

December 14, 2021

Mr. Michael Cunningham & Ms. Amy Eschberger COLORADO DIVISION OF RECLAMATION, MINING & SAFETY Department of Natural Resources 1313 Sherman Street, Room 215 Denver, CO 80203

Subject: Fourth Quarter 2021 Water Sampling Results

Gold Hill Project (Cash Mine Property), Gold Hill, Colorado

Mine Land Reclamation Permit No. M-1994-117

Dear Mr. Cunningham & Ms. Eschberger,

The fourth quarter, 2021 ("Q4/21") water sampling was conducted by Lewis Perkins, Colorado Milling Company, on December 3, 2021.

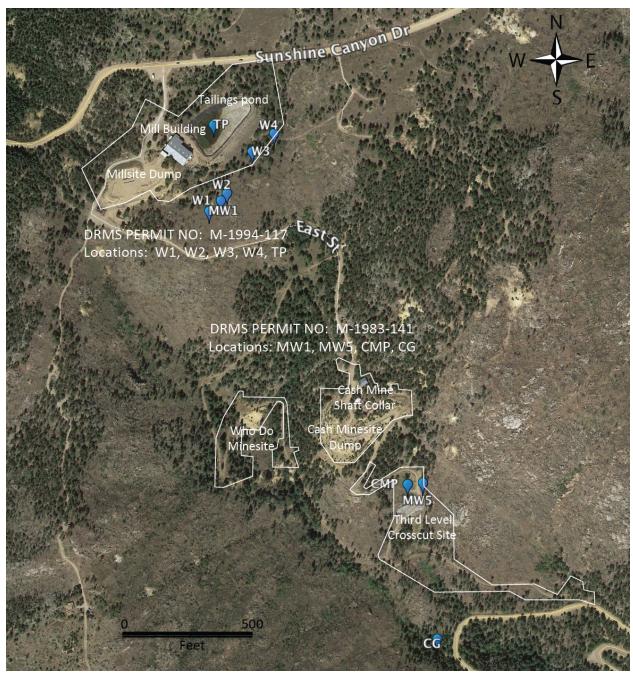
- Trace Element & Related Data: Five monitoring stations were sampled for arsenic, cadmium, manganese, zinc, total dissolved solids ("residue") and sulfate. Analyses were performed by Colorado Analytical Laboratories Inc., based in Denver. Copies of their original laboratory analytical reports are included in this submittal.
- Other Data: Water depth, temperature and pH data were gathered by Perkins and Howard, and recorded along with the aforementioned trace element and related data in an Excel spreadsheet, a copy of which is included in this submittal.

I trust you will find these data to your satisfaction. Please do not hesitate to contact me directly should you have any questions or concerns.

Sincerely,



Avrom E. Howard, MSc, PGeo COLORADO MILLING COMPANY



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

LOCATIONS	LOCATIONS WELL MEASUREMENTS						WATER ANALYSES (ppm)										
LOCATION ID	DATE	TIME	DEPTH (ft)	рН	TEMP (°C)	CONDUCTIVIT Y (uS/cm)	SAMPLE ID	DATE	As	Cd	Mn	Zn	Residue	Sulfate			
W1	12/03/21	13:35	39.79	8.02	9.9	465	211203062-03	12/07/21	ND	0.0001	0.0019	0.030	340	140.73			
W2	12/03/21	13:50	50.25	7.58	9.7	575	211203062-04	12/07/21	ND	0.0004	ND	0.085	368	179.95			
W3	12/03/21	14:15	27.08	7.66	9.2	541	211203062-05	12/07/21	ND	ND	0.0068	0.031	330	122.06			
W4	12/03/21	14:30	31.42	7.36	8.5	668	211203062-01	12/07/21	ND	ND	0.3366	0.034	431	151.66			
TP	12/03/21	12:00	0.00	8.63	8.6	2.82	211203062-06	12/07/21	0.0014	0.0001	0.1249	0.047	2,106	1,206.79			

Complete data set for monitoring stations associated with permit M-1994-117, Q4/2021



