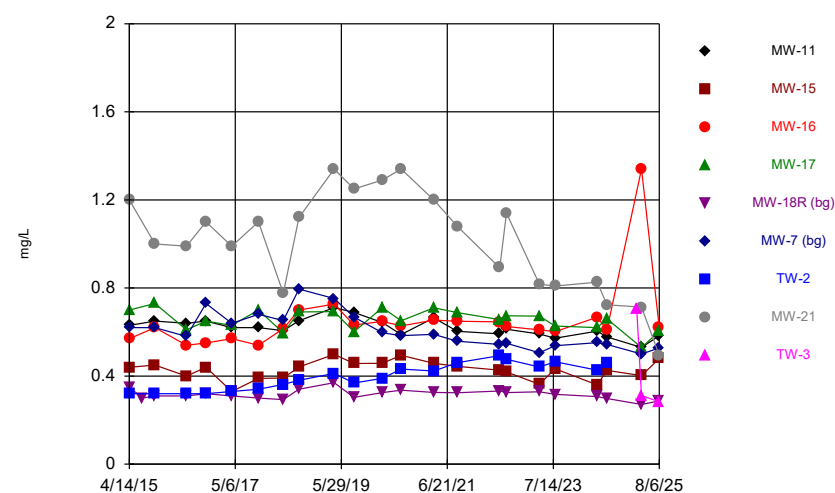
Constituent: Sodium Analysis Run 9/24/2025 3:27 PM View: 2025AWQR-Time_Series
Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY Sanitas HMSP

Time Series



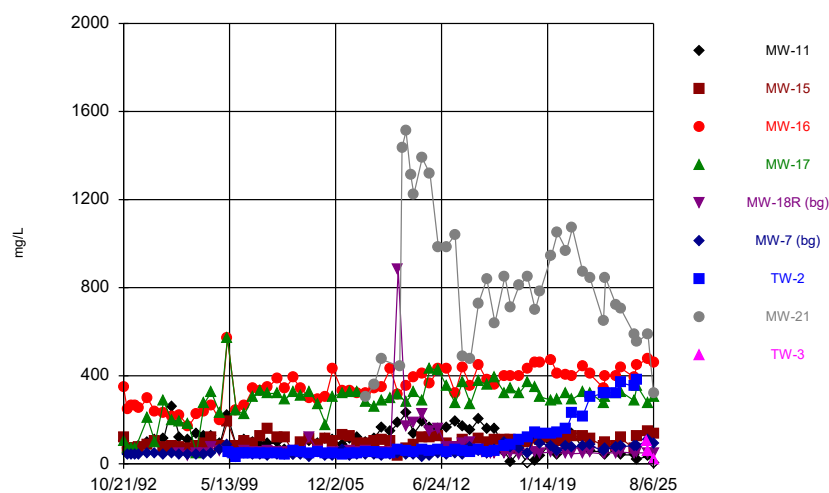
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Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY Sanitas HMSP

Time Series



Constituent: Strontium Analysis Run 9/24/2025 3:27 PM View: 2025AWQR-Time_Series
Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY Sanitas HMSP

Time Series



Constituent: Sulfate Analysis Run 9/24/2025 3:27 PM View: 2025AWQR-Time_Series
Climax Molybdenum Company Landfill Client: SCS Engineers Data: CMOLY Sanitas HMSP

Appendix E

Mann-Kendall Trend Table

Monitoring Well	Constituent Name	Calculated Statistic		
		Decreasing Trend	Stable Trend	Increasing Trend
MW-7	Arsenic		-6	
	Chemical Oxygen Demand		-6	
	Iron		-4	
	Lithium		-3	
	Manganese	-16		
	Nitrogen, Ammonia		-4	
	pH		5	
	Sodium	-24		
	Specific Conductance		6	
	Strontium		-7	
	Sulfate			24
MW-11	Arsenic			16
	Chemical Oxygen Demand			16
	Chloride			14
	Iron			18
	Manganese		-10	
	Molybdenum		0	
	Nitrogen, Ammonia		8	
	pH			16
	Sodium		-12	
	Specific Conductance		4	
	Strontium		-12	
	Sulfate	-19		
MW-15	Chemical Oxygen Demand		1	
	Chloride		-4	
	Lithium		4	
	Manganese		6	
	Molybdenum		-4	
	pH		0	
	Sodium		-4	
	Specific Conductance		10	
	Strontium		2	
	Sulfate			14
MW-16	Cadmium	-21		
	Chemical Oxygen Demand	-23		
	Chloride			16
	Lithium		6	
	Manganese	-14		
	Molybdenum		6	
	pH		8	
	Sodium	-16		
	Specific Conductance			16
	Strontium		1	
	Sulfate			20
MW-17	Chemical Oxygen Demand		-7	
	Chloride			20
	Iron		1	
	Lithium		-8	
	Manganese		0	
	Molybdenum		-12	
	Nitrogen, Ammonia		4	
	pH			16
	Selenium		2	
	Sodium	-19		
	Specific Conductance			22
	Strontium	-16		
	Sulfate		2	

