



Union Milling Company

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4 June 2022

Division of Reclamation, Mining and Safety
Room 215, c/o Lucas West
1001 E. 62nd Avenue
Denver, CO 80216
303-866-3567 x8187
Lucus.West@state.co.us

RE: 2023 Annual Report, M1990-057 Leadville Mill

Dear Mr. West,

The Annual Report for mine permit M-1990-057 is filed, as well as the payment of \$518.00. The 110d Annual Report Form has been electronically submitted along with our Annual Fee Invoice and the Report is completed, signed and included with this documentation.

This annual report addresses the activities conducted on site from the previous period - June 4, 2022 to June 3, 2023 - and also addresses the proposed activities for the upcoming period from June 4, 2023 to June 3, 2024.

CJK re-submitted a 112(d)-permit application, having redrawn the previous application. This application is under review. CJK met in person with DRMS staff to discuss this application. CJK understands that it will receive comments on this application in late June, 2023.

UMC will SOO the permit to CJK Milling Company, LLC upon the issuance of the new permit.

If you have additional questions or need additional information, please contact me at 303-947-3499 or nmichael@unionmilling.com.

Sincerely,

Nick Michael
Member

attachments

Annual Report

The 110(d) Annual Report Form has been electronically submitted along with our Annual Fee Invoice and the CDRMS Report Request is completed, signed and included with this documentation.

Property

Permit M-1990-057 includes the Leadville Mill. The permit operator is:

Union Milling Company, LLC (UMC)
P. O. Box 620490
Littleton, CO 80162-0490
nmichael@unionmilling.com

The Leadville Mill is located in the Northeast Quarter of the Northeast Quarter of Section 33, and the Southeast Quarter of the Southeast Quarter of Section 28, Township 9 South, Range 80 West. The county designated address is 13815 Highway 24, Lake County, Colorado. The owner of the Leadville Mill is:

CJK Milling Company LLC
33084 Bergen Mountain Rd.
Evergreen, CO 80439
gknippa@msn.com

Activities: June 4, 2022 to June 3, 2023

The mill remained idle, on care and maintenance status, with no production or milling occurring in the last 12-month period.

The Leadville Mill activities for the past 12 months are presented below.

1. Groundwater Quality Sampling. As required for the 112(d)-permit application currently under review by CDRMS, additional water monitoring wells, as well as water testing, has been implemented.

Six (6) wells, 2 upgradient, 2 downgradient, and 2 on-site wells are sampled. An additional upgradient well (MA1TMW-4) has been identified as a future up-gradient well for the proposed Filtered Tailings Deposit (FTD), and may be suitable for future monitoring. Monitoring well information is summarized in **Table 1**.

CJK has permission to access and sample all wells. However, CJK reports the Access Agreement with Lake County as "Pending". CJK has reached an agreement with Lake County, however, the signed agreement has not been provided to CJK as of the date of this report. CJK has conditional permission to access wells BMW-1 and PZ-4 until the signed document is received.

Monitoring well locations are shown in **Figure 1**.

As of this annual report, one (1) Quarter of data has been collected. These data, along with historic water data, are provided in **Exhibit 1**.

Table 1: Monitoring Well Information

Parameter	On-Site Leadville Mill		Up-Gradient		Down-Gradient		Up-Gradient
	LM-MW-2	LM-MW-3	BMW-1	PZ-4	MW13	MW13a	MA1TMW-4
Owner	CJK Milling	CJK Milling	Lake County	Lake County	Cheryl Molleur	Cheryl Molleur	Salem Minerals
Access Agreement	NA	NA	Pending	Pending	Yes	Yes	Yes
Latitude (deg.min.sec)	N 39°13'44.28"	N 39°13'49.62"	N 39°14'43.78"	N 39°14'43.67"	N 39°13'34.90"	N 39°13'34.67"	N 39°14'09.80"
Longitude	W106°20'00.89"	W106°19'53.23"	W106°18'25.94"	W106°18'25.78"	W106°20'31.45"	W106°20'31.73"	W106°19'53.49"
Completion Depth	53	66	1,244	137	100	25	85
Well Diameter (inch)	4	4	2	2	2	2	4
Top of Casing	9,701.0	9,744.0	9,996.7	9,998.0	9,620.5	9,621.2	9,796.0
Ground Elevation	9,698.0	9,741.0	9,995.0	9,996.5	9,619.0	9,619.7	9,794.0
Static Water Elev.	9,650.5	9,683.9	9,978.7	9,897.3	9,594.3	9,600.2	9,718.3
Static Water Level	50.5	60.1	18.0	100.7	26.3	21.0	77.7
Set Pump Below SWL	2.5	5.9	50.0	20.0	22.3	8.5	4.0
Pump Elevation	9,648.0	9,678.0	9,928.7	9,877.3	9,572.0	9,591.7	9,714.3
Depth - top of casing	53.0	66.0	68.0	120.7	48.5	29.5	81.7
Sampling Method	Pump	Pump	Pump	Pump	Pump	Pump	Pump

Figure 1: Monitoring Well Locations



2. Surface Water Quality Sampling. Quarterly surface water quality sampling from three stations, SW-1 through SW-3 could not be performed due to insufficient stream flows to collect samples during the summer, fall, winter and spring sampling periods.

