

January 10, 2025

Colorado Division of Reclamation, Mining, and Safety
1313 Sherman St, Rm 215
Denver, CO 80203

Delivered Via Email

RE: Q4 2024 Water Sampling Results
Gold Hill Mill, Permit No. M-1994-117
Cash Mine, Permit No. M-1983-141

To Whom It May Concern

The fourth quarter, 2024 ("Q4/24") water sampling was conducted by Lewis Perkins, Colorado Milling Company, on December 18, 2024.

- **Trace Element & Related Data:** Five monitoring stations were sampled for arsenic, cadmium, manganese, zinc, total dissolved solids ("residue") and sulfate. Analyses were performed by Colorado Analytical Laboratories Inc., based in Denver. Copies of their original laboratory analytical reports are included in this submittal.
- **Other Data:** Water depth, temperature and pH data were gathered in the field during sampling and are included in this submittal.

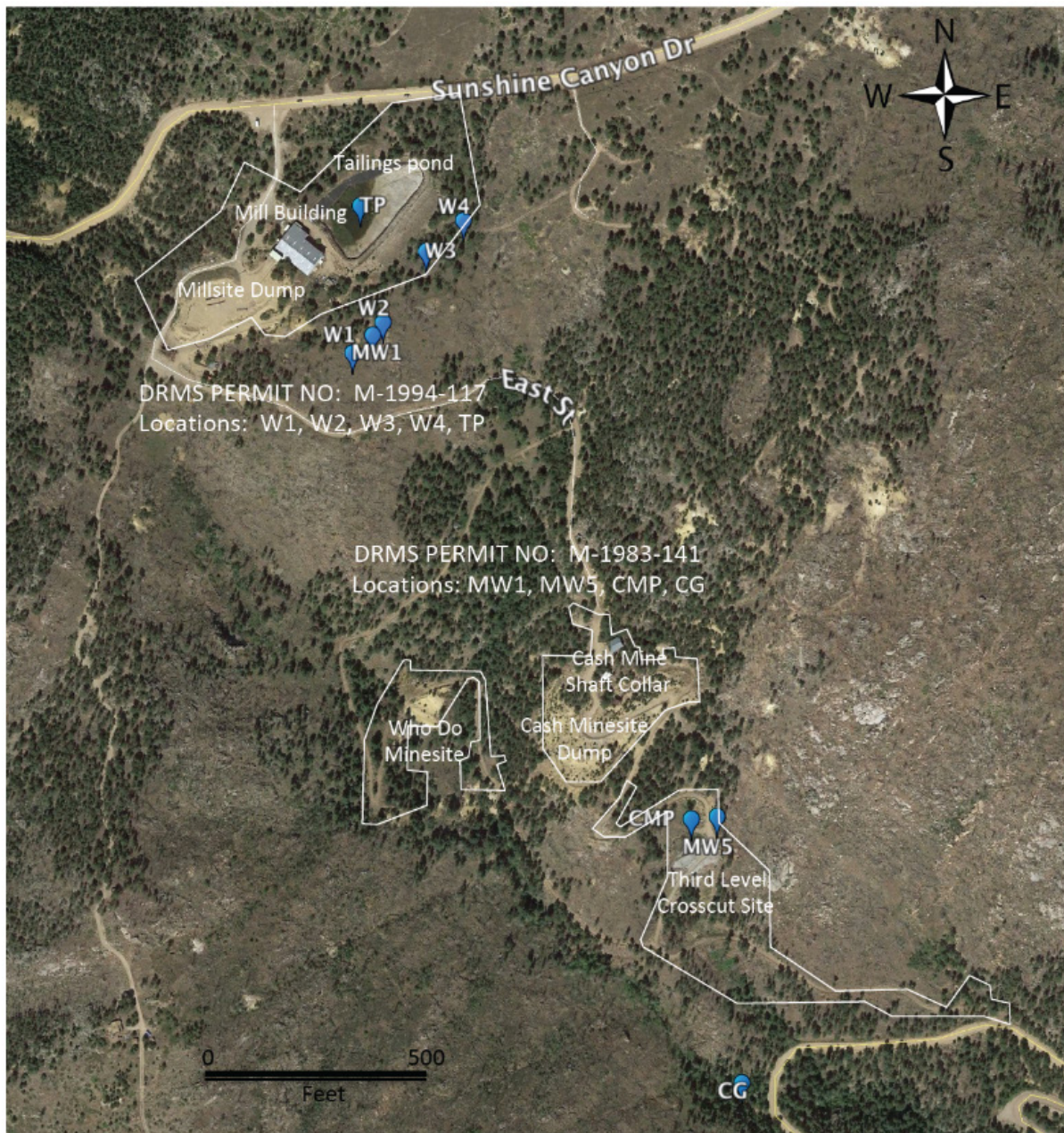
Note that zero values in the summary table represent "non-detect" results.

Please contact me with any questions.

Regards,



Ben Langenfeld, P.E.
Lewicki & Associates, PLLC
(720) 842-5321, ex. 1
benl@lewicki.biz