Monitoring Well	Constituent Name	Calculated Statistic		
		Decreasing Trend	Stable Trend	Increasing Trend
MW-18R	Chemical Oxygen Demand		-1	
	Chloride			16
	Iron			13
	Lithium		-6	
	Manganese		10	
	pH			13
	Selenium	-16		
	Sodium	-15		
	Specific Conductance		10	
	Strontium	-24		
	Sulfate		-4	
MW-21	Cadmium	-14		
	Chemical Oxygen Demand		-8	
	Chloride	-22		
	Lithium	-13		
	Manganese	-14		
	Molybdenum		7	
	pH			16
	Selenium			21
	Sodium	-27		
	Specific Conductance	-16		
	Strontium	-22		
	Sulfate	-19		



Appendix F

Leachate Control System Performance Evaluation Report

Table F1
Leachate Management Summary
2025 Annual Water Quality Report
Climax Molybdenum Company Industrial Landfill
Permit No.56-SDP-06-80P

Date of Measurement	Column in Piezometer (ft)					Discharge to Treatment Ponds (gal)	Precipitation (in)
	LPZ-1	LPZ-2	LPZ-3	LPZ-4	LPZ-5		
10/1/2024	-	-	-	-	0.37	20,480	2.08
11/1/2024	-	-	-	-	0.55	34,115	2.87
12/1/2024	-	-	-	-	0.64	31,266	3.21
1/1/2025	-	-	-	-	0.48	29,482	0.66
2/1/2025	-	-	-	-	0.51	20,945	0.10
3/1/2025	-	-	-	-	0.44	74,777	3.37
4/1/2025	5.96	12.94	8.48	9.67	0.30	94,475	3.09
5/1/2025	-	-	-	-	0.47	91,667	3.87
6/1/2025	-	-	-	-	0.05	31,777	4.64
7/1/2025	-	-	-	-	0.37	77,341	13.21
8/6/2025	5.98	12.88	8.52	9.79	Dry	38,767	1.32
9/1/2025	-	-	-	-	Dry	30,926	1.03
Reporting Period Total						576,017	39.45

Notes:

- 1) Leachate column thicknesses for the reporting period were within historical ranges.
- 2) Historical leachate levels and graphs are provided in Attachment A.
- 3) Precipitation data for October 2024 - September 2025 obtained from [ncdc.noaa.gov](https://www.ncdc.noaa.gov).
- 4) Leachate head levels at LPZ-5 exceeding 12 inches have been regularly measured and acknowledged by the DNR. Permit special provision 3.b. requires a more efficient leachate collection layer for future cells. The updated design was submitted to the DNR by December 24, 2024 (Doc #11540).

Comments:

Reporting Period: October 2024 - September 2025.

Approved Changes to Leachate Collection System: None.

Proposed Changes to Leachate Collection System: None.

Maintenance Performed on Leachate Collection System: Leachate lines were jetted in October 2024, March 2025, June 2025 and July 2025.

Leachate line repair occurred September 30, 2025. See following page for repair details.

Last Date of Cleaning and Inspection: July 2025.

Date of Next Cleaning and Inspection: Anticipated quarterly to semiannually in 2026.

Volume of Leachate Recirculated: Not Applicable.

Volume of Leachate Treated Off-Site: 576,017 gallons were transported to the Climax Molybdenum Co. treatment ponds.

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

Precautionary leachate line inspection via camera was performed in early 2025 and discovered a collapsed section of pipe in the east active area leachate drainage line at the "Y" intersection. Repair was conducted on September 30, 2025, by Steger Construction, Inc. Visually affected soils around the area of repair were placed in the active cell of the landfill for disposal. Following the repair, the leachate line was stabilized and supported with river rock and then covered and graded with soil. Photos of the repair work are provided below.