Our stormwater permit with CDPHE requires we sample upgradient streams. For the Leadville Mill (and AVS Project) this is California Gulch. CJK has collected its first sample, however these data are not yet available from our water lab (Eurofins). These data will be shared with CDRMS in future reports.

3. ECS Construction. The originally permitted TSF is now proposed to be the Emergency Containment Sump (ESC) in the 112(d) permit application. Only care and maintenance activities were performed in the past year.
4. Signage. Permanent mill permit identification signs (metal-style) were maintained on the main gate to the facility and on the mill building, identifying the UMC and our permit number.
5. Fencing. The barbed wire property boundary fence was repaired in various areas where it was broken by wildlife. Fence maintenance is required by our Lake County Conditional Use Permit.
6. Permit Boundary. Permit boundary stakes were maintained as required.
7. Process Plant Activity. There was no construction activity at the Process Plant.
8. Sediment Control. Sediment control measures during the year included improvements per the stormwater management plan as follows.
 - Rip-rap berms between low grade ore piles #2 and #3 were installed to protect these piles should there be a flow event.
 - The remaining flow channel was rip-raped from low grade ore piles #2 & #3 West and Southwest to the Southeast corner of the ECS.
 - Sedimentation traps just past the South edge of the ECS were constructed, with rock check dams to contain any sediment flow.
 - A diversion berm, armored with rip-rap, was constructed to the Northwest corner of the ECS to alleviate flows down the West edge of the ECS.
 - Silt fence was repaired/replaced with straw wattles as needed around the ECS, and the low-grade ore piles along with the Historic tailings pile.

Additionally, culverts were cleaned, and berms and roads were maintained as required.

9. Ore Stockpiles. Ore and tailings stockpiles remain covered for most of the year as required.

CJK received a complaint that the cover over the temporary tailings was damaged. This damage was caused by wind. This was immediately corrected. The pile was re-shaped to minimize wind damage in the future.

10. Weed Control. Weed control measures were performed as required and according to the weed management plan. Ongoing spraying activities have significantly reduced weeds on the property. Current practice involves walking around property and spraying weeds as required over the June – September growing season.
11. Permitting Activity. UMC submitted a status report to the Lake County Commissioners as required by our Conditional Use Permit (CUP).
12. Reclamation/Bond. No permanent reclamation occurred at the mill in the last 12 month period. Additional interim stabilization activities continued within existing disturbed areas.

An Irrevocable Letter of Credit remains in place for \$64,430 from the Bank of Colorado of Yuma, CO for the Leadville Mill bond.

Anticipated Activities: June 4, 2023 to June 3, 2024

Activity at the site will continue throughout the summer focusing on permissible activities. 112(d) permit activities will commence after the permit is approved. Work will continue year-round, weather permitting. All activity, as described below will be within the currently permitted disturbance area. The **Figure 1 Map** is submitted showing the current disturbance outline and major proposed activities within the current disturbance area.

UMC's planned activities for the year will include:

Environmental & Permit Activities:

- Expanded stakeholder engagement
- Continue Ground- and Surface-water monitoring activity as required
- Continue routine care and maintenance activities as required by our 110(d) and Lake County CUP permits
- Address Adequacy Responses of re-submitted 112(d) permit application. CJK will work to complete these by the February 2024 permit application deadline.
- Prepare and submit the CUP with Lake County

Engineering and Construction Activities:

- Soil sampling and characterization, as required for the FTD
- Tailings characterization, as required for the FTD
- New tailings management plan
- Metallurgical testing to optimize process flowsheet
- Construct new fine ore bin inside existing mill building, with a new TR under our 110(d) permit.
- Construct crusher circuit, includes a building permit from Lake County. This is approved in current 110(d) and County CUP. However only after a detailed plan is submitted and approved by the Division. This submittal will be accompanied with an updated map showing the proposed activities.