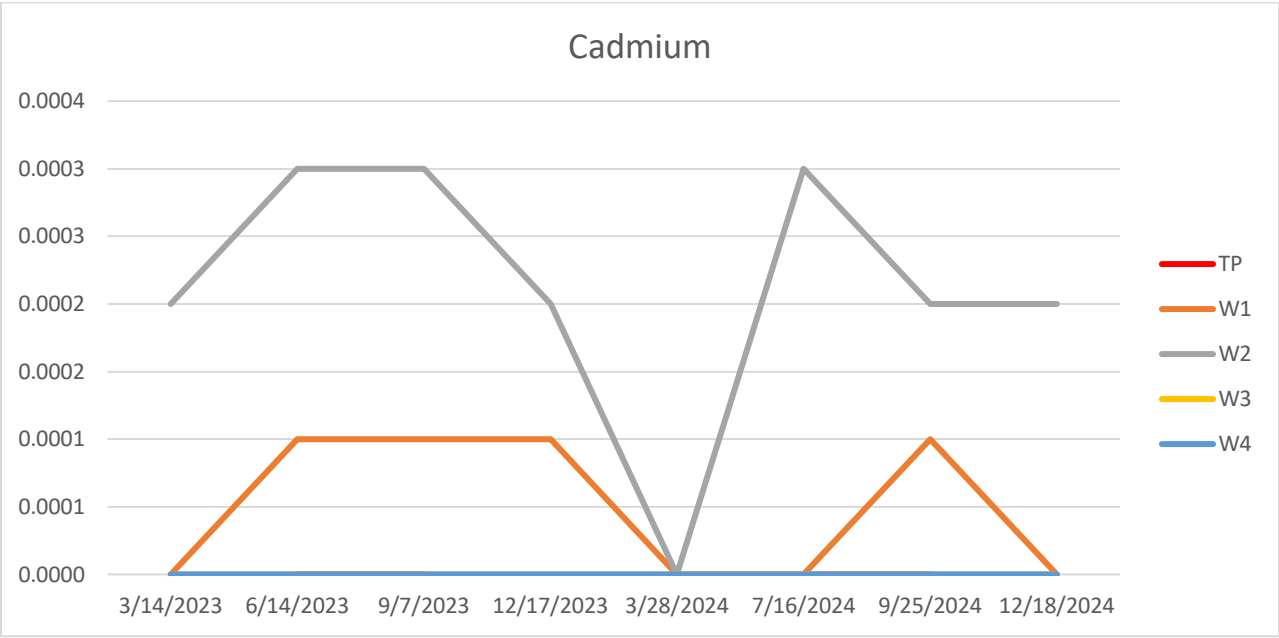
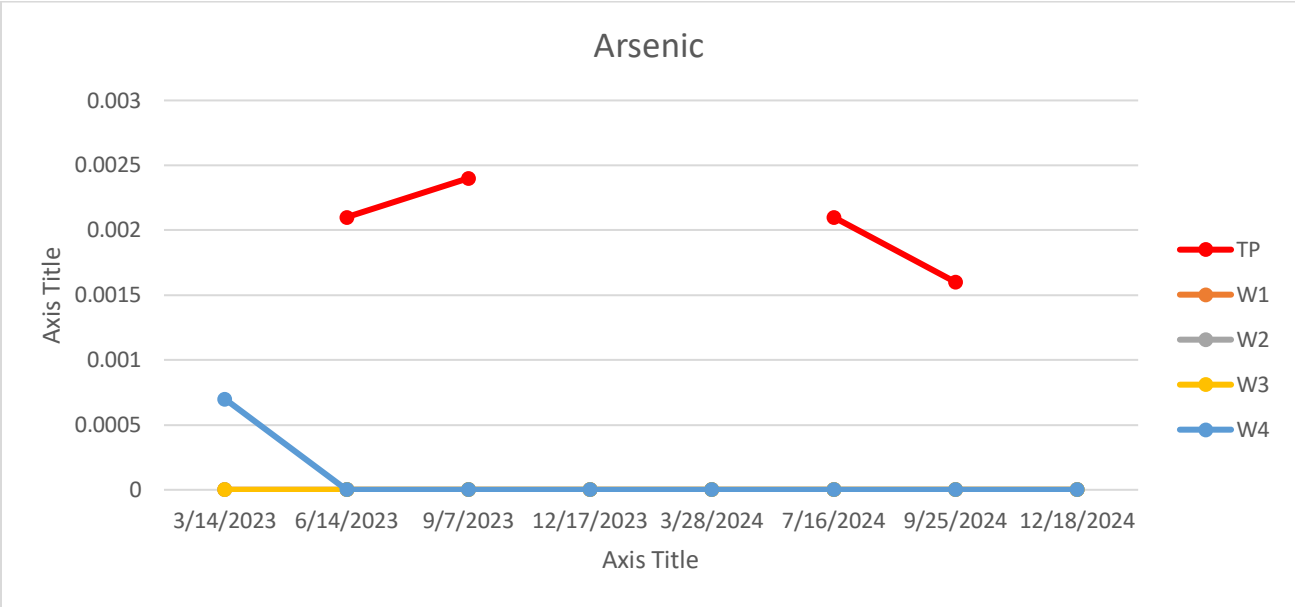


