

STATE OF
COLORADO

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

CC&V Response to DRMS Additional Information Required Letter 10-26-2022

Ronald Parratt <Ronald.Parratt@newmont.com>

Wed, Nov 23, 2022 at 3:34 PM

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

Cc: Katie Blake <Katie.Blake@newmont.com>, Norma Townley <Norma.Townley2@newmont.com>

Dear Ms. Eschberger,

Please see the attached response to DRMS letter received by CC&V on October 26, 2022: Additional Information Required, Grassy Valley Surface and Groundwater Monitoring Submittal; Permit No. M-1980-244.

Best Regards,

Ronald Parratt

[Site Water Coordinator](#)[Water & Energy Specialist](#)100 North 3rd Street

Victor, Colorado 80860

[O 719.851.4019](tel:719.851.4019)[M 719.429.8522](tel:719.429.8522)[NEWMONT.COM](http://newmont.com)

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**DRMS Response AIR_Grassy Valley Surface and Groundwater Monitoring Submittal 10-26-22.pdf**

2285K

SENT VIA ELECTRONIC COMMUNICATIONS

November 23, 2022

Ms. Amy Eschberger
Environmental Protection Specialist
Colorado Department of Natural Resources
Division of Reclamation, Mining and Safety
Office of Mined Land Reclamation
1313 Sherman Street, Room 215
Denver, Colorado 80203

RE: Permit No. M-1980-244; Cripple Creek & Victor Gold Mining Company; Cresson Project; Additional Information Required, Grassy Valley Surface and Groundwater Monitoring Submittal, Permit No. M-1980-244

Ms. Eschberger:

Cripple Creek and Victor Gold Mining Company (CC&V) received the Division of Reclamation, Mining, and Safety (DRMS) October 26, 2022 request for additional information pertaining to CC&V's Grassy Valley Surface & Groundwater monitoring submitted on October 24, 2022. CC&V has reviewed the comments issued in the letter dated October 26, 2022 from DRMS and has prepared responses for each comment.. The DRMS comments (*in italics*) and CC&V's corresponding response (**in bold**) are presented below.

1. *Please provide a map that clearly shows each sample location, as required in item 2c.*

As requested, please see the map enclosed as Attachment A.

2. *Please provide the field sheet(s) for each of the sample locations, as required in item 2c.*

As requested, please see the field sheets enclosed as Attachment B.

3. *It does not appear the Operator collected any QA/QC samples as well as requested in item 2c. Please provide the results of the QA/QC samples. If no QA/QC samples were collected, please provide an explanation.*

CC&V continues to collect QA/QC samples, as specified within our monitoring plan, for quarterly sampling. As such, CC&V did not collect additional QA/QC samples of the GVMW-25, GV-06, Seep-1 & Seep-2 monitoring locations during the October 4, 2022 sampling. As requested, CC&V has completed QA/QC samples (one duplicate and one rinse blank) for the collection event of GVMW-25, GV-06, Seep-1 & Seep2 during the November 2022 sample collection.

4. Please compare the sample results for GV-06 to the water quality standards listed for the CDPHE stream classification.

CC&V reviewed the water quality analytical results for the surface water sample GV-06 against the Colorado Regulation 31 and Regulation 32 water quality standards and did not determine any results exceed established regulation standards. This is detailed in the table below.

Parameter	Limit (mg/L)	GV-06 Value (mg/L)	Parameter	Limit (mg/L)	GV-06 Value (mg/L)
pH	6.5 - 9.0	8.17	Copper	0.011	<0.010
Ammonia	7.09	<0.030	Iron	0.3	0.141
Boron	0.75	<0.040	Iron (T)	1	0.141
Chloride	250	8.9	Lead	0.003	<0.0075
Cyanide [free]	0.005	<0.005	Lead (T)	0.05	<0.0075
Nitrate	10	0.101	Manganese	1.78	0.37
Nitrite	0.05	<0.050	Mercury (T)	0.00001	<0.0002
Sulfate	250	48.7	Molybdenum (T)	0.15	<0.0080
Aluminum	11	<0.080	Nickel	0.06	<0.010
Arsenic	0.34	<0.001	Nickel (T)	0.1	<0.010
Arsenic (T)	0.1	<0.001	Selenium	0.0046	<0.001
Cadmium	0.0009	<0.002	Silver	0.0005	<0.005
Cadmium (T)	0.005	<0.002	Uranium	1.94	0.000886
Chromium III	0.09	<0.006	Zinc	0.15	<0.010
Chromium III(T)	0.05	<0.006			

Should the Division require further information please do not hesitate to contact Ronald Parratt at 719-851-4019 or ronald.parratt@Newmont.com or me at 719-851-4042 or Katie.Blake@newmont.com.