Work Upon Approval of 112(d) Permit and CUP

- Install leach tank pad and leach tanks
- Construct Au/Ag recovery circuit
- Initiate mill startup. This assumes that Penn Mine Conditional Use Permit is obtained from Lake County, and all other permits to operate are granted.
- Initiate removal of the sulfidic ore in the temporary ore stockpiles within 60 days of resumption of milling operations

Exhibit 1: Water Quality

FIELD MEASUREMENTS

GROUND WATER TEST RESULTS

Period	Sample Date	Units	Time Sampled	Water Depth (ft)	Outside Temp (°C)	Water Temp (°C)	Resistivity (mst/cm)	Dissolved Oxygen (%)	Dissolved Oxygen mg/L	pH	pH (mV)	ORP	Pressure (mmHg)
LM-MW2 MILL SITE													
2022-Q4	29-Dec-22	-	4:00pm	50.5	6	5.98	0.979	163.6	6.40	7.57	28.3	(20.3)	21.6
2023-Q1	16-Jan-23	-	1:48pm	50.7	(4)	-	-	-	-	-	-	-	-
2023-Q2	-	-	-	-	-	-	-	-	-	-	-	-	-
2023-Q3	-	-	-	-	-	-	-	-	-	-	-	-	-
2023-Q4	-	-	-	-	-	-	-	-	-	-	-	-	-
2024-Q1	-	-	-	-	-	-	-	-	-	-	-	-	-
2024-Q2	-	-	-	-	-	-	-	-	-	-	-	-	-
2024-Q3	-	-	-	-	-	-	-	-	-	-	-	-	-
2024-Q4	-	-	-	-	-	-	-	-	-	-	-	-	-
LM-MW3 MILL SITE													
2022-Q4	29-Dec-22	-	3:24pm	63.3	6	6.34	0.874	8.3	7.90	6.63	33.1	11.3	-
2023-Q1	16-Jan-23	-	1:25pm	62.3	(4)	6.99	0.467	67.3	8.71	7.06	(1.9)	87.0	522.8
2023-Q2	-	-	-	-	-	-	-	-	-	-	-	-	-
2023-Q3	-	-	-	-	-	-	-	-	-	-	-	-	-
2023-Q4	-	-	-	-	-	-	-	-	-	-	-	-	-
2024-Q1	-	-	-	-	-	-	-	-	-	-	-	-	-
2024-Q2	-	-	-	-	-	-	-	-	-	-	-	-	-
2024-Q3	-	-	-	-	-	-	-	-	-	-	-	-	-
2024-Q4	-	-	-	-	-	-	-	-	-	-	-	-	-
BMW-1 UPGRADIENT BACKGROUND													
2022-Q4	29-Dec-22	-	2:45pm	19.9	6	6.92	0.204	no stable	7.29	6.48	135.0	(83.1)	-
2023-Q1	16-Jan-23	-	2:34pm	17.9	(3)	7.40	0.147	27.6	3.28	9.62	(143.3)	120.2	517.8
2023-Q2	-	-	-	-	-	-	-	-	-	-	-	-	-
2023-Q3	-	-	-	-	-	-	-	-	-	-	-	-	-
2023-Q4	-	-	-	-	-	-	-	-	-	-	-	-	-
2024-Q1	-	-	-	-	-	-	-	-	-	-	-	-	-
2024-Q2	-	-	-	-	-	-	-	-	-	-	-	-	-
2024-Q3	-	-	-	-	-	-	-	-	-	-	-	-	-
2024-Q4	-	-	-	-	-	-	-	-	-	-	-	-	-
PZ-4 UPGRADIENT BACKGROUND (aka BMW-1A)													
2022-Q4(3)	08-Jan-23	-	-	-	-	-	-	-	-	-	-	-	-
2023-Q1	16-Jan-23	-	3:47pm	102.3	(3)	5.44	0.314	71.1	8.91	8.37	(73.8)	18.3	518.5
2023-Q2	-	-	-	-	-	-	-	-	-	-	-	-	-
2023-Q3	-	-	-	-	-	-	-	-	-	-	-	-	-
2023-Q4	-	-	-	-	-	-	-	-	-	-	-	-	-
2024-Q1	-	-	-	-	-	-	-	-	-	-	-	-	-
2024-Q2	-	-	-	-	-	-	-	-	-	-	-	-	-
2024-Q3	-	-	-	-	-	-	-	-	-	-	-	-	-
2024-Q4	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-13 DOWN GRADIENT BACKGROUND													
2022-Q4	29-Dec-22	-	12:37pm	26.3	(8)	6.70	1.050	66.7	8.09	7.91	(49.1)	127.1	5.8
2023-Q1	16-Jan-23	-	12:27pm	24.1	(4)	8.10	0.877	54.4	6.41	7.80	(43.0)	143.0	625.4
2023-Q2	-	-	-	-	-	-	-	-	-	-	-	-	-
2023-Q3	-	-	-	-	-	-	-	-	-	-	-	-	-
2023-Q4	-	-	-	-	-	-	-	-	-	-	-	-	-
2024-Q1	-	-	-	-	-	-	-	-	-	-	-	-	-
2024-Q2	-	-	-	-	-	-	-	-	-	-	-	-	-
2024-Q3	-	-	-	-	-	-	-	-	-	-	-	-	-
2024-Q4	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-13A DOWN GRADIENT BACKGROUND													
2022-Q4	29-Dec-22	-	1:30pm	21.0	(8)	7.30	no stable	69.0	6.60	no stable	no stable	no stable	-
2023-Q1	16-Jan-23	-	12:57pm	20.0	(4)	7.05	1.144	40.0	4.75	6.57	25.1	244.0	525.6
2023-Q2	-	-	-	-	-	-	-	-	-	-	-	-	-
2023-Q3	-	-	-	-	-	-	-	-	-	-	-	-	-
2023-Q4	-	-	-	-	-	-	-	-	-	-	-	-	-
2024-Q1	-	-	-	-	-	-	-	-	-	-	-	-	-
2024-Q2	-	-	-	-	-	-	-	-	-	-	-	-	-
2024-Q3	-	-	-	-	-	-	-	-	-	-	-	-	-
2024-Q4	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes: (1) A "0" value denotes NOT DETECTABLE laboratory result, (2) A "blank" cell in the table denotes no data collected, (3) Pump failed on 29-Dec on well PZ-4. Sample collected using bailer.