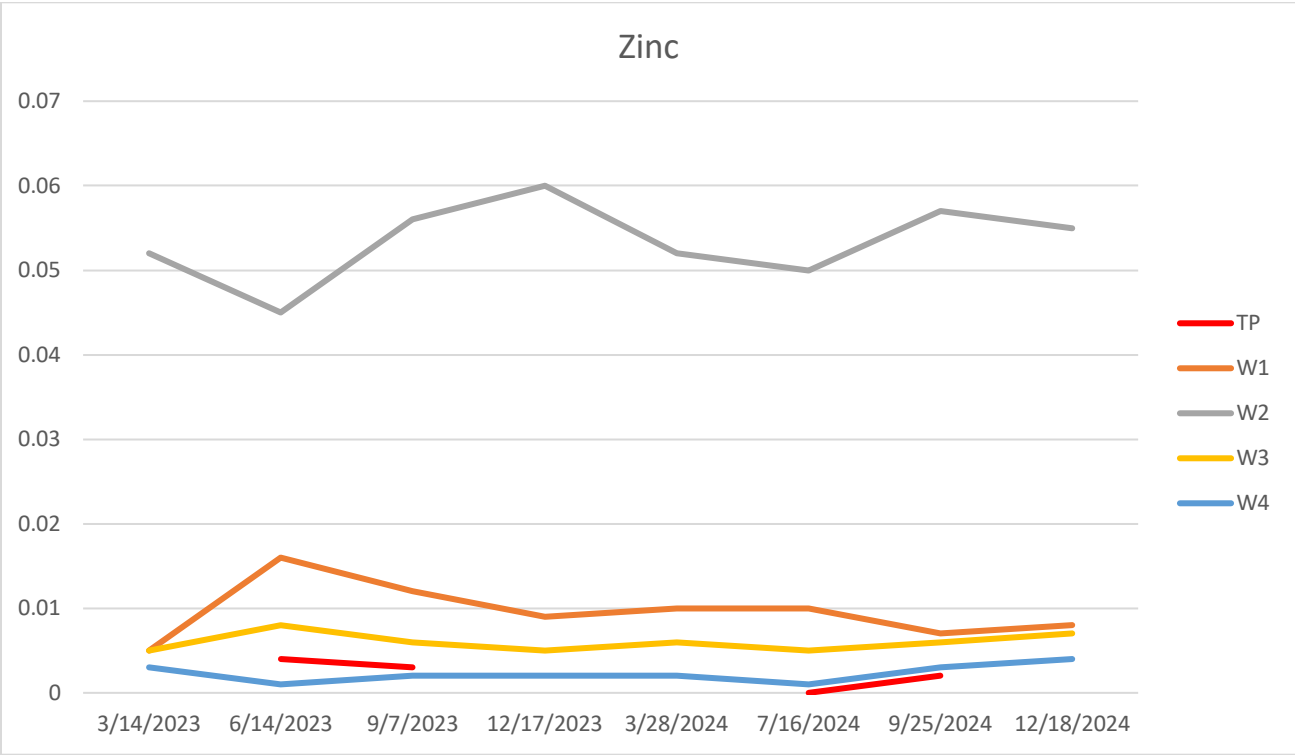
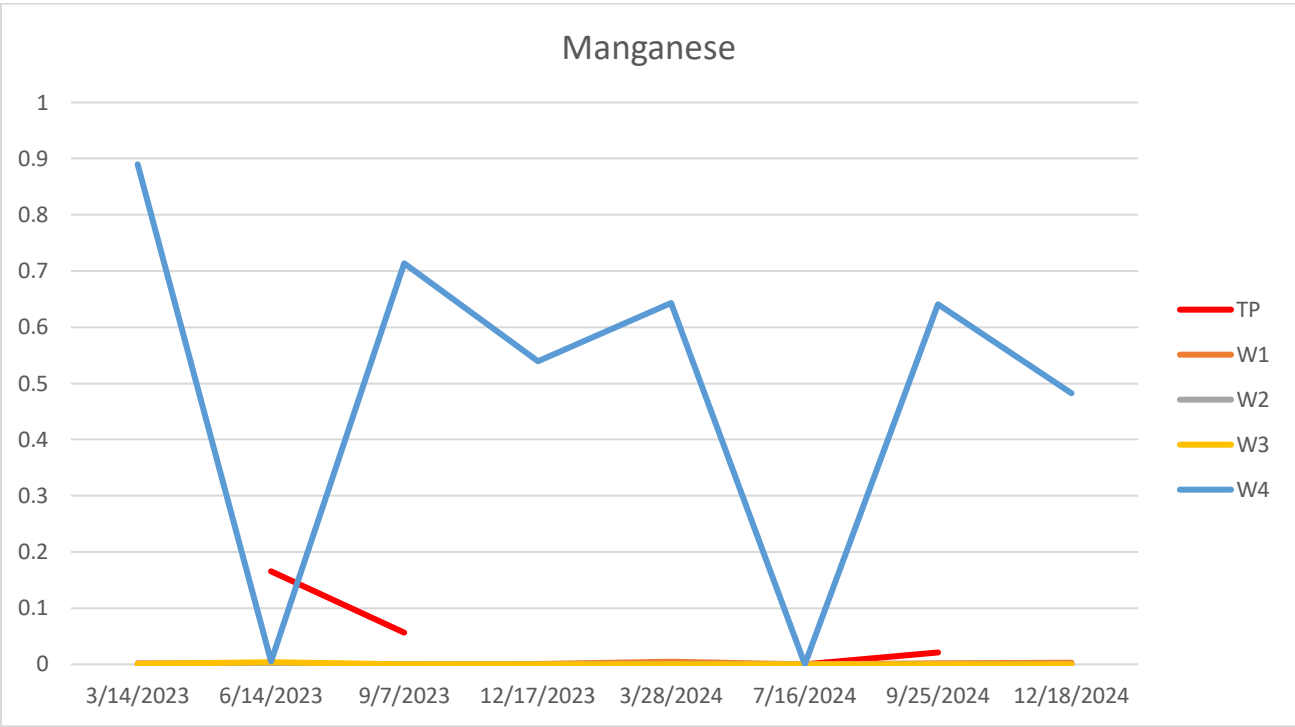
Map showing locations of water monitoring stations for permits M-1994-117 & M-1983-141

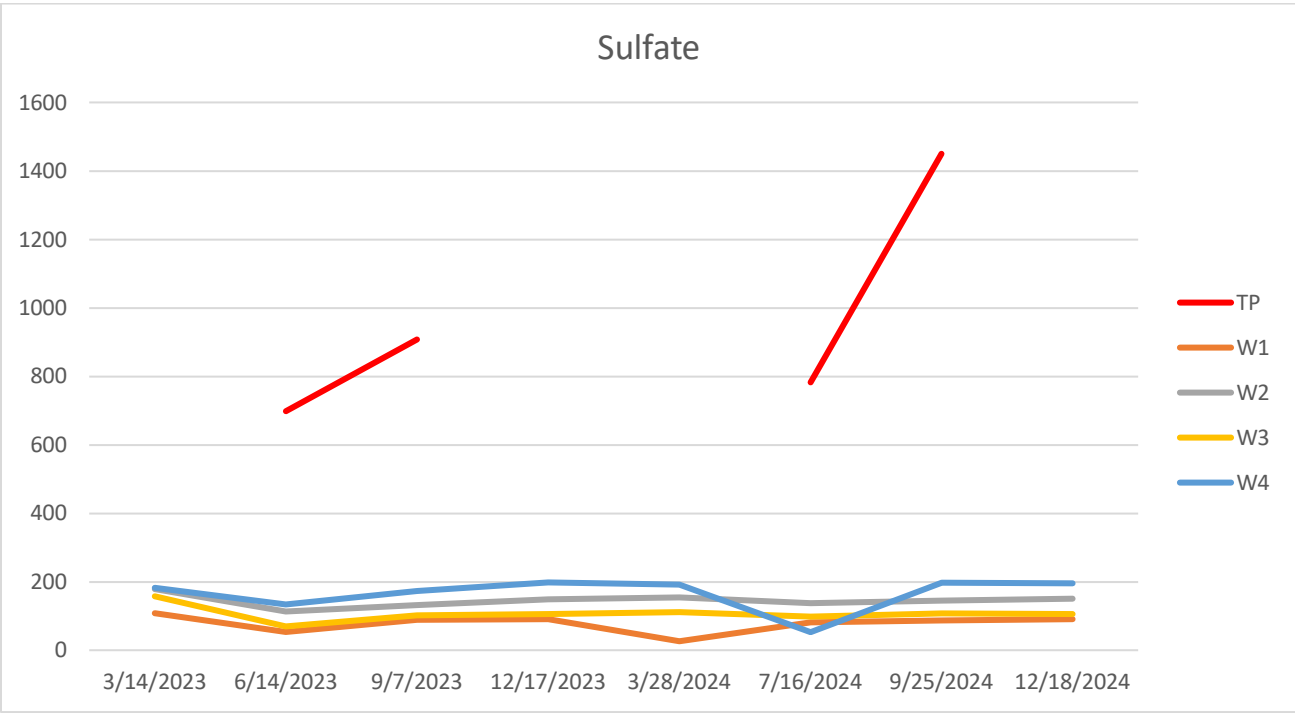
Locations		Well Measurements					Water Analyses (ppm/mg/L)							
Locations ID	Date	Time	Depth	pH	Temp (C)	Conductivity (uS/cm)	Sample ID	Date	As	Cd	Mn	Zn	Residue	Sulfate
Gold Hill Mill M-1994-117														
W-1	12/18/24	10:10	39.8	8.53	6.8	376	241219092	12/18/24	0	0	0.0024	0.008	239	89.9
W-2	12/18/24	10:45	53.01	7.87	6.2	508	241219092	12/18/24	0	0.0002	0	0.055	311	150
W-3	12/18/24	11:25	28.3	7.7	6.6	496	241219092	12/18/24	0	0	0	0.007	295	106
W-4	12/18/24	11:50	33.01	7.4	6.8	795	241219092	12/18/24	0	0	0.4828	0.004	513	195
TP	FROZEN													
Cash Mine M-1983-141														
MW-1	12/18/24	9:35	56.9	9.5	6.5	1557	241219092	12/18/24	0	0	0.3351	0.018	1308	823
MW-5	12/18/24	12:50	11.3	7.6	10.2	902	241219092	12/18/24	0.0008	0	0.2279	0.005	682	336
CG	FROZEN													
CMP	FROZEN													