TASK NO: 211203062

Report To: Avrom Howard

Company: Colorado Milling CO
72 Brandywine Dr
Williamsville NY 14221

Bill To: Avrom Howard **Company:** Colorado Milling CO
72 Brandywine Dr
Williamsville NY 14221

Task No.: 211203062

Client PO:

Client Project: Gold Hill

Date Received: 12/3/21 Date Reported: 12/10/21

Matrix: Water - Ground

Customer Sample ID Tailings Pond

Sample Date/Time: 12/3/21 12:00 PM

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	1206.79 mg/L	EPA 300.0	0.01 mg/L	12/3/21	QC53731	AMJ
Total Dissolved Solids	2106 mg/L	SM 2540-C	5 mg/L	5 mg/L 12/7/21 QC53742		ISG
Dissolved						
Arsenic	0.0014 mg/L	EPA 200.8	0.0006 mg/L	12/7/21	QC53756	MBN
Cadmium	0.0001 mg/L	EPA 200.8	0.0001 mg/L	12/7/21	QC53756	MBN
Manganese	0.1249 mg/L	EPA 200.8	0.0008 mg/L	12/7/21	QC53756	MBN
Zinc	0.047 mg/L	EPA 200.8	0.001 mg/L	12/7/21	QC53756	MBN



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Task No.: 211203062

Client PO:

Client Project: Gold Hill

Date Received: 12/3/21 Date Reported: 12/10/21

Matrix: Water - Ground

Customer Sample ID MW1

Sample Date/Time: 12/3/21 1:10 PM

Test	Result	Method RL		Date Analyzed	QC Batch ID	Analyzed By
Sulfate	910.68 mg/L	EPA 300.0	0.01 mg/L	12/3/21	QC53731	AMJ
Total Dissolved Solids	1432 mg/L	SM 2540-C	5 mg/L	12/7/21	QC53742	ISG
<u>Dissolved</u>						
Arsenic	ND	EPA 200.8	0.0006 mg/L	12/7/21	QC53756	MBN
Cadmium	ND	EPA 200.8	0.0001 mg/L	12/7/21	QC53756	MBN
Manganese	0.3938 mg/L	EPA 200.8	0.0008 mg/L	12/7/21	QC53756	MBN
Zinc	0.053 mg/L	EPA 200.8	0.001 mg/L	12/7/21	QC53756	MBN



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Task No.: 211203062

Client PO:

Client Project: Gold Hill

Date Received: 12/3/21 Date Reported: 12/10/21

Matrix: Water - Ground

Customer Sample ID W-1

Sample Date/Time: 12/3/21 1:35 PM

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	140.73 mg/L	EPA 300.0	0.01 mg/L	12/3/21	QC53731	AMJ
Total Dissolved Solids	340 mg/L	SM 2540-C	5 mg/L	12/7/21	QC53742	ISG
Dissolved						
Arsenic	ND	EPA 200.8	0.0006 mg/L	12/7/21	QC53756	MBN
Cadmium	0.0001 mg/L	EPA 200.8	0.0001 mg/L	12/7/21	QC53756	MBN
Manganese	0.0019 mg/L	EPA 200.8	0.0008 mg/L	12/7/21	QC53756	MBN
Zinc	0.030 mg/L	EPA 200.8	0.001 mg/L	12/7/21	QC53756	MBN



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Task No.: 211203062

Client PO:

Client Project: Gold Hill

Date Received: 12/3/21 Date Reported: 12/10/21

Matrix: Water - Ground

Customer Sample ID W-2

Sample Date/Time: 12/3/21 1:50 PM

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	179.95 mg/L	EPA 300.0	0.01 mg/L	12/3/21	QC53731	AMJ
Total Dissolved Solids	368 mg/L	SM 2540-C	5 mg/L	12/7/21	QC53742	ISG
Dissolved						
Arsenic	ND	EPA 200.8	0.0006 mg/L	12/7/21	QC53756	MBN
Cadmium	0.0004 mg/L	EPA 200.8	0.0001 mg/L	12/7/21	QC53756	MBN
Manganese	ND	EPA 200.8	0.0008 mg/L	12/7/21	QC53756	MBN
Zinc	0.085 mg/L	EPA 200.8	0.001 mg/L	12/7/21	QC53756	MBN