EPA 200.7 REV 4.4 - METALS (ICP) - TOTAL RECOVERABLE

Period	Sample Date	Units	Aluminum (Al)	Boron (B)	Calcium (Ca)	Iron (Fe)	Sodium (Na)
LM-MW2 MILL SITE							
2022-Q4	29-Dec-22	ug/L	400	0	130,000	26,000	23,000
2023-Q1	16-Jan-23	ug/L	Dry well				
2023-Q2		ug/L					
2023-Q3		ug/L					
2023-Q4		ug/L					
2024-Q1		ug/L					
2024-Q2		ug/L					
2024-Q3		ug/L					
2024-Q4		ug/L					
LM-MW3 MILL SITE							
2022-Q4	29-Dec-22	ug/L	710	0	110,000	3,400	19,000
2023-Q1	16-Jan-23	ug/L	260	0	110,000	6,100	18,000
2023-Q2		ug/L					
2023-Q3		ug/L					
2023-Q4		ug/L					
2024-Q1		ug/L					
2024-Q2		ug/L					
2024-Q3		ug/L					
2024-Q4		ug/L					
BMW-1 UPGRADIENT BACKGROUND							
2022-Q4	29-Dec-22	ug/L	0	0	6,900	0	31,000
2023-Q1	16-Jan-23	ug/L	0	0	7,100	0	30,000
2023-Q2		ug/L					
2023-Q3		ug/L					
2023-Q4		ug/L					
2024-Q1		ug/L					
2024-Q2		ug/L					
2024-Q3		ug/L					
2024-Q4		ug/L					
PZ-4 UPGRADIENT BACKGROUND (aka BMW-1A)							
2022-Q4(3)	08-Jan-23	ug/L	13,000	0	110,000	12,000	6,300
2023-Q1	16-Jan-23	ug/L	36,000	0	120,000	38,000	7,000
2023-Q2		ug/L					
2023-Q3		ug/L					
2023-Q4		ug/L					
2024-Q1		ug/L					
2024-Q2		ug/L					
2024-Q3		ug/L					
2024-Q4		ug/L					
MW-13 DOWN GRADIENT BACKGROUND							
2022-Q4	29-Dec-22	ug/L	7,000	0	150,000	11,000	13,000
2023-Q1	16-Jan-23	ug/L	1,100	0	150,000	1,600	13,000
2023-Q2		ug/L					
2023-Q3		ug/L					
2023-Q4		ug/L					
2024-Q1		ug/L					
2024-Q2		ug/L					
2024-Q3		ug/L					
2024-Q4		ug/L					
MW-13A DOWN GRADIENT BACKGROUND							
2022-Q4	29-Dec-22	ug/L	11,000	0	150,000	4,900	16,000
2023-Q1	16-Jan-23	ug/L	2,000	0	140,000	690	16,000
2023-Q2		ug/L					
2023-Q3		ug/L					
2023-Q4		ug/L					
2024-Q1		ug/L					
2024-Q2		ug/L					
2024-Q3		ug/L					
2024-Q4		ug/L					

Notes: (1) A "0" value denotes NOT DETECTABLE laboratory result, (2) A "blank" cell in the table denotes no data collected, (3) Pump failed on 29-Dec on well PZ-4. Sample collected using bailer.

