

Eschberger - DNR, Amy <amy.eschberger@state.co.us>

water reporting Q3/2020

Avrom Howard <aeh@nebuconsulting.com> To: "Eschberger - DNR, Amy" <amy.eschberger@state.co.us> Wed, Oct 21, 2020 at 2:23 PM

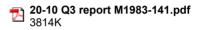
Hi Amy,

Please see the two reports for Q3/2020 attached below. Let me know if they are satisfactory.

Regards,

Avrom

2 attachments







October 21, 2020

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: Third Quarter 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 third quarter, 2020 ("Q3/20") water sampling was conducted by Colorado Milling Company personnel – Lewis Perkins and Avrom Howard, on September 22, 2020.

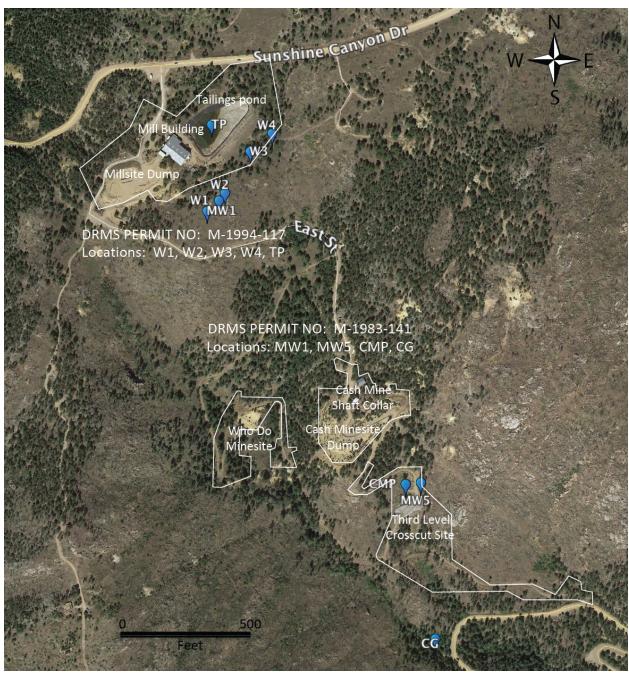
- Trace Element & Related Data: Five monitoring stations were sampled for arsenic, cadmium, manganese, zinc, total dissolved solids ("residue") and sulfate. Analyses were performed by Colorado Analytical Laboratories Inc., based in Denver. Copies of their original laboratory analytical reports are included 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

LOCATION	WELL MEASUREMENTS				WATER ANALYSES (ppm)									
LOCATION ID	DATE	TIME	DEPTH (ft)	рН	TEMP (°C)	CONDUCTIVITY (uS/cm)	SAMPLE ID	DATE	As	Cd	Mn	Zn	Residue	Sulfate
W1	09/22/20	10:20	39.70	7.99	9.7	448	20092120-05	09/29/20	<0.0006	0.0001	0.0016	0.01	305	123.92
W2	09/22/20	10:35	47.50	7.58	9.4	580	20092120-06	09/29/20	<0.0006	0.0003	<0.0008	0.097	431	184.49
W3	09/22/20	10:50	26.95	7.73	9.6	561	20092120-07	09/29/20	<0.0006	<0.0001	0.002	0.004	348	128.66
W4	09/22/20	11:10	31.50	9.90	9.6	604	20092120-08	09/29/20	<0.0006	<0.0001	0.4049	0.003	402	115.20
TP	09/22/20	9:30	-	7.73	16.5	296	20092120-09	09/29/20	0.0015	<0.0001	0.0119	0.002	2,772	1585.58

Complete data set for monitoring stations associated with permit M-1994-117



TASK NO: 200922120

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.: 200922120

Client PO:

Client Project: Gold Hill

Date Received: 9/22/20 Date Reported: 9/29/20

Matrix: Water - Ground

Customer Sample ID W1

Sample Date/Time: 9/22/20 10:20 AM **Lab Number:** 200922120-05

Test Result Method Date Analyzed Analyzed By Sulfate EPA 300.0 0.01 mg/L 9/23/20 MAT 123.92 mg/L **Total Dissolved Solids** 305 mg/L SM 2540-C 5 mg/L 9/25/20 **JTF** Dissolved IPC Arsenic < 0.0006 mg/L EPA 200.8 0.0006 mg/L 9/25/20 Cadmium 0.0001 mg/L IPC EPA 200.8 9/25/20 0.0001 mg/L Manganese 0.0016 mg/L EPA 200.8 0.0008 mg/L 9/25/20 **IPC** Zinc 0.010 mg/L EPA 200.8 0.001 mg/L 9/25/20 **IPC**