Photo 1 - Excavation around damaged portion of leachate line



Photo 2 - Repaired leachate line



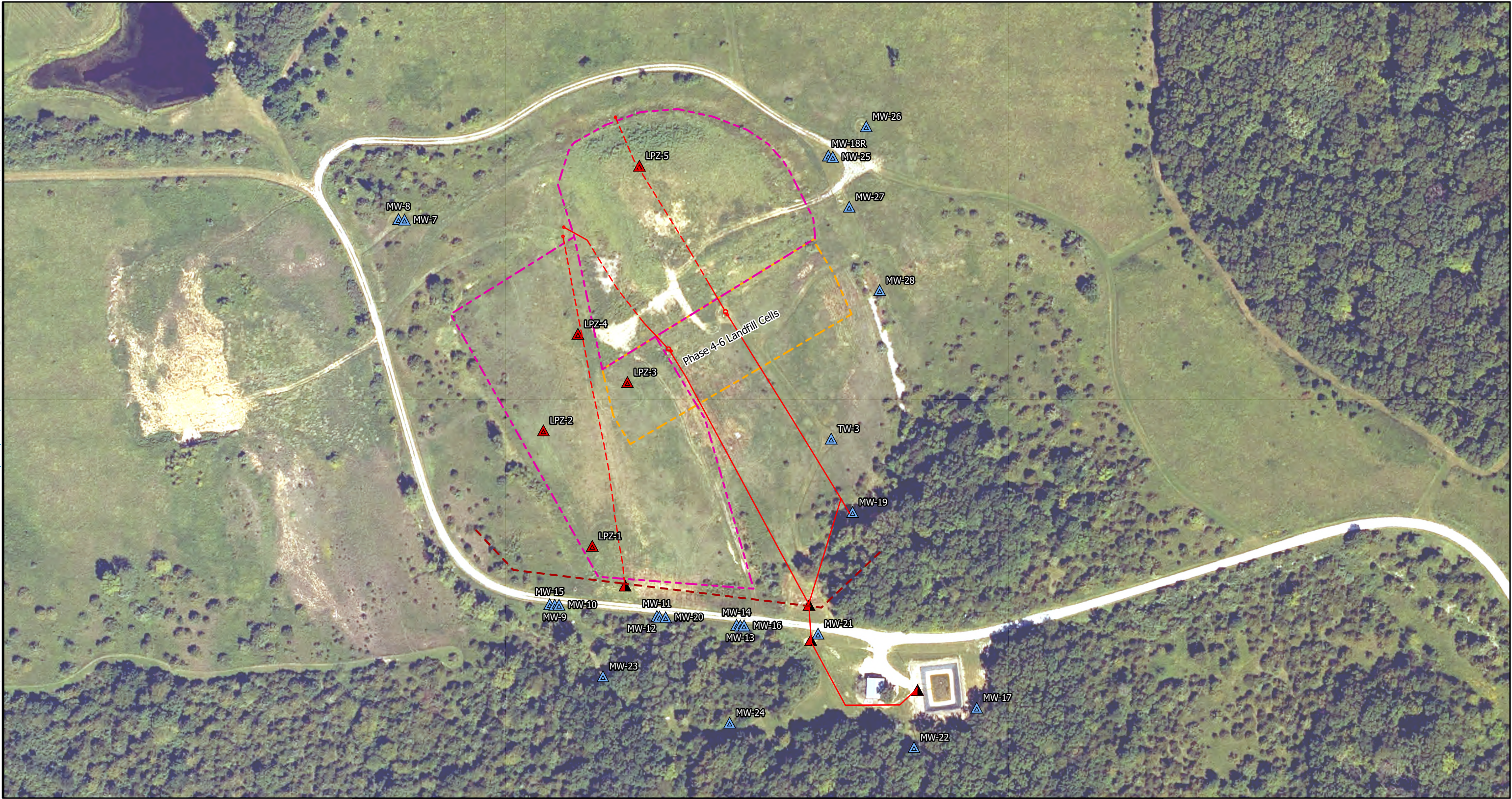
Photo 3 - River rock worked under and around section of repair



Photo 4 - Excavated area filled and graded



C:\Users\hmadson\OneDrive - SCS Engineers\Desktop\GIS\Map\Iowa\Offroad\Site\Map\CMO\V.2024\AWOP\CMO.V.2024\AWOP.aprx
Path: C:\Users\hmadson\OneDrive - SCS Engineers\Desktop\GIS\Map\Iowa\Offroad\Site\Map\CMO\V.2024\AWOP\CMO.V.2024\AWOP.aprx
User: hmadson
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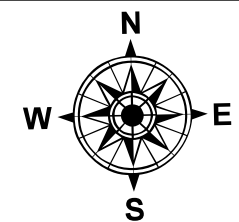


Leachate Control System

Legend

- | | | |
|--|--------------------------------|-----------------------------------|
| Approximate Monitoring Well Location | Approximate Manhole Location | Approximate Waste Boundary |
| Approximate Leachate Monitoring Location | Solid Leachate Pipe | Approximate Future Waste Boundary |
| | Perforated Leachate Pipe | Approximate Property Boundary |
| | Approximate Toe Drain Location | |

Climax Molybdenum
Industrial Landfill
Argyle, Iowa
Project No: 27225013.00
Drawing Date: November
2025