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Task No.: 211203062

Client PO:

Client Project: Gold Hill

Date Received: 12/3/21 Date Reported: 12/10/21

Matrix: Water - Ground

Customer Sample ID W-3

Sample Date/Time: 12/3/21 2:15 PM **Lab Number:** 211203062-05

Test Result Method Date Analyzed **QC Batch ID** Analyzed By Sulfate 122.06 mg/L EPA 300.0 0.01 mg/L 12/3/21 QC53731 AM.J **Total Dissolved Solids** 330 mg/L SM 2540-C 5 mg/L 12/7/21 QC53742 **ISG** Dissolved ND EPA 200.8 0.0006 mg/L QC53756 MBN Arsenic 12/7/21 Cadmium ND EPA 200.8 0.0001 mg/L 12/7/21 QC53756 MBN Manganese 0.0068 mg/L EPA 200.8 0.0008 mg/L 12/7/21 QC53756 MBN 0.001 mg/L MBN Zinc 0.031 mg/L EPA 200.8 12/7/21 QC53756



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Task No.: 211203062

Client PO:

Client Project: Gold Hill

Date Received: 12/3/21 Date Reported: 12/10/21

Matrix: Water - Ground

Customer Sample ID W-4

Sample Date/Time: 12/3/21 2:30 PM

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	151.66 mg/L	EPA 300.0	0.01 mg/L	12/3/21	QC53731	AMJ
Total Dissolved Solids	431 mg/L	SM 2540-C	5 mg/L	12/7/21	QC53742	ISG
Dissolved						
Arsenic	ND	EPA 200.8	0.0006 mg/L	12/7/21	QC53756	MBN
Cadmium	ND	EPA 200.8	0.0001 mg/L	12/7/21	QC53756	MBN
Manganese	0.3366 mg/L	EPA 200.8	0.0008 mg/L	12/7/21	QC53756	MBN
Zinc	0.034 mg/L	EPA 200.8	0.001 mg/L	12/7/21	QC53756	MBN



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Bill To: Avrom Howard

Company: Colorado Milling CO
72 Brandywine Dr
Williamsville NY 14221

Task No.: 211203062

Client PO:

Client Project: Gold Hill

Date Received: 12/3/21 Date Reported: 12/10/21

Matrix: Water - Ground

Customer Sample ID MW-5

Sample Date/Time: 12/3/21 3:00 PM **Lab Number:** 211203062-07

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	255.10 mg/L	EPA 300.0	0.01 mg/L	12/3/21	QC53731	AMJ
Total Dissolved Solids	668 mg/L	SM 2540-C	5 mg/L	12/7/21	QC53742	ISG
Dissolved						
Arsenic	0.0014 mg/L	EPA 200.8	0.0006 mg/L	12/7/21	QC53756	MBN
Cadmium	ND	EPA 200.8	0.0001 mg/L	12/7/21	QC53756	MBN
Manganese	0.2381 mg/L	EPA 200.8	0.0008 mg/L	12/7/21	QC53756	MBN
Zinc	0.023 mg/L	EPA 200.8	0.001 mg/L	12/7/21	QC53756	MBN



TASK NO: 211203062

Report To: Avrom Howard

Company: Colorado Milling CO
72 Brandywine Dr
Williamsville NY 14221

Bill To: Avrom Howard

Company: Colorado Milling CO
72 Brandywine Dr
Williamsville NY 14221

Task No.: 211203062

Client PO:

Client Project: Gold Hill

Date Received: 12/3/21

Date Reported: 12/10/21

Matrix: Water - Ground

Customer Sample ID

Sample Date/Time: 12/3/21 3:10 PM

Lab Number: 211203062-08

Test Result Method Date Analyzed **QC Batch ID** Analyzed By Sulfate 560.29 mg/L EPA 300.0 0.01 mg/L 12/3/21 QC53731 AM.J **Total Dissolved Solids** 961 mg/L SM 2540-C 5 mg/L 12/7/21 QC53742 **ISG** Dissolved ND EPA 200.8 0.0006 mg/L QC53756 MBN Arsenic 12/7/21 0.0034 mg/L Cadmium EPA 200.8 0.0001 mg/L 12/7/21 QC53756 MBN Manganese 0.2306 mg/L EPA 200.8 0.0008 mg/L 12/7/21 QC53756 MBN 0.001 mg/L MBN Zinc 1.395 mg/L EPA 200.8 12/7/21 QC53756