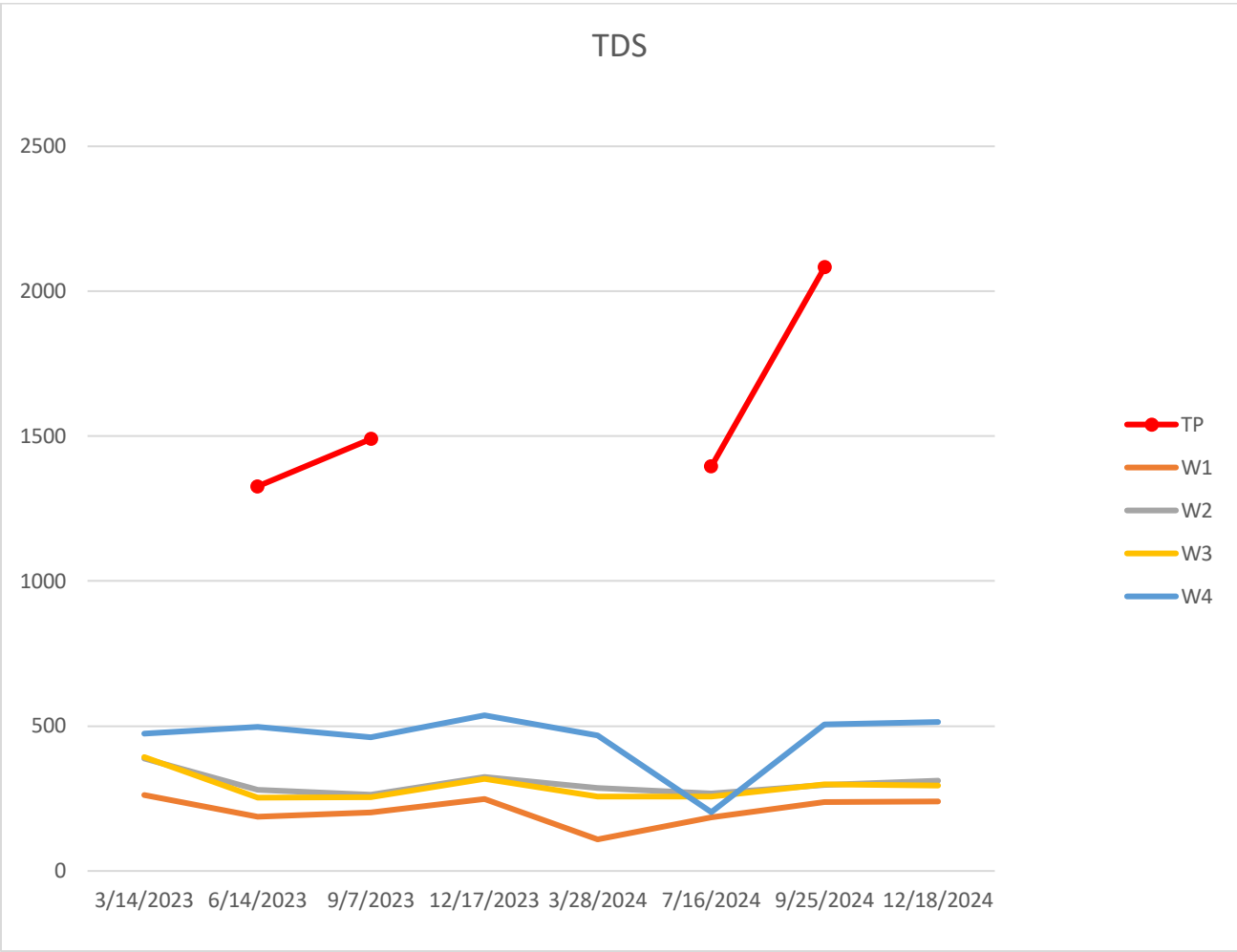
Analytes from lab analysis are dissolved.