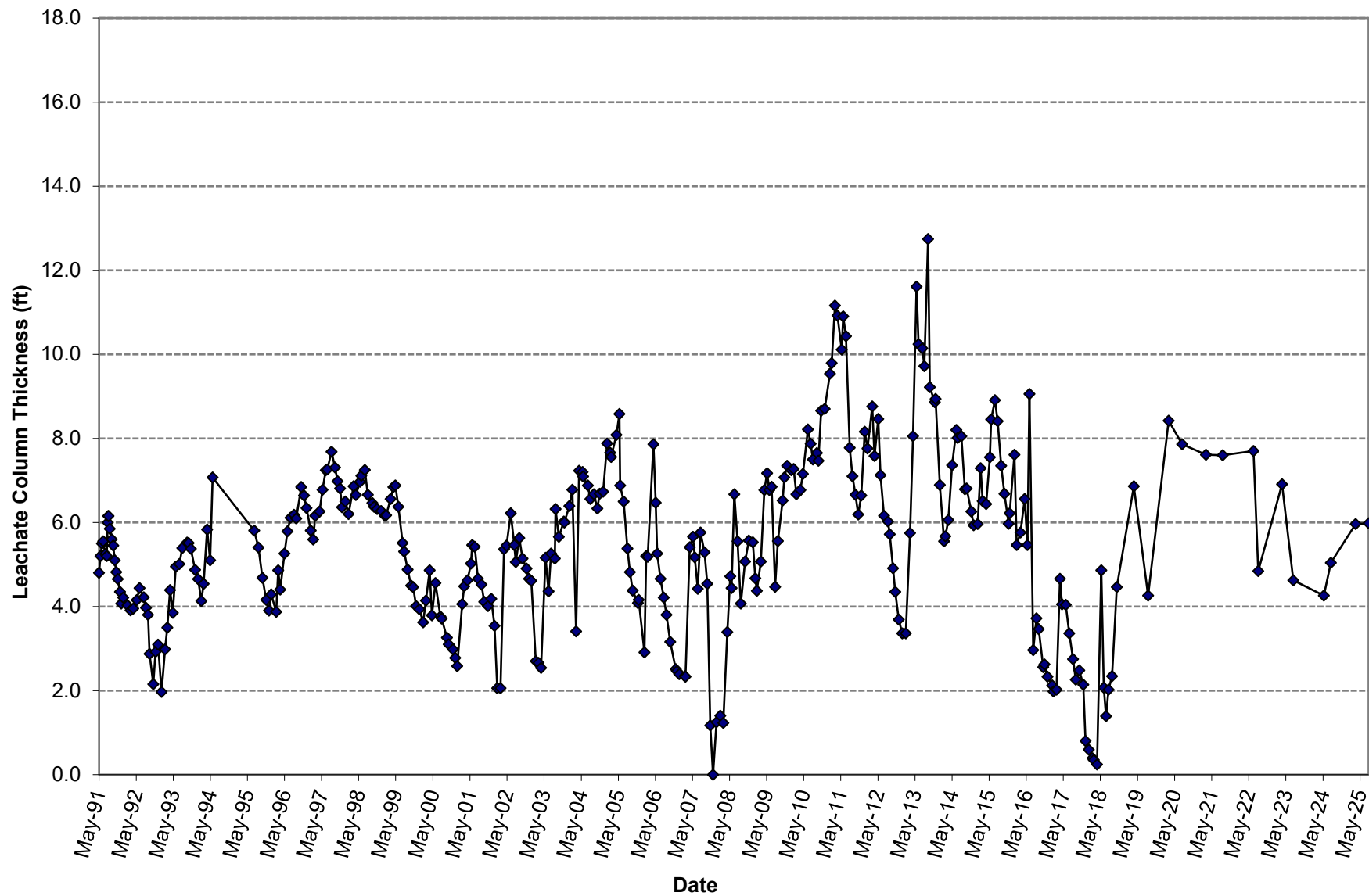
0 80 160 320 480
Feet

Figure 1

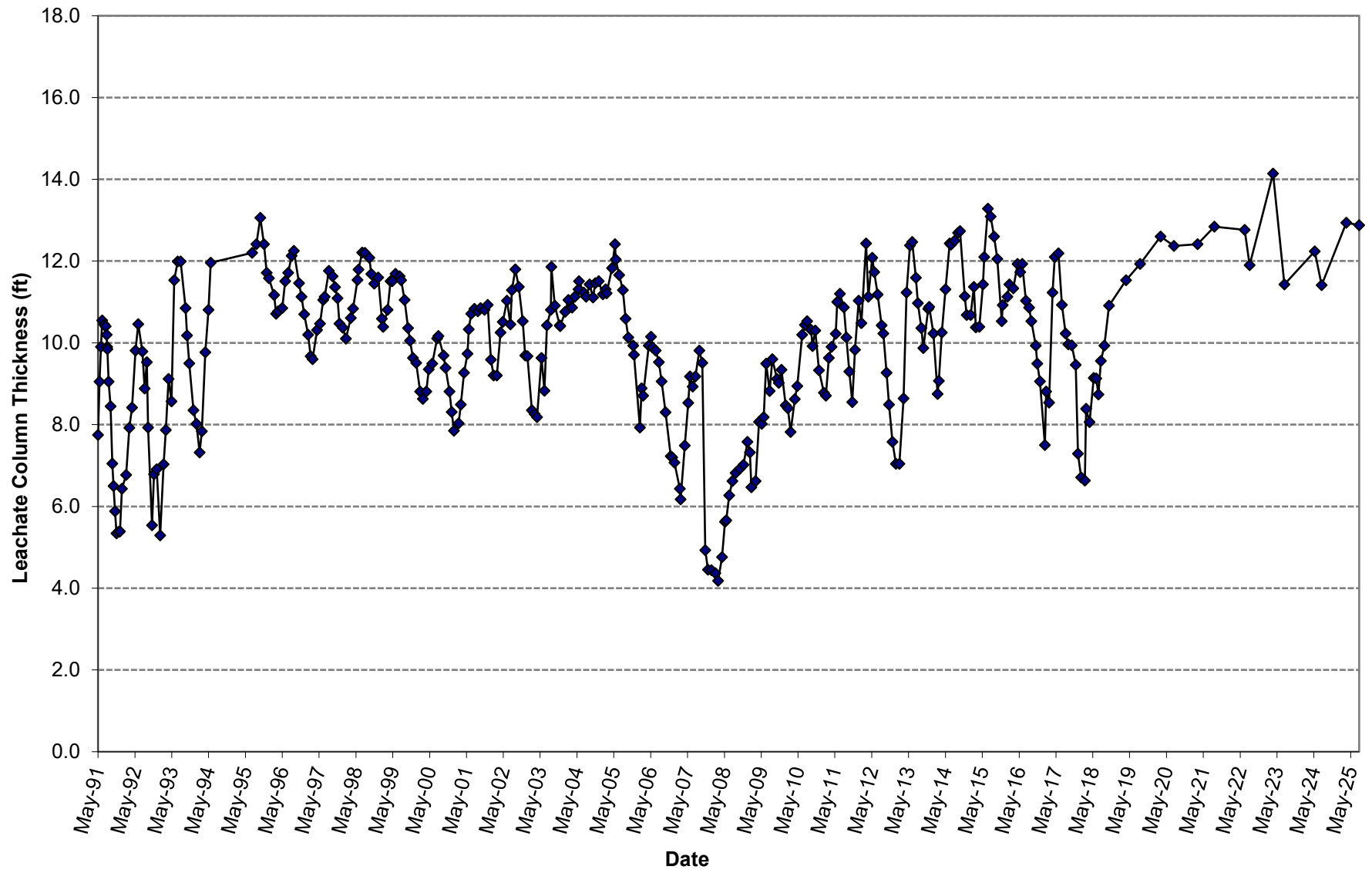