EPA 200.8 REV 4.4 - METALS (ICP/MS) - TOTAL RECOVERABLE

Period	Sample Date	Units	Antimony (Sb)	Arsenic (As)	Barium (Ba)	Beryllium (Be)	Cadmium (Cd)	Chromium (Cr)	Cobalt (Co)	Lead (Pb)	Manganese (Mn)	Molybdenum (Mo)	Nickel (Ni)	Selenium (Se)	Silver (Ag)	Thallium (Tl)	Uranium (U)	Vanadium(V)	Zinc (Zn)
LM-MW2 MILL SITE																			
2022-Q4	29-Dec-22	ug/L	0.0	0.0	29.0	0.0	0.0	110.0	0.0	0.0	120.0	0.0	2.9	0.0	0.0	0.0	11.0	0.0	23.0
2023-Q1	16-Jan-23	ug/L	Dry Well																
2023-Q2		ug/L																	
2023-Q3		ug/L																	
2023-Q4		ug/L																	
2024-Q1		ug/L																	
2024-Q2		ug/L																	
2024-Q3		ug/L																	
2024-Q4		ug/L																	
LM-MW3 MILL SITE																			
2022-Q4	29-Dec-22	ug/L	0.0	0.0	50.0	0.0	0.0	0.0	0.0	13.0	45.0	0.0	3.2	0.0	0.0	0.0	5.8	0.0	280.0
2023-Q1	16-Jan-23	ug/L	0.0	0.0	45.0	0.0	0.0	0.0	0.0	17.0	40.0	0.0	3.2	0.0	0.0	0.0	6.2	0.0	300.0
2023-Q2		ug/L																	
2023-Q3		ug/L																	
2023-Q4		ug/L																	
2024-Q1		ug/L																	
2024-Q2		ug/L																	
2024-Q3		ug/L																	
2024-Q4		ug/L																	
BMW-1 UPGRADIENT BACKGROUND																			
2022-Q4	29-Dec-22	ug/L	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	3.2	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2023-Q1	16-Jan-23	ug/L	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	4.8	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2023-Q2		ug/L																	
2023-Q3		ug/L																	
2023-Q4		ug/L																	
2024-Q1		ug/L																	
2024-Q2		ug/L																	
2024-Q3		ug/L																	
2024-Q4		ug/L																	
PZ-4 UPGRADIENT BACKGROUND (aka BMW-1A)																			
2022-Q4(3)	08-Jan-23	ug/L	0.0	0.0	340.0	0.0	0.0	4.0	4.2	20.0	360.0	4.6	4.8	0.0	0.0	0.0	15.0	8.5	53.0
2023-Q1	16-Jan-23	ug/L	0.0	17.0	560.0	1.9	0.0	18.0	8.1	69.0	500.0	2.9	19.0	0.0	0.0	0.0	17.0	30.0	120.0
2023-Q2		ug/L																	
2023-Q3		ug/L																	
2023-Q4		ug/L																	
2024-Q1		ug/L																	
2024-Q2		ug/L																	
2024-Q3		ug/L																	
2024-Q4		ug/L																	
MW-13 DOWN GRADIENT BACKGROUND																			
2022-Q4	29-Dec-22	ug/L	0.0	11.0	140.0	1.2	0.0	17.0	6.1	32.0	330.0	0.0	8.9	6.1	4.6	0.0	14.0	16.0	160.0
2023-Q1	16-Jan-23	ug/L	0.0	0.0	36.0	0.0	0.0	3.2	3.7	3.9	42.0	0.0	0.0	6.0	0.0	0.0	11.0	0.0	24.0
2023-Q2		ug/L																	
2023-Q3		ug/L																	
2023-Q4		ug/L																	
2024-Q1		ug/L																	
2024-Q2		ug/L																	
2024-Q3		ug/L																	
2024-Q4		ug/L																	
MW-13A DOWN GRADIENT BACKGROUND																			
2022-Q4	29-Dec-22	ug/L	0.0	44.0	1,200	6.5	260.0	37.0	27.0	200.0	16,000	3.8	110.0	0.0	3.3	0.0	18.0	58.0	38,000
2023-Q1	16-Jan-23	ug/L	0.0	23.0	740.0	3.0	240.0	16.0	14.0	97.0	#####	2.4	85.0	0.0	1.6	0.0	6.7	27.0	37,000
2023-Q2		ug/L																	
2023-Q3		ug/L																	
2023-Q4		ug/L																	
2024-Q1		ug/L																	
2024-Q2		ug/L																	
2024-Q3		ug/L																	
2024-Q4		ug/L																	

Notes: (1) A "0" value denotes NOT DETECTABLE laboratory result, (2) A "blank" cell in the table denotes no data collected, (3) Pump failed on 29-Dec on well PZ-4.
Sample collected using bailer.

