

The Union Milling Company P.O. Box 620490

Littleton, CO 80162-0490 +1.303.947.3499

14 June 2018

Dustin Czapla Division of Reclamation, Mining and Safety Department of Natural Resources 1313 Sherman St., Room 215 Denver, CO 80203

RE: 2019 Annual Report, M1990-057 Leadville Mill

Dear Mr. Czapla,

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

No new disturbances have occurred at the Leadville Mill within the past 12 months; and no permanent reclamation activities have occurred at the Leadville Mill site within the past 12 months. No additional surface area disturbances are planned for the Leadville Mill within the next 12 months, and no operating activities are planned for the near-term. A map is submitted with this report showing the current disturbance outline and proposed activities within the current disturbance area.

This annual report addresses the activities conducted in the previous period from June 17, 2018 to June 18, 2019, and also addresses the proposed activities for the upcoming period from June 19, 2019 to June 18, 2020.

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 110d Annual Report Form has been electronically submitted along with our Annual Fee Invoice and CDRMS Report Request is completed, signed and included with this documentation. See Page 6.

Property

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

Union Milling Company, LLC (UMC) Nick Michael, Member P. O. Box 620490 Littleton, CO 80162-0490 303-947-3499

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:

Constructive Investments, LLC Nick Michael, Member PO Box 620490 Littleton, CO 80162-0490

Activities: June 17, 2018 to June 18, 2019

The mill remained idle, on care and maintenance status, with no production or milling occurring in the last 12-month period. Care and maintenance were the only activities that occurred during the past year at the mill.

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

1. <u>Groundwater Quality Sampling</u>. Monitoring wells MW-2 located at approximate coordinates N39°13'44.17", W106°19'59.98"", elevation 9701ft, and MW-3 located at approximate coordinates N39°13'49.87", W106°19'53.61", elevation 9744ft were tested. Locations are shown on the attached map.

Water samples have now been collected and tested for 14 consecutive quarters through Q1 2018. Results are summarized in **Exhibit 1**. In all testing, cyanide was not detected.

- 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. However, sampling of the perched aquifer within the pit was sampled. Results are summarized in Exhibit 1. Note that sampling could not be performed during periods when the TSF was snow covered and the perched aquifer was frozen.
- <u>TSF Construction</u>. Final construction remains delayed, awaiting investor funding. Precious metal prices have stabilized, and while UMC has, and continues to meet with interested investors, no agreements were reached in 2018. We continue to meet with interested parties and are hopeful that we will receive funding to complete the project in 2019. Regardless, it is not likely that funding will occur quickly enough to allow construction activities for the 2019 building season.

- 4. <u>Signage</u>. 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. <u>Fencing</u>. 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. <u>Mill Facility Activity</u>. The mill buildings and equipment were maintained in preparation of reconditioning and restarting the mill.
- 8. <u>Sediment Control</u>. Sediment control measures were performed on an as needed basis (temporary silt fence construction around the ore stockpiles, temporary historic tailings storage, and new tailings storage facility). Additionally, culverts were cleaned, and berms and roads were maintained as required.
- 9. <u>Ore Stockpiles</u>. Ore stockpiles remain covered with visqueen material as a temporary measure to minimize acid generating potential of sulfidic ores. Repairs were made as necessary.
- 10. <u>Weed Control</u>. Weed control measures were performed as required and according to the weed management plan. Identified weed species are Oxeye daisies and Canada thistle. Weeds occur sporadically near access roads, the mill building and the fence bordering the water treatment plant (East side of property). 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).
 - UMC continued to maintain SWMP CDPHE. The APENs expired due to lack of activity at the mill and UMC will renew these permits ahead of construction activity.
- 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 19, 2019 to June 18, 2020

No new disturbances are planned for the Leadville Mill. Construction activities will continue within the existing disturbed area to finish the tailings storage facility. **Figure 6-2** is submitted showing the current disturbance outline and major proposed activities within the current disturbance area.