Attachment A

Historical Leachate Level Graphs

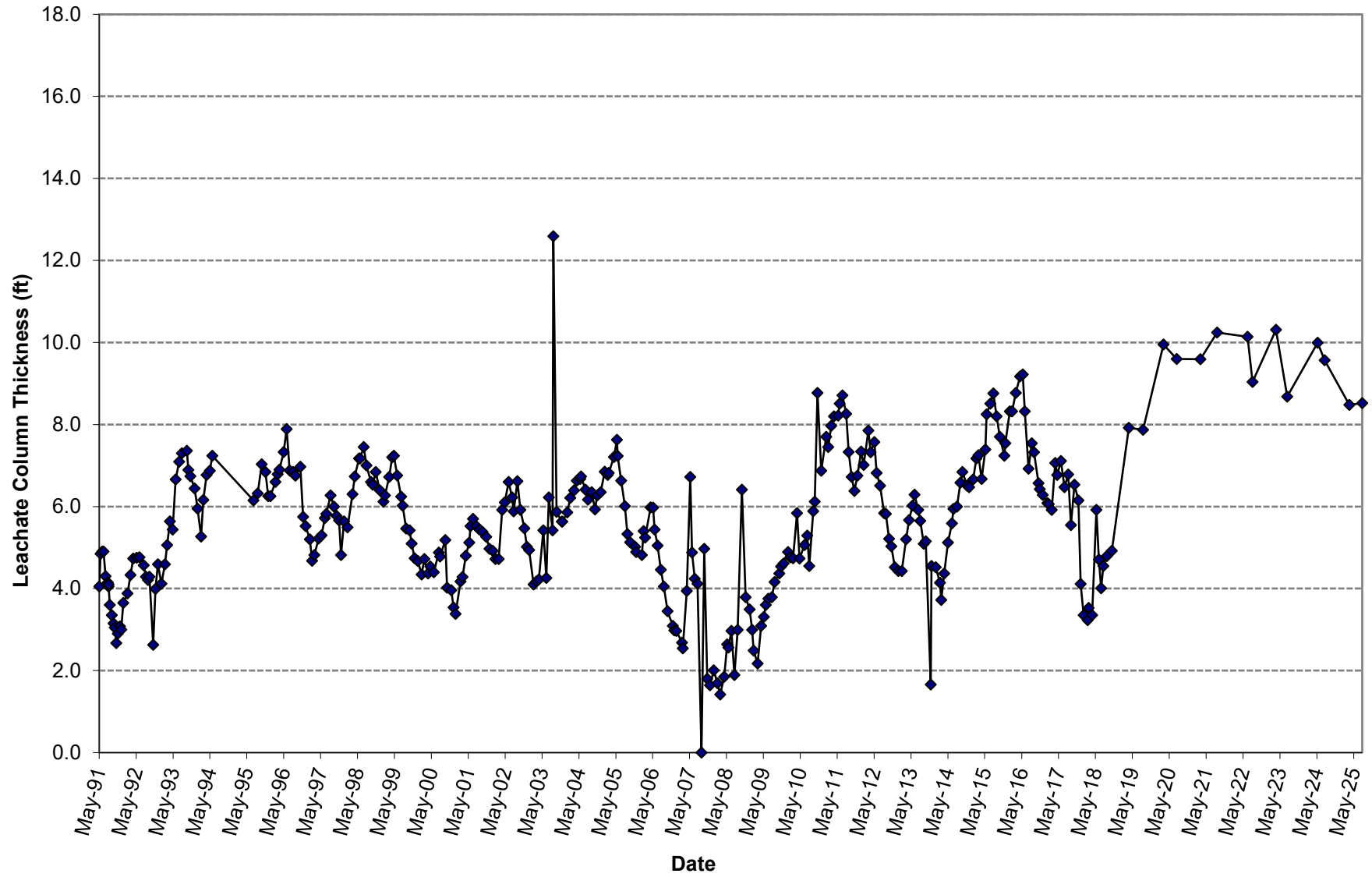
LPZ-1