Gold Hill Mill Analyte Graphs for the Past Five Quarters

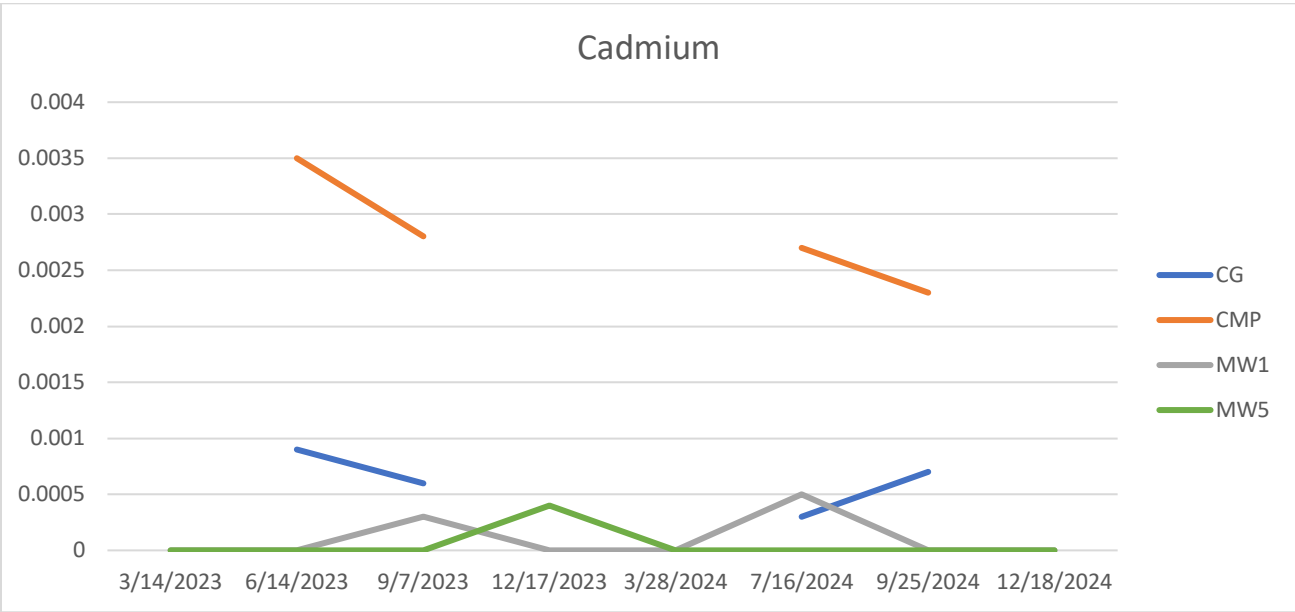
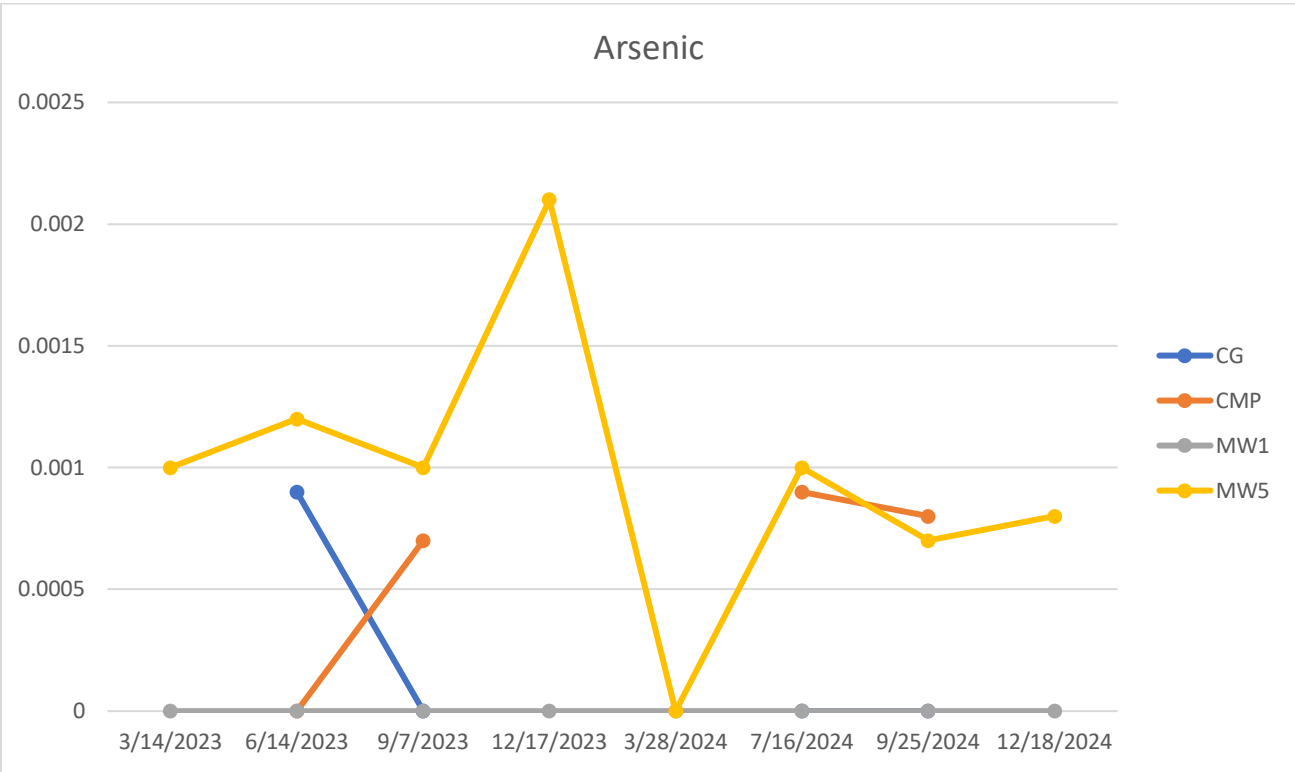