UMC's planned activities for the year will occur in two phases; Phase 1 associated with environmental and permit-related activities, and Phase 2 work related with construction activities required to initiate mill operations.

Phase 1 – Environmental & Permit Activities:

- 1. Continue Ground- and Surface-water monitoring activity as required.
- 2. Continue routine care and maintenance activities as required by our 110(d) and Lake County CUP permits.
- 3. Renew APENs with CDPHE when required

Phase 2 – Construction Activities:

3

Construction activities are dependent on our ability to raise the capital required to complete and operate the mill. The following activities will occur once funds are in place.

- 1 Mill equipment, replacement and repair summer 2019.
- 2 SWMP application July 2019. (No NPDES)
- 3 APEN and Application for Construction Permit Feb 2020
- 4 MSHA compliance anticipated July 2019.
- 5 TSF reconstruction anticipated completion August 2020.
- 6 Initiate mill startup September 2020.
- 7 Initiate removal of the sulfidic ore in the temporary ore stockpiles within 60 days of resumption of milling operations.
- 8 No additional land will be disturbed; no additional land will be permanently reclaimed. The mill disturbed area will remain at 8.1 acres.

Exhibit 1: Water Quality

EXHIBIT 1 - GROUND WATER TEST RESULTS M1990-057 LEADVILLE MILL

1 IN D IC .

Table 1: MW-2 (Southwest)						-												
Analyte	2014-Q4 16-Dec-	2015-Q1 27-Mar-	2015-Q2 30-May-	2015-Q3 2015-Q4 11-Jul-15 05-Oct-15	2015-Q4	2016-Q1 25-Jan-16	2016-Q2 26-Jun-	2016-Q3 28-Sep-	2016-Q4 30-Oct-16	2017-Q1 27-Mar- 17	2017-Q2 26-Jun- 17	2017-Q3 23-Sep- 17	2017-Q4 4-Dec-17	2018-Q1 24-Mar- 18	2018-Q2 1-Jun-18	2018-Q3 2-Sep-18	2018-Q4 15-Oct-18	2019-Q1 25-Mar- 19
	mg/L	Ē	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Method: 200.8 ICP/MS. Protocol: EPA	tocol: EPA																	
Antimonv	QN	QN	QN	QN	DN			ND		DN	ND	ND	ND	ND	ND	ND	QN	ND
Arsenic	DN	QN	DN	DN	ND			ND		ND	QN	ND	QN	ND	QN	ND	ND	ND
Barium	0.032	0.072	0.110	0.140	0.170	0.100	0.078	0.047	0.080	0	0.036	0.036	0.048	0.062	0.045	0.003	0.038	0.043
Bervllium	DN	DN	QN	ND	QN			ND				ND	DN	ND	QN	DN	ND	ND
Cadmium	0.001	DN	QN	0.001	0.001	0.001	DN	ND				ND	ND	ND	ND	DN	ND	ND
Chromium	0.001	0.048	0.028	0.031	0.039	0.039	0.065	DN				0.052	0.041	0.048	0.009	QN	0.008	0.062
Cohalt	0.001	ND	0.001	0.002	0.002	0.001	0.002	DN				ND	ND	ND	ND	QN	ND	ND
Conner	0.009	0	0.010	0.001	0.002	0.007	0.011	ND	0.006	0.016	0.004	0.016	0.009	0.018	0.007	0.003	0.003	0.019
lead	0.001		0.015	0.002	0.003	0.011	0.008	0.002				0.005	0.005	0.008	0.005	0.001	0.003	0.004
Manganese	060.0		0.300	0.540	0.630	0.330	0.370	0.021				0.100	0.110	0.240	0.170	0.042	0.063	0.210
Molvbdenum	0.005		QN	ND	QN	QN	ND	ND				ND	ND	ND	DN	ND	QN	ND
Nickel	0.005	0	0.005	0.006	0.007	0.004	0.005	DN				0.002	ND	0.003	DN	QN	ND	0.005
Selenium	0.002	ND	ND	ND	QN	DN	ND	DN				ND	ND	ND	ND	QN	ND	ND
Silver	ND	QN	DN	QN	ND	QN	ND	DN				ND	QN	ND	ND	QN	DN	ND
Thallium	QN	QN	ND	QN	QN	ND	ND	DN				QN	ND	QN	ND	DN	QN	ND
Uranium	0.001	0.001	0.001	0.002	0.002	0.001	0.002	0.005				0.002	0.002	0.005	0.004	0.004	0.005	0.008
Vanadium	0.001	ND	ND	0.007	0.006	ND	0.009	ND	ND	DN	ND	ND	ND	ND	ND	QN	QN	0.007
Zinc	0.015	0.048	0.054	0.072	0.095	0.047	0.038	0.011	0.035	0.028	0.015	0.026	0.035	0.046	0.035	0.014	0.022	0.021
Method: 9012A Total and/or Amenable, Protocol: SW846	or Amenabl	le, Protocol	: SW846															
Cyanide	DN	DN	DN	DN	DN	ND	DN	ND	QN	DN	QN	DN	DN	DN	ND	DN	DN	ND
ND = Not Detectable																		