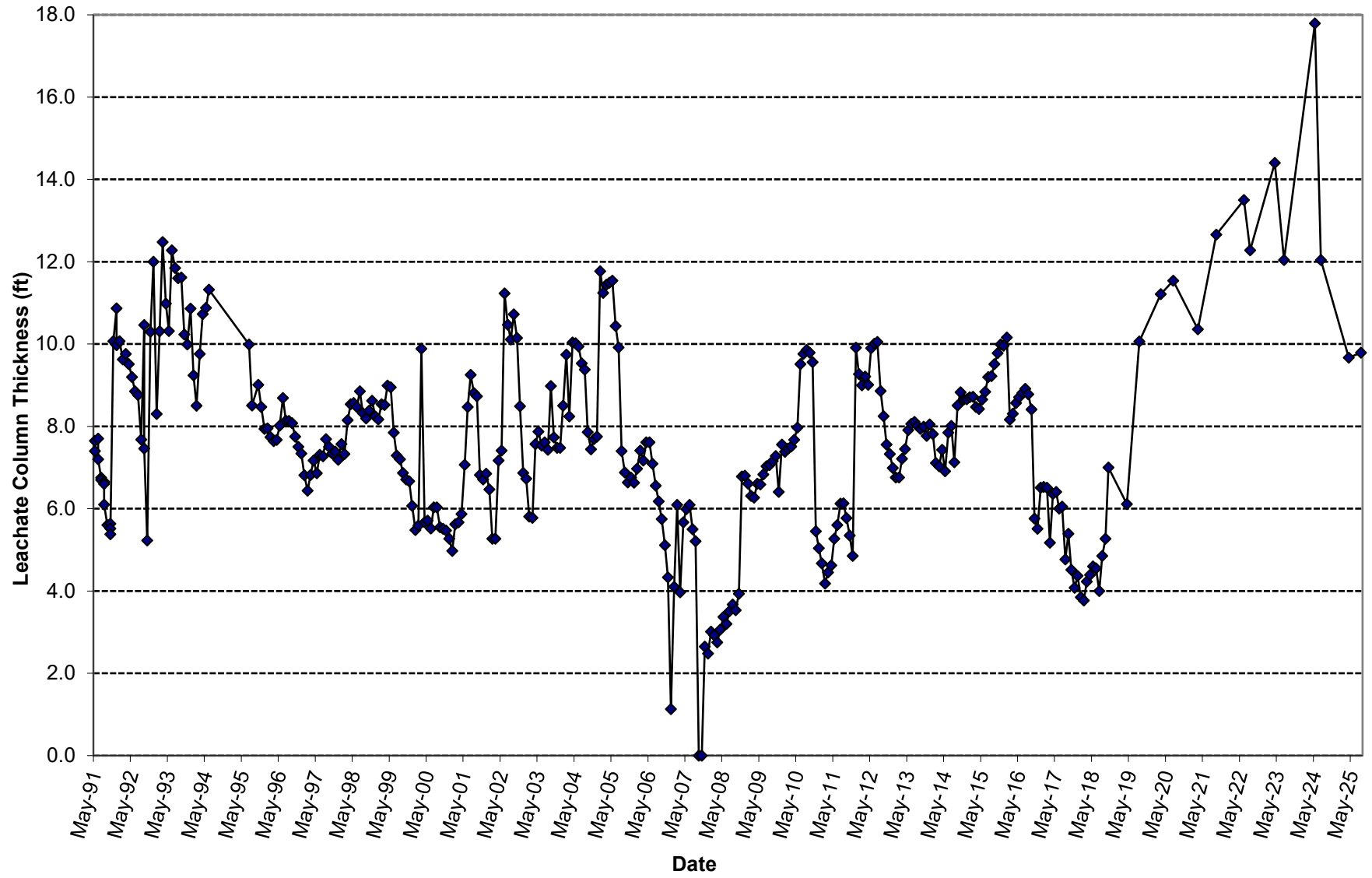
LPZ-2



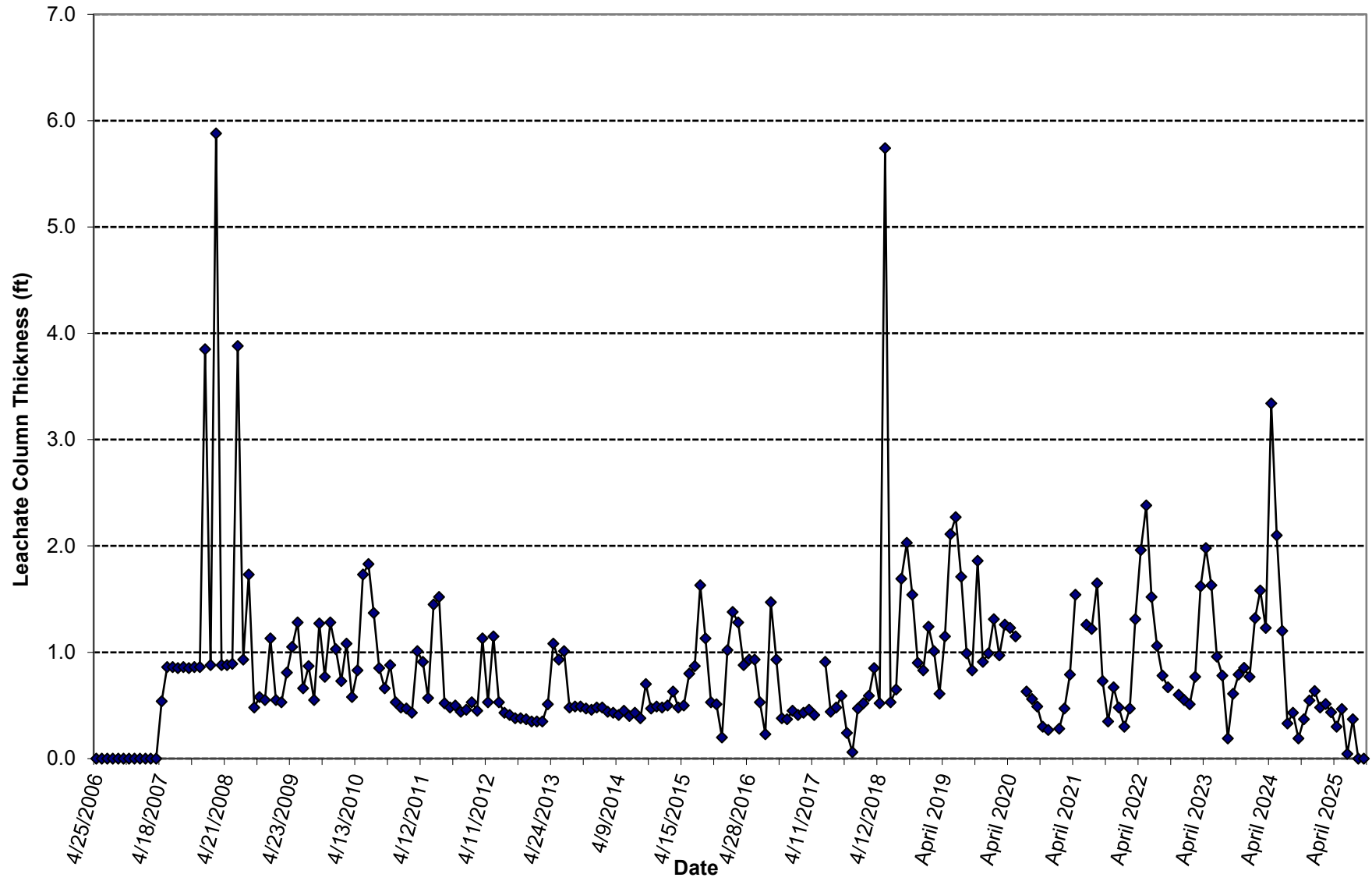
LPZ-3



LPZ-4



LPZ-5



Attachment B

Leachate Quality Testing Results

Historical Leachate Analytical Results
Climax Molybdenum Company Industrial Landfill