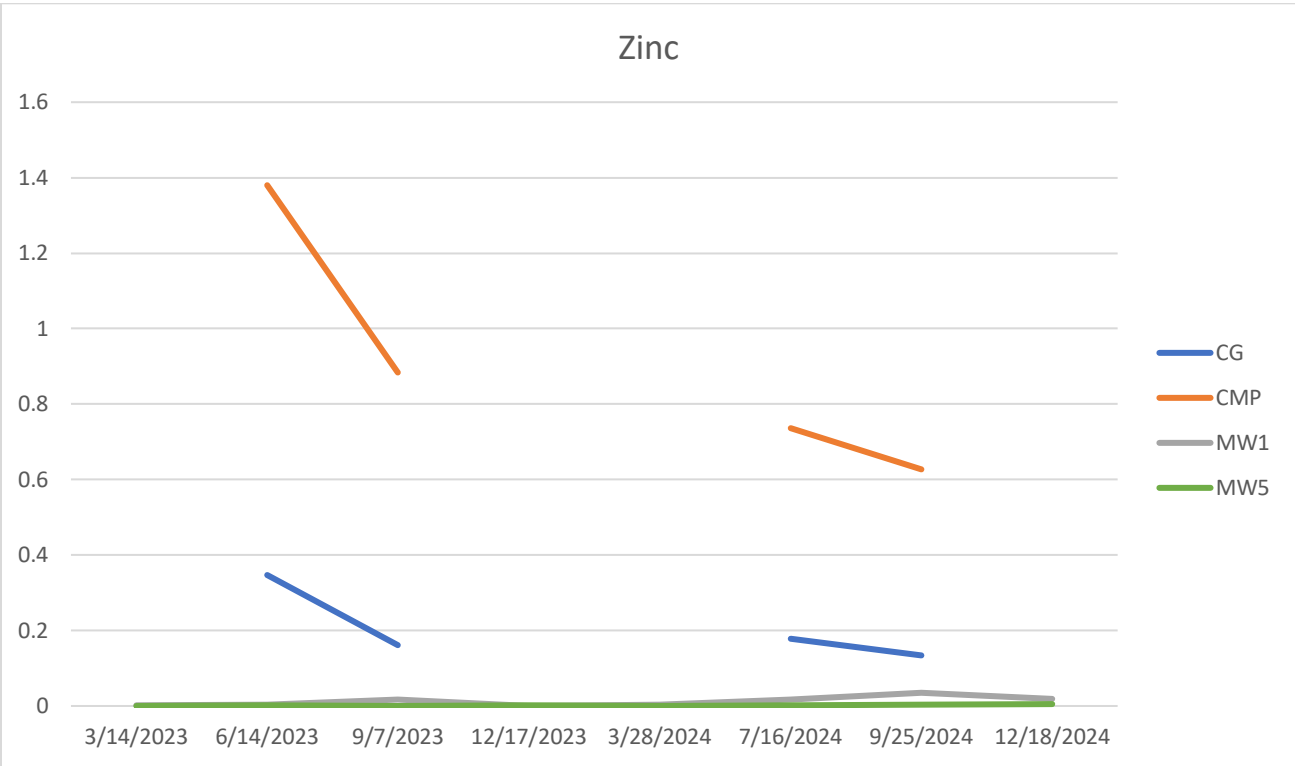
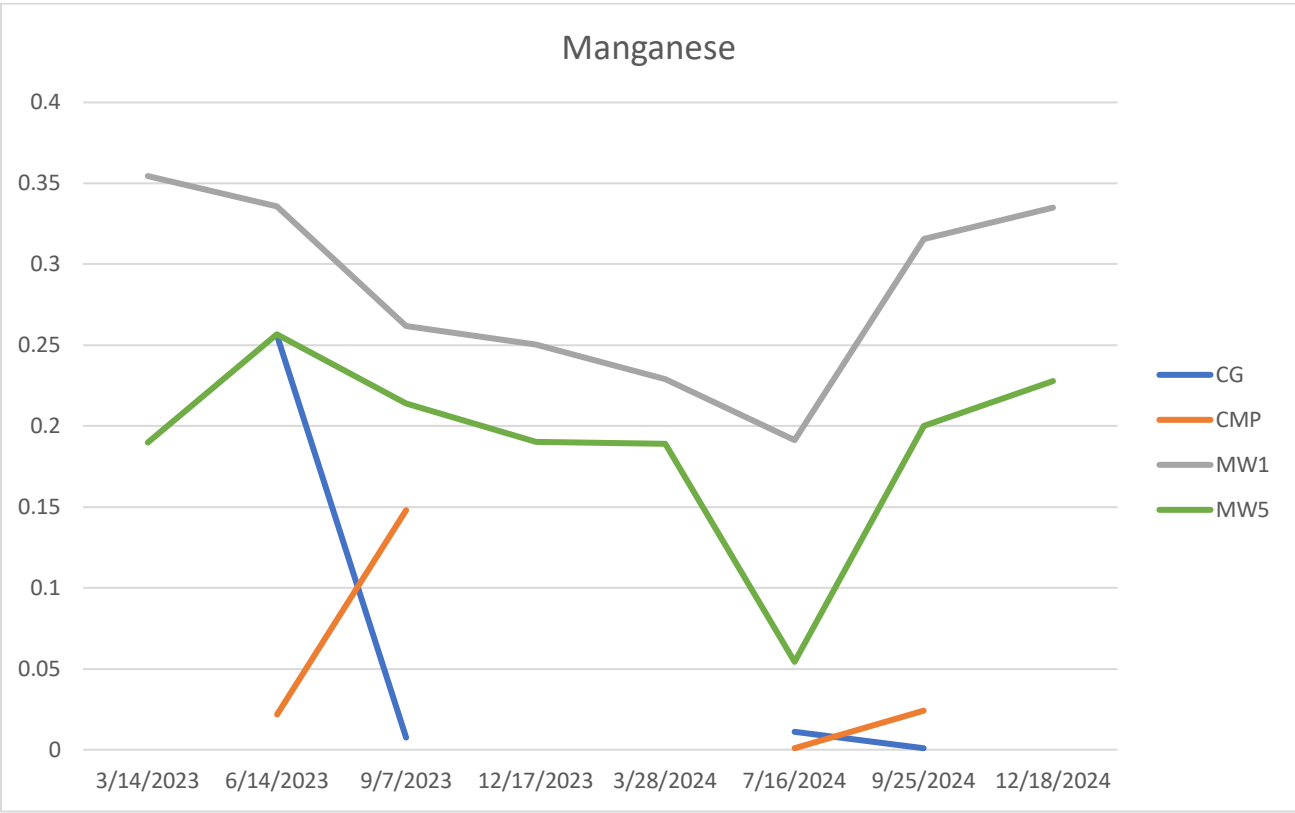






Cash Mine Analyte Graphs for the Past Five Quarters







Analytical Results

TASK NO: 241219092

Report To: Ben Langenfeld
Company: Colorado Milling CO
P.O. Box 99
Moab UT 84532

Bill To: Ben Langenfeld
Company: Colorado Milling CO
P.O. Box 99
Moab UT 84532

Task No.: 241219092
Client PO: Paid CC
Client Project: Gold Hill

Date Received: 12/19/24
Date Reported: 12/31/24
Matrix: Water

Customer Sample ID MW-1
Sample Date/Time: 12/18/24 9:35 AM
Lab Number: 241219092-01