1 of 3 M1990-057_2019Exhibit1GroundwaterResults

EXHIBIT 1 - GROUND WATER TEST RESULTS M1990-057 LEADVILLE MILL

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EXHIBIT 1 - GROUND WATER TEST RESULTS M1990-057 LEADVILLE MILL

Table 3: TSF-Perched Acquifer	luifer										
Analyte		5-Q3 2016-Q4 Sep- 30-Oct-16 16	2017-Q1 27-Mar- 17	2017-Q2 26-Jun- 17	2017-Q3 23-Sep-17	2017-Q4 4-Dec-17	2018-Q1 24-Mar- 18	2018-Q2 1-Jun-18	2018-Q3 2-Sep-18	2018-Q3 2-Sep-18	2019-Q1 25-Mar- 19
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Method: 200.8 ICP/MS, Protocol: EPA	tocol: EPA										
Antimonv	ND	DN		ND	DN			ND	ND	QN	
Arsenic	0.009	0.007		0.010	0.007			0.022	0.085	QN	
Barium	0.270	0.270		0.240	0.290			1.800	6.600	0.180	
Bervllium	0.001	0.001	TSF	ND	QN	TSF	TSF	0.017	0.022	QN	TSF
Cadmium	0.005	0.002	SNOW	0.002	0.005	NONS	SNOW	0.041	0.035	0.001	SNOW
Chromium	0.008	0.007	COVERED	0.011	0.007	COVEREDCOVEREI	COVERED	0.015	0.130	0.003	COVERED
Cohalt	0.004	0.003	NO	0.003	0.005	NO	NO	0.048	0.063	0.002	NO
Conner	0.074	0.025	ACCESS	0.024	0.034	ACCESS	ACCESS	0.270	0.560	0.019	ACCESS
l ead	0.085			0.079	0.089			0.770	1.500	0.033	
Manganese	0.550	0.470		0.360	0.570			14.000	9.600	0.220	
Molvbdenum	DN	QN	-	ND	ND			DN	DN	QN	
Nickel	0.015	0	-	0.012				0.067	0.150	0.008	
Selenium	ND			ND	ND			ND	QN	QN	
Silver	0.004	0.002		0.003	0.002			0.004	0.075	QN	
Thallium	ND	ND		ND	ND			DN	0.003	DN	
Uranium	0.007	0.002	v	0.001	0.002			0.012	0.036	0.001	
Vanadium	0.017	0.011		0.017	0.013			0.066	0.160	0.006	
Zinc	0.290	0.190		0.230	0.340			2.600	4.500	0.120	
Method: 9012A Total and/or Amenable, Protocol: SW846	or Amenab	le, Protoco	I: SW846								
Cvanide	DN	DN	ND	ND	ND			ND	ND	ND	
ND = Not Detectable											

Letter, Annual Fee, Report and Map May 18, 2018 (CDRMS)