TASK NO: 211203062

Report To: Avrom Howard

Company: Colorado Milling CO
72 Brandywine Dr
Williamsville NY 14221

Bill To: Avrom Howard **Company:** Colorado Milling CO
72 Brandywine Dr
Williamsville NY 14221

Task No.: 211203062

Client PO:

Client Project: Gold Hill

Date Received: 12/3/21 Date Reported: 12/10/21

Matrix: Water - Ground

Customer Sample ID Cash Gulch

Sample Date/Time: 12/3/21 3:40 PM

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	149.62 mg/L	EPA 300.0	0.01 mg/L	12/3/21	QC53731	AMJ
Total Dissolved Solids	311 mg/L	SM 2540-C	5 mg/L	12/7/21	QC53742	ISG
<u>Dissolved</u>						
Arsenic	ND	EPA 200.8	0.0006 mg/L	12/7/21	QC53756	MBN
Cadmium	0.0005 mg/L	EPA 200.8	0.0001 mg/L	12/7/21	QC53756	MBN
Manganese	0.0136 mg/L	EPA 200.8	0.0008 mg/L	12/7/21	QC53756	MBN
Zinc	0.157 mg/L	EPA 200.8	0.001 mg/L	12/7/21	QC53756	MBN



Analytical QC Summary

TASK NO: 211203062

Report To: Avrom Howard
Company: Colorado Milling CO

Receive Date: 12/3/21
Project Name: Gold Hill

Test	QC Batch ID	QC Type	Result		Method	
Arsenic	QC53756	Method Blank	ND		EPA 200.8	
Cadmium	QC53756	Method Blank	ND		EPA 200.8	
Manganese	QC53756	Method Blank	ND		EPA 200.8	
Zinc	QC53756	Method Blank	ND		EPA 200.8	
Sulfate	QC53731	Blank	ND		EPA 300.0	
Total Dissolved Solids	QC53742	Blank	ND		SM 2540-C	
Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
Arsenic	QC53756	LCS	90 - 110	97.0	-	EPA 200.8
		MS	70 - 130	122.2	-	
		MSD	0 - 10	-	0.7	
Cadmium	QC53756	LCS	90 - 110	94.0	-	EPA 200.8
		MS	70 - 130	111.0	-	
		MSD	0 - 10	-	0.1	
Manganese	QC53756	LCS	90 - 110	101.4	-	EPA 200.8
		MS	70 - 130	99.6	-	
		MSD	0 - 10	-	0.5	
Zinc	QC53756	LCS	90 - 110	97.1	-	EPA 200.8
		MS	70 - 130	128.3	-	
		MSD	0 - 10	-	3.4	
Sulfate	QC53731	Duplicate	0 - 20	-	6.3	EPA 300.0
		LCS	90 - 110	98.2	-	
		MS	75 - 125	97.1	-	
Total Dissolved Solids	QC53742	Duplicate	0 - 20	-	7.7	SM 2540-C
		LCS	85 - 115	100.7	-	

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 the wastewater 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

Chain of Custody Form

Report To Information	Bill To Information (If different from report	t to) Project Name / Number
Company Name: Werado Mulling Co	Company Name: SAWL	Gold Hill
Contact Name: When Howard	Contact Name:	
Address: 72 Brandy wine drive itill City william State Ny Zip 14221	Address:	Task Number (Lab Use Only)
City william State Ny Zip 14221	City State Zip	CAL Task
Phone: 970-234-9757	Phone:	211203062
Email: AEh@ WeBV Consulting Com	Email:	JML
Sample Collector: A,E,H L,S,P	1	,
Sample Collector Phone: 970-234-9757	PO No.:	30



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

Sample Collector P	hone: 9	70-234-0	1757 POI	No.:					_		4,	50			_						
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