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	823 mg/L	EPA 300.0	1.00	0.012	12/19/24	QC78437	AMJ
Total Dissolved Solids	1308 mg/L	SM 2540-C	5	2	12/24/24	QC78460	ISG
<u>Dissolved</u>							
Arsenic	ND mg/L	EPA 200.8	0.0006	0.00006	12/24/24	QC78416	MBN
Cadmium	ND mg/L	EPA 200.8	0.0001	0.000006	12/24/24	QC78416	MBN
Manganese	0.3351 mg/L	EPA 200.8	0.0008	0.00001	12/24/24	QC78416	MBN
Zinc	0.018 mg/L	EPA 200.8	0.001	0.00003	12/24/24	QC78416	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level
MDL = Method Detection Limit
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ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.
(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

Analytical Results

TASK NO: 241219092

Report To: Ben Langenfeld
Company: Colorado Milling CO
P.O. Box 99
Moab UT 84532

Bill To: Ben Langenfeld
Company: Colorado Milling CO
P.O. Box 99
Moab UT 84532

Task No.: 241219092
Client PO: Paid CC
Client Project: Gold Hill

Date Received: 12/19/24
Date Reported: 12/31/24
Matrix: Water

Customer Sample ID W-1
Sample Date/Time: 12/18/24 10:10 AM
Lab Number: 241219092-02

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	89.9 mg/L	EPA 300.0	1.00	0.012	12/19/24	QC78437	AMJ
Total Dissolved Solids	239 mg/L	SM 2540-C	5	2	12/24/24	QC78460	ISG
<u>Dissolved</u>							
Arsenic	ND mg/L	EPA 200.8	0.0006	0.00006	12/24/24	QC78416	MBN
Cadmium	ND mg/L	EPA 200.8	0.0001	0.000006	12/24/24	QC78416	MBN
Manganese	0.0024 mg/L	EPA 200.8	0.0008	0.00001	12/24/24	QC78416	MBN
Zinc	0.008 mg/L	EPA 200.8	0.001	0.00003	12/24/24	QC78416	MBN

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Date Analyzed = Date Test Completed

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Analytical Results

TASK NO: 241219092

Report To: Ben Langenfeld

Company: Colorado Milling CO
P.O. Box 99
Moab UT 84532

Bill To: Ben Langenfeld

Company: Colorado Milling CO
P.O. Box 99
Moab UT 84532

Task No.: 241219092
Client PO: Paid CC
Client Project: Gold Hill

Date Received: 12/19/24
Date Reported: 12/31/24
Matrix: Water

Customer Sample ID W-2

Sample Date/Time: 12/18/24 10:45 AM

Lab Number: 241219092-03

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	150 mg/L	EPA 300.0	1.00	0.012	12/19/24	QC78437	AMJ
Total Dissolved Solids	311 mg/L	SM 2540-C	5	2	12/24/24	QC78460	ISG
<u>Dissolved</u>							
Arsenic	ND mg/L	EPA 200.8	0.0006	0.00006	12/24/24	QC78416	MBN
Cadmium	0.0002 mg/L	EPA 200.8	0.0001	0.000006	12/24/24	QC78416	MBN
Manganese	ND mg/L	EPA 200.8	0.0008	0.00001	12/24/24	QC78416	MBN
Zinc	0.055 mg/L	EPA 200.8	0.001	0.00003	12/24/24	QC78416	MBN

Abbreviations/ References:

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Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.

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ND = Not Detected at Reporting Limit.

Analytical Results

TASK NO: 241219092

Report To: Ben Langenfeld
Company: Colorado Milling CO
P.O. Box 99
Moab UT 84532

Bill To: Ben Langenfeld
Company: Colorado Milling CO
P.O. Box 99
Moab UT 84532

Task No.: 241219092
Client PO: Paid CC
Client Project: Gold Hill

Date Received: 12/19/24
Date Reported: 12/31/24
Matrix: Water

Customer Sample ID W-3
Sample Date/Time: 12/18/24 11:25 AM
Lab Number: 241219092-04

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	106 mg/L	EPA 300.0	1.00	0.012	12/19/24	QC78437	AMJ
Total Dissolved Solids	295 mg/L	SM 2540-C	5	2	12/24/24	QC78460	ISG
<u>Dissolved</u>							
Arsenic	ND mg/L	EPA 200.8	0.0006	0.00006	12/24/24	QC78416	MBN
Cadmium	ND mg/L	EPA 200.8	0.0001	0.000006	12/24/24	QC78416	MBN
Manganese	ND mg/L	EPA 200.8	0.0008	0.00001	12/24/24	QC78416	MBN
Zinc	0.007 mg/L	EPA 200.8	0.001	0.00003	12/24/24	QC78416	MBN

Abbreviations/ References:

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Date Analyzed = Date Test Completed

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(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

Analytical Results

TASK NO: 241219092

Report To: Ben Langenfeld
Company: Colorado Milling CO
P.O. Box 99
Moab UT 84532

Bill To: Ben Langenfeld
Company: Colorado Milling CO
P.O. Box 99
Moab UT 84532

Task No.: 241219092
Client PO: Paid CC
Client Project: Gold Hill

Date Received: 12/19/24
Date Reported: 12/31/24
Matrix: Water

Customer Sample ID W-4
Sample Date/Time: 12/18/24 11:50 AM
Lab Number: 241219092-05

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	195 mg/L	EPA 300.0	1.00	0.012	12/19/24	QC78437	AMJ
Total Dissolved Solids	513 mg/L	SM 2540-C	5	2	12/24/24	QC78460	ISG
<u>Dissolved</u>							
Arsenic	ND mg/L	EPA 200.8	0.0006	0.00006	12/24/24	QC78416	MBN
Cadmium	ND mg/L	EPA 200.8	0.0001	0.000006	12/24/24	QC78416	MBN
Manganese	0.4828 mg/L	EPA 200.8	0.0008	0.00001	12/24/24	QC78416	MBN
Zinc	0.004 mg/L	EPA 200.8	0.001	0.00003	12/24/24	QC78416	MBN

Abbreviations/ References:

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ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.
(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