EPA 245.1 - MERCURY (CVAA)

Period	Sample Date	Units	Mercury (Hg)		
LM-MW2 MILL SITE					
2022-Q4	29-Dec-22	ug/L	0		
2023-Q1	16-Jan-23	ug/L	Dry Well		
2023-Q2		ug/L			
2023-Q3		ug/L			
2023-Q4		ug/L			
2024-Q1		ug/L			
2024-Q2		ug/L			
2024-Q3		ug/L			
2024-Q4		ug/L			
LM-MW3 MILL SITE					
2022-Q4	29-Dec-22	ug/L	0		
2023-Q1	16-Jan-23	ug/L	0		
2023-Q2		ug/L			
2023-Q3		ug/L			
2023-Q4		ug/L			
2024-Q1		ug/L			
2024-Q2		ug/L			
2024-Q3		ug/L			
2024-Q4		ug/L			
BMW-1 UPGRADIENT BACKGROUND					
2022-Q4	29-Dec-22	ug/L	0		
2023-Q1	16-Jan-23	ug/L	0		
2023-Q2		ug/L			
2023-Q3		ug/L			
2023-Q4		ug/L			
2024-Q1		ug/L			
2024-Q2		ug/L			
2024-Q3		ug/L			
2024-Q4		ug/L			
PZ-4 UPGRADIENT BACKGROUND (aka BMW-1A)					
2022-Q4(3)	08-Jan-23	ug/L	0		
2023-Q1	16-Jan-23	ug/L	0		
2023-Q2		ug/L			
2023-Q3		ug/L			
2023-Q4		ug/L			
2024-Q1		ug/L			
2024-Q2		ug/L			
2024-Q3		ug/L			
2024-Q4		ug/L			
MW-13 DOWN GRADIENT BACKGROUND					
2022-Q4	29-Dec-22	ug/L	0		
2023-Q1	16-Jan-23	ug/L	0		
2023-Q2		ug/L			
2023-Q3		ug/L			
2023-Q4		ug/L			
2024-Q1		ug/L			
2024-Q2		ug/L			
2024-Q3		ug/L			
2024-Q4		ug/L			
MW-13A DOWN GRADIENT BACKGROUND					
2022-Q4	29-Dec-22	ug/L	0		
2023-Q1	16-Jan-23	ug/L	0		
2023-Q2		ug/L			
2023-Q3		ug/L			
2023-Q4		ug/L			
2024-Q1		ug/L			
2024-Q2		ug/L			
2024-Q3		ug/L			
2024-Q4		ug/L			

Notes: (1) A "0" value denotes NOT DETECTABLE laboratory result, (2) A "blank" cell in the table denotes no data collected, (3) Pump failed on 29-Dec on well PZ-4. Sample collected using bailer.