Date	Semiannual Parameters																											
										Dissolved Metals				Total Metals														
	pH	Sp Cd	Temp F	NH3-N	Cl	COD	F	SO4	TSS	Fe	Mo	Na	Se	Al	As	B	Cd	Fe	Li	Mn	Mo	Na	Se	Sn	Sr	W		
10/14/93	6.74	876	56	0.83	18	16.4	0.51	93	NM	0.07	0.1	59	<0.01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
04/13/94	7.33	1,553	55	0.45	22	34.1	1.55	574	NM	0.08	1.0	131	<0.01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
10/06/94	9.79	9,550	72	0.04	254	130.5	26	2,758	NM	0.14	3.4	2,190	0.01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
04/18/95	7.77	2,250	53	1.24	48	22.5	6.45	734	NM	0.04	0.8	491	<0.01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
10/11/95	7.15	4,000	61	0.70	99	40.0	4.95	1,363	NM	0.08	0.7	669	<0.01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
04/11/96	7.83	1,296	56	0.98	22	25.0	0.9	226	NM	0.08	0.1	158	<0.01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
10/28/96	7.04	1,783	57	0.26	64	5.5	1.7	405	NM	0.03	0.1	142	<0.01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
04/25/97	7.06	1,375	59	0.08	20	17.1	1.24	300	NM	0.14	0.1	106	<0.01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
10/20/97	7.37	2,010	58	0.40	52	16.0	1.89	563	NM	0.26	1.7	242	<0.01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
03/26/98	7.34	1,277	55	0.22	25	20.3	0.81	347	NM	0.48	0.1	114	<0.01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
10/13/98	7.07	1,383	58	0.21	208	7.4	1.06	255	NM	0.71	0.0	67	<0.01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
03/25/99	7.06	1,256	52	0.21	12	18.4	0.89	449	NM	0.14	0.0	68	0.01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
10/14/99	8.45	3,600	57	0.15	77	27.0	6.97	1,480	NM	0.07	9.6	710	0.03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
04/13/00	8.94	3,800	55	0.65	90	30.7	10.5	1,288	NM	0.22	4.0	1,095	0.03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
10/20/00	8.93	5,020	60	0.19	121	47.9	13.4	1,500	NM	0.05	1.0	1,085	0.01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
04/20/01	8.35	3,300	55	0.19	73	22.4	3.96	1,260	NM	<0.03	9.2	525	0.03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
10/03/01	7.98	4,060	59	0.73	122	27.9	5.66	1,735	NM	<0.03	4.5	713	<0.01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
04/18/02	7.88	2,960	59	0.77	56	16.2	4.41	1,053	NM	<0.03	6.4	445	<0.02	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
10/15/02	7.91	3,300	59	0.57	43	29.7	4.76	1,425	NM	0.03	4.3	563	<0.01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
04/15/03	7.66	2,620	52	0.31	72	20.7	3.20	902	NM	0.36	6.5	412	0.06	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
10/08/03	7.42	2,670	60	0.10	72	15.3	1.90	1,152	NM	1.85	16.0	196	0.02	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
04/26/04	7.26	484	55	0.08	90	38.3	0.50	105	NM	1.03	1.6	13	0.01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
10/21/04	7.96	3,900	56	<0.05	85	22.1	5.03	1,491	NM	0.10	6.7	676	0.03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
04/26/05	7.23	2,280	51	0.30	19	22.0	2.08	77	NM	0.06	12.0	197	0.08	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
10/05/05	7.52	428	64	0.98	11	52.8	1.88	53	NM	0.07	1.2	53	<0.01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
04/26/06	8.15	2,510	51	1.52	116	22.3	2.94	1,346	NM	0.33	26.0	288	0.05	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
10/10/06	7.52	3,240	56	1.12	179	30.7	3.74	1,581	NM	<0.03	20.0	395	0.09	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
04/17/07	7.08	2,250	52	0.40	800	14.4	1.73	800	NM	0.40	0.1	172	0.01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
10/10/07	7.75	6,470	59	0.13	222	31.1	6.26	3,038	NM	<0.03	38.0	1,015	0.06	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
04/23/08	7.55	1,856	54	0.79	48	21.9	1.03	762	NM	0.03	16	210	0.05	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
10/14/08	7.84	6,600	56	0.94	72	24.6	9.62	1,942	NM	<0.05	5.8	1,090	0.02	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
04/24/09	7.48	2,200	52	0.79	51	17.3	2.86	2,284	NM	<0.05	0.5	288	<0.01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
10/20/09	7.04	2,738	60	0.51	61	17.0	2.14	1,312	NM	<0.20	11.0	262	0.04	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
04/14/10	7.28	2,384	55	0.60	66	16.3	2.36	804	NM	<0.05	8.4	266	<0.05	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
10/07/10	7.77	3,362	61	0.49	75	22.6	3.19	1,655	NM	<0.04	8.2	455	<0.06	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
04/13/11	6.95	2,296	53	0.62	53	19.1	1.59	1,100	NM	<0.45	6.7	264	<0.09	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
10/06/11	8.72	7,483	58	0.56	223	49.8	10.50	3,450	NM	<0.04	18.0	1,835	<0.06	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
04/12/12	8.33	4,746	51	1.50	110	37.7	6.03	2,042	NM	<0.06	12.0	945	<0.24	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
10/10/12	7.82	3,759	52	0.17	145	30.5	2.54	2,098	NM	<0.04	21.0	404	<0.64	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
04/25/13	7.45	2,629	50	0.31	37	24.5	2.83	1,066	NM	<0.03	10.0	305	<0.43	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
10/09/13	9.11	8,987	57	0.35	224	68.5	16.50	3,150	NM	<0.07	13.0	2,354	<0.11	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
4/10/2014	7.34	1,708	49	0.23	33	19.0	1.70	573	NM	<0.03	2.5	167	<0.20	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
10/07/14	7.46	3,433	58	0.45	62	30.0	4.46	1,397	NM	<0.05	7.4	690	<0.62	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
4/16/2014	8.37	3,324	51	0.32	44	26.0	4.48	1,100	NM	<0.18	NM	NM	NM	<0.1	0.02	0.05	0.001	2.8	0.01	2.2	5.9	620	0.26	<0.1	0.38	13		
10/13/2015	8.99	5,530	58	<0.05	85	94.0	7.60	2,200	NM	<0.06	NM	NM	NM	<0.1	0.02	0.13	<0.02	1.2	<0.01	0.22	15	1200	0.20	<0.1	0.36	23		
5/25/2016	NM	NM	NM	0.20	61	23.0	6.00	1,700	NM	<0.02	NM	NM	NM	<0.1	0.03	0.21	<0.02	0.8	0.01	0.7	14.0	700	1.00	<0.1	0.54	13		
10/11/2016	8.91	6,079	61	0.19	89	49.0	8.92	2,300	2.0	<0.02	NM	NM	NM	<0.1	0.05	<1.0	<0.02	0.09	<0.01	0.02	12	1500	0.87	<0.1	0.34	31		
4/11/2017	8.28	2,674	64	<0.05	29	29.0	NM	1,100	3.0	<0.02	NM	NM	NM	NM														