Abbreviations/ References:

ML = Minimum Level = LRL = RL
mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed



TASK NO: 200922120

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.: 200922120

Client PO:

Client Project: Gold Hill

Date Received: 9/22/20 Date Reported: 9/29/20

Matrix: Water - Ground

Customer Sample ID W2

Sample Date/Time: 9/22/20 10:35 AM

Lab Number: 200922120-06

Test	Result	Method	ML	Date Analyzed	Analyzed By
Sulfate	184.49 mg/L	EPA 300.0	0.01 mg/L	9/23/20	MAT
Total Dissolved Solids	431 mg/L	SM 2540-C	5 mg/L	9/25/20	JTF
Dissolved					
Arsenic	< 0.0006 mg/L	EPA 200.8	0.0006 mg/L	9/25/20	IPC
Cadmium	0.0003 mg/L	EPA 200.8	0.0001 mg/L	9/25/20	IPC
Manganese	< 0.0008 mg/L	EPA 200.8	0.0008 mg/L	9/25/20	IPC
Zinc	0.097 mg/L	EPA 200.8	0.001 mg/L	9/25/20	IPC

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Date Analyzed = Date Test Completed



TASK NO: 200922120

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.: 200922120

Client PO:

Client Project: Gold Hill

Date Received: 9/22/20 Date Reported: 9/29/20

Matrix: Water - Ground

Customer Sample ID W3

Sample Date/Time: 9/22/20 10:50 AM

Lab Number: 200922120-07

Test	Result	Method	ML	Date Analyzed	Analyzed By
Sulfate	128.66 mg/L	EPA 300.0	0.01 mg/L	9/23/20	MAT
Total Dissolved Solids	348 mg/L	SM 2540-C	5 mg/L	9/25/20	JTF
<u>Dissolved</u>					
Arsenic	< 0.0006 mg/L	EPA 200.8	0.0006 mg/L	9/25/20	IPC
Cadmium	< 0.0001 mg/L	EPA 200.8	0.0001 mg/L	9/25/20	IPC
Manganese	0.0020 mg/L	EPA 200.8	0.0008 mg/L	9/25/20	IPC
Zinc	0.004 mg/L	EPA 200.8	0.001 mg/L	9/25/20	IPC

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TASK NO: 200922120

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.: 200922120

Client PO:

Client Project: Gold Hill

Date Received: 9/22/20 Date Reported: 9/29/20

Matrix: Water - Ground

Customer Sample ID W4

Sample Date/Time: 9/22/20 11:10 AM

Lab Number: 200922120-08

Test	Result	Method	ML	Date Analyzed	Analyzed By
Sulfate	115.20 mg/L	EPA 300.0	0.01 mg/L	9/23/20	MAT
Total Dissolved Solids	402 mg/L	SM 2540-C	5 mg/L	9/25/20	JTF
<u>Dissolved</u>					
Arsenic	< 0.0006 mg/L	EPA 200.8	0.0006 mg/L	9/25/20	IPC
Cadmium	< 0.0001 mg/L	EPA 200.8	0.0001 mg/L	9/25/20	IPC
Manganese	0.4049 mg/L	EPA 200.8	0.0008 mg/L	9/25/20	IPC
Zinc	0.003 mg/L	EPA 200.8	0.001 mg/L	9/25/20	IPC

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Date Analyzed = Date Test Completed



TASK NO: 200922120

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.: 200922120

Client PO:

Client Project: Gold Hill

Date Received: 9/22/20 Date Reported: 9/29/20

Matrix: Water - Ground

Customer Sample ID TP

 Sample Date/Time:
 9/22/20
 9:30 AM

 Lab Number:
 200922120-09

Test	Result	Method	ML	Date Analyzed	Analyzed By
Sulfate	1584.58 mg/L	EPA 300.0	0.01 mg/l	9/23/20	MAT
Total Dissolved Solids	2772 mg/L	SM 2540-C	5 mg/l	9/25/20	JTF
Dissolved					
Arsenic	0.0015 mg/L	EPA 200.8	0.0006 mg/l	9/25/20	IPC
Cadmium	< 0.0001 mg/L	EPA 200.8	0.0001 mg/l	9/25/20	IPC
Manganese	0.0119 mg/L	EPA 200.8	0.0008 mg/l	9/25/20	IPC
Zinc	0.002 mg/L	EPA 200.8	0.001 mg/l	9/25/20	IPC

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