GENERAL CHEMISTRY

Period	Sample Date	Units	Chloride	Nitrate as N	Flouride	Nitrite as N	Sulfate	Nitrogen Kjeldahl	Nitrate Nitrite as N	Cyanide, Total SW846	Alkalinity	Bicarbonate Alkalinity as CaCO3	Carbonate Alkalinity	Hydroxide Alkalinity	Total Dissolved Solids	Nitrogen, Total (EPA Total)
LM-MW2 MILL SITE																
2022-Q4	29-Dec-22	ug/L	33.0	2.3	0.0	0.0	330.0	0.0	1.9	0.0	190.0	190.0	0.0	0.0	680.0	1.9
2023-Q1	16-Jan-23	ug/L	Dry Well													
2023-Q2		ug/L														
2023-Q3		ug/L														
2023-Q4		ug/L														
2024-Q1		ug/L														
2024-Q2		ug/L														
2024-Q3		ug/L														
2024-Q4		ug/L														
LM-MW3 MILL SITE																
2022-Q4	29-Dec-22	ug/L	23.0	2.7	0.0	0.0	300.0	0.0	5.4	0.0	130.0	130.0	0.0	0.0	620.0	5.4
2023-Q1	16-Jan-23	ug/L	21.0	4.4	0.0	0.0	310.0	0.0	4.8	0.0	130.0	130.0	0.0	0.0	610.0	4.8
2023-Q2		ug/L														
2023-Q3		ug/L														
2023-Q4		ug/L														
2024-Q1		ug/L														
2024-Q2		ug/L														
2024-Q3		ug/L														
2024-Q4		ug/L														
BMW-1 UPGRADIENT BACKGROUND																
2022-Q4	29-Dec-22	ug/L	0.0	0.0	0.0	1.0	15.0	0.0	140.0	0.0	96.0	96.0	0.0	0.0	140.0	0.0
2023-Q1	16-Jan-23	ug/L	0.0	0.0	0.0	0.0	17.0	0.0	0.0	0.0	94.0	94.0	0.0	0.0	130.0	0.0
2023-Q2		ug/L														
2023-Q3		ug/L														
2023-Q4		ug/L														
2024-Q1		ug/L														
2024-Q2		ug/L														
2024-Q3		ug/L														
2024-Q4		ug/L														
PZ-4 UPGRADIENT BACKGROUND (aka BMW-1A)																
2022-Q4(3)	08-Jan-23	ug/L	28.0	3.5	0.0	0.0	85.0	0.0	3.7	0.0	200.0	200.0	0.0	0.0	380.0	
2023-Q1	16-Jan-23	ug/L	26.0	3.8	0.0	0.0	87.0	0.0	3.8	0.0	200.0	200.0	0.0	0.0	410.0	3.8
2023-Q2		ug/L														
2023-Q3		ug/L														
2023-Q4		ug/L														
2024-Q1		ug/L														
2024-Q2		ug/L														
2024-Q3		ug/L														
2024-Q4		ug/L														
MW-13 DOWN GRADIENT BACKGROUND																
2022-Q4	29-Dec-22	ug/L	7.8	2.5	0.0	0.0	440.0	0.0	5.0	0.0	120.0	120.0	0.0	0.0	740.0	5.0
2023-Q1	16-Jan-23	ug/L	8.0	2.3	0.0	0.0	400.0	0.0	5.0	0.0	120.0	120.0	0.0	0.0	760.0	5.0
2023-Q2		ug/L														
2023-Q3		ug/L														
2023-Q4		ug/L														
2024-Q1		ug/L														
2024-Q2		ug/L														
2024-Q3		ug/L														
2024-Q4		ug/L														
MW-13A DOWN GRADIENT BACKGROUND																
2022-Q4	29-Dec-22	ug/L	16.0	4.1	0.0	0.0	620.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	900.0	3.6
2023-Q1	16-Jan-23	ug/L	15.0	3.5	0.0	0.0	650.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	1,000.0	3.5
2023-Q2		ug/L														
2023-Q3		ug/L														
2023-Q4		ug/L														
2024-Q1		ug/L														
2024-Q2		ug/L														
2024-Q3		ug/L														
2024-Q4		ug/L														

Notes: (1) A "0" value denotes NOT DETECTABLE laboratory result, (2) A "blank" cell in the table denotes no data collected, (3) Pump failed on 29-Dec on well PZ-4. Sample collected using bailer.

Table 1: MW-2 (Southwest)

[illegible]

Notes:

- (1) A "0.000" value denotes NOT DETECTABLE laboratory result.
- (2) A "blank" cell in the table denotes no data collected.
- (3) Red letters indicate analyte is above drinking grade.

M1990-057
LEADVILLE MILL
Groundwater Test Results

Table 2: MW-3 (Northeast)

Analyte	Sample Date	Units
Boron (B)		
Iron (Fe)		
Method: 200.7 Rev 4.4 - Metals (ICP) Total Recoverable		
2014		
2014-Q4	16-Dec-14	mg/L
2015		Date not collected
2015-Q1	27-Mar-15	mg/L
2015-Q2	30-May-15	mg/L
2015-Q3	11-Jul-15	mg/L
2015-Q4	05-Oct-15	mg/L
2016		
2016-Q1	25-Jan-16	mg/L
2016-Q2	28-Jun-16	mg/L
2016-Q3	28-Sep-16	mg/L
2016-Q4	30-Oct-16	mg/L
2017		
2017-Q1	27-Mar-17	mg/L
2017-Q2	26-Jun-17	mg/L
2017-Q3	23-Sep-17	mg/L
2017-Q4	04-Dec-17	mg/L
2018		
2018-Q1	24-Mar-18	mg/L
2018-Q2	01-Jun-18	mg/L
2018-Q3	02-Sep-18	mg/L
2018-Q4	15-Oct-18	mg/L
2019		
2019-Q1	25-Mar-19	mg/L
2019-Q2	29-Jun-19	mg/L
2019-Q3	30-Sep-19	mg/L
2019-Q4	08-Nov-19	mg/L
2020		
2020-Q1	28-Mar-20	mg/L
2020-Q2	07-Jun-20	mg/L
2020-Q3	22-Aug-20	mg/L
2020-Q4	12-Oct-20	mg/L
2021		
2021-Q1	27-Mar-21	mg/L
2021-Q2	29-Jun-21	mg/L
2021-Q3	25-Sep-21	mg/L
2021-Q4	03-Dec-21	mg/L
2022		
2022-Q1	29-Mar-22	mg/L
2022-Q2	29-Jun-22	mg/L
2022-Q3	29-Sep-22	mg/L
2022-Q4		mg/L
STATISTICS		
Minimum	mg/L	1.300
Mean	mg/L	12.122
Maximum	mg/L	48.000
Standard Deviation	mg/L	

- (1) A "0.000" value denotes NOT DETECTABLE laboratory result.
- (2) A "blank" cell in the table denotes no data collected.
- (3) Red letters indicate analyte is above drinking grade.