Analytical Results

TASK NO: 241219092

Report To: Ben Langenfeld
Company: Colorado Milling CO
P.O. Box 99
Moab UT 84532

Bill To: Ben Langenfeld
Company: Colorado Milling CO
P.O. Box 99
Moab UT 84532

Task No.: 241219092
Client PO: Paid CC
Client Project: Gold Hill

Date Received: 12/19/24
Date Reported: 12/31/24
Matrix: Water

Customer Sample ID MW-5
Sample Date/Time: 12/18/24 12:50 PM
Lab Number: 241219092-06

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	336 mg/L	EPA 300.0	1.00	0.012	12/19/24	QC78437	AMJ
Total Dissolved Solids	682 mg/L	SM 2540-C	5	2	12/24/24	QC78460	ISG
<u>Dissolved</u>							
Arsenic	0.0008 mg/L	EPA 200.8	0.0006	0.00006	12/24/24	QC78416	MBN
Cadmium	ND mg/L	EPA 200.8	0.0001	0.000006	12/24/24	QC78416	MBN
Manganese	0.2279 mg/L	EPA 200.8	0.0008	0.00001	12/24/24	QC78416	MBN
Zinc	0.005 mg/L	EPA 200.8	0.001	0.00003	12/24/24	QC78416	MBN

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Date Analyzed = Date Test Completed

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(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

Analytical QC Summary

TASK NO: 241219092

Report To: Ben Langenfeld
Company: Colorado Milling CO

Receive Date: 12/19/24
Project Name: Gold Hill

Test	QC Batch ID	QC Type	Result	Method	Prep Date
Arsenic	QC78416	Method Blank	ND	EPA 200.8	12/19/24
Cadmium	QC78416	Method Blank	ND	EPA 200.8	12/19/24
Manganese	QC78416	Method Blank	ND	EPA 200.8	12/19/24
Zinc	QC78416	Method Blank	ND	EPA 200.8	12/19/24
Sulfate	QC78437	Blank	ND	EPA 300.0	12/19/24
Total Dissolved Solids	QC78460	Blank	ND	SM 2540-C	12/23/24

Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
Arsenic	QC78416	LCS	90 - 110	97.2	-	EPA 200.8
		MS -241219006-01A	70 - 130	115.6	-	
		MSD -241219006-01A	0 - 10	-	2.2	
Cadmium	QC78416	LCS	90 - 110	96.0	-	EPA 200.8
		MS -241219006-01A	70 - 130	89.5	-	
		MSD -241219006-01A	0 - 10	-	0.1	
Manganese	QC78416	LCS	90 - 110	100.7	-	EPA 200.8
		MS -241219006-01A	70 - 130	75.6	-	
		MSD -241219006-01A	0 - 10	-	1.8	
Zinc	QC78416	LCS	90 - 110	100.7	-	EPA 200.8
		MS -241219006-01A	70 - 130	109.3	-	
		MSD -241219006-01A	0 - 10	-	0.7	
Sulfate	QC78437	Duplicate -241218151-01	0 - 20	-	0.0	EPA 300.0
		LCS	90 - 110	98.3	-	
		MS -241218151-01	75 - 125	97.1	-	
Total Dissolved Solids	QC78460	Duplicate -241219119-08	0 - 10	-	0.2	SM 2540-C
		LCS	85 - 115	97.2	-	

All analyses were performed in accordance with approved methods under the latest revision to 40 CFR Part 136 unless otherwise identified. Based on my inquiry of the person or persons directly responsible for analyzing samples and generating the report (s), the analyses, report, and information submitted are, to the best of my knowledge and belief, true, accurate, and complete.



DATA APPROVED FOR RELEASE BY

Abbreviations/ References:

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ND = Not Detected at Reporting Limit.

Chain of Custody Form



Commerce City Lab

10411 Heinz Way

Commerce City CO 80640

Lakewood Service Center

12860 W. Cedar Dr, Suite 100A

Lakewood CO 80228

Phone: 303-659-2313

www.coloradolab.com

Report To Information			Bill To Information (If different from report to)			Project Name / Number		
Company Name: <u>Colorado Mining Co.</u>			Company Name: _____			<u>Gold Hill - per history</u> <u>12/19/24</u>		
Contact Name: <u>Bern Langenfeld</u>			Contact Name: _____					
Address: <u>Lewicki & associates</u>			Address: _____			Task Number (Lab Use Only) CAL Task 241219092 JML		
City	State	Zip	City	State	Zip			
Phone: <u>303-960-5613</u>			Phone: _____					
Email: <u>Bern1@Lewicki Biz</u>			Email: _____					
Sample Collector: <u>Lewis Perkins</u>			PO No.: _____					
Sample Collector Phone: <u>303-447-8705</u>								

Sample Matrix (Select One Only)			No. of Containers	Grab or (Check One Only) Composite	Tests Requested															
Waste Water <input type="checkbox"/>	Ground Water <input type="checkbox"/>	Surface Water <input type="checkbox"/>			Soil <input type="checkbox"/>	Sludge <input type="checkbox"/>	Drinking Water <input type="checkbox"/>	AS	CD	MN	Zn	Residue/loss	Sulfate							
12/18/24	X	left hand creek (Frozen)																		
"	X	tailings Pond (Frozen)																		
"	9:35 AM	MW-1	2	-		X	X	X	X	X	X									
"	10:10 AM	W-1	2	-		X	X	X	X	X	X									
"	10:45 AM	W-2	2	-		X	X	X	X	X	X									
"	11:25 AM	W-3	2	-		X	X	X	X	X	X									
"	11:50 AM	W-4	2	-		X	X	X	X	X	X									
"	12:50 PM	MW 5	2	-		X	X	X	X	X	X									
"	X	Cash mine Pond (Frozen)																		
"	X	Cash Gulch (Frozen)																		

Instructions: *Test per history on task # 241002045 per customer - 12/19

Paid CC. - JL 12/19/24

C/S Info: _____

Deliver Via: HAUL

Seals Present Yes ☐ No ☒

Temp. 1 °C/Ice y

Sample Pres. Yes ☐ No ☒

Relinquished By:	Date/Time:	Received By:	Date/Time:	Relinquished By:	Date/Time:	Received By:	Date/Time:
<u>Lewis Perkins</u>	<u>12/18/24</u>	_____	_____	_____	_____	<u>AP</u>	<u>12/19/24</u> <u>12/24</u>