M1990-057
LEADVILLE MILL
Groundwater Test Results

Table 4: MW-2 (Southwest)

Location: N39°13'43" W106°20'00" Elevation 9701ft													
Analyte	Sample Date	Units	Time Sampled	Water Depth (ft/inch)	Outside Temp (°C)	Water Temp (°C)	Resistivity (ms/cm)	Dissolved Oxygen (%)	Dissolved Oxygen (mg/l)	pH	pH (mV)	ORP	Pressure (mmHg)
2020													
2020-Q1	28-Mar-20	-	Measurements not taken										
2020-Q2	07-Jun-20	-	11:44am	54.6	14	14.59	0.399	80.3%	8.21	6.53	-15.6	64.3	530.0
2020-Q3	22-Aug-20	-	11:36am	44.5	21	22.73	0.337	74.2%	6.60	6.41	-17.9	60.0	539.8
2020-Q4	12-Oct-20	-	10:34am	43.8	4	9.17	-	73.3%	8.40	-	-	-	536.9
2021-Q1	27-Mar-21	-	10:28am	45.3	-1	2.61	0.008	59.8%	8.33	7.39	-19.5	182.9	553.5
2021-Q2	29-Jun-21	-	11:00am	44.9	10	17.45	0.125	48.3%	4.71	7.01	1.6	138.1	539.4
2021-Q3	25-Sep-21	-	8:18am	45.2	1	15.89	2.325	48.1%	4.73	6.55	26.6	210.1	539.5
2021-Q4	04-Dec-21	-	10:38am	46.9	4	9.80	1.137	62.2%	7.00	6.67	20.1	326.2	535.3
2022-Q1	29-Mar-22	-	12:30pm	48.6	1	7.71	3.050	56.9%	6.72	6.82	11.3	227.7	215.5
2022-Q2	29-Sep-22	-	2:02pm	50.1	13	14.28	0.019	58.2%	5.98	6.86	8.8	173.2	539.1
2022-Q3		-											
2022-Q4		-											

calibration issue

Table 5: MW-3 (Northeast)

Location: N39°13'43" W106°20'00" Elevation 9744ft													
Analyte	Sample Date	Units	Time Sampled	Water Depth (ft/inch)	Outside Temp (°C)	Water Temp (°C)	Resistivity (ms/cm)	Dissolved Oxygen (%)	Dissolved Oxygen (mg/l)	pH	pH (mV)	ORP	Pressure (mmHg)
2020													
2020-Q1	28-Mar-20	-	Measurements not taken										
2020-Q2	07-Jun-20	-	11:17am	67.7	14	17.00	0.409	86.0%	8.35	6.64	-22.0	58.5	529.6
2020-Q3	22-Aug-20	-	12:03pm	53.1	21	13.56	0.525	68.8%	7.18	-	-	-	593.2
2020-Q4	12-Oct-20	-	10:52am	53.8	4	7.10	0.075	67.0%	8.07	-	-	-	536.4
2021-Q1	27-Mar-21	-	11:17am	55.3	-5	5.33	0.016	50.0%	6.30	7.44	-22.9	160.5	532.7
2021-Q2	29-Jun-21	-	11:18am	54.3	11	-	0.102	48.3%	4.71	7.12	-5.5	126.9	538.7
2021-Q3	25-Sep-21	-	8:36am	56.0	1	10.28	2.287	43.0%	4.79	6.55	26.1	182.3	538.8
2021-Q4	04-Dec-21	-	11:03am	57.7	4	8.63	1.139	59.9%	6.97	6.57	25.0	397.5	534.7
2022-Q1	22-Mar-21	-	1:20pm	59.2	1	7.33	0.075	51.7%	6.22	6.84	9.9	215.5	521.9
2022-Q2	29-Sep-22	-	2:30pm	60.1	13	10.87	0.635	69.0%	7.63	7.00	1.5	147.9	537.9
2022-Q3		-											
2022-Q4		-											

calibration issue

calibration issue

Figure 1 - Map