Sincerely, 

Katie Blake
Sustainability and External Relations Manager
Cripple Creek & Victor Mine

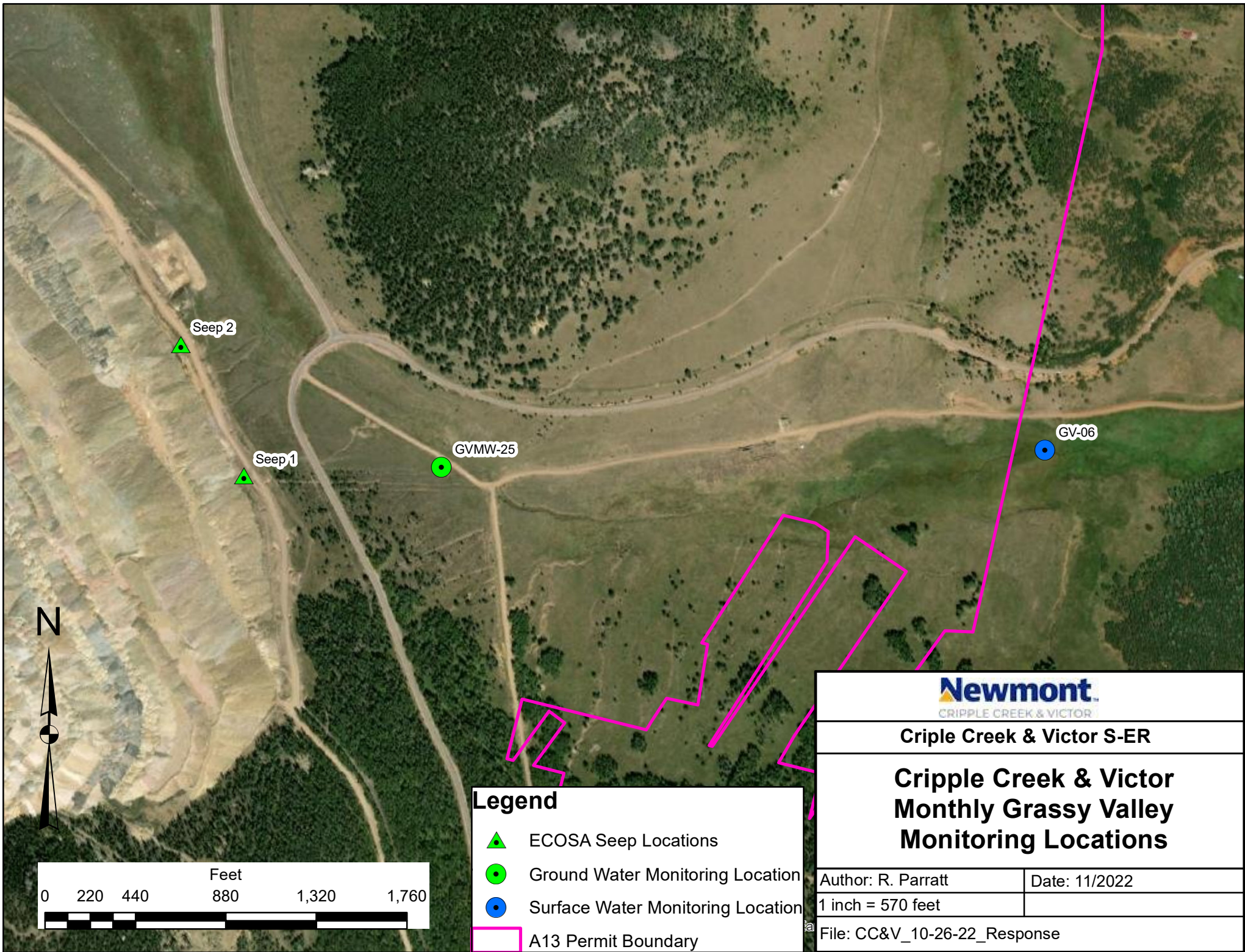
EC: A. Eschberger – DRMS

M. Cunningham – DRMS
P. Lennberg - DRMS
D. Williams – Teller County
K. Blake – CC&V
R. Parratt – CC&V

Encl. (2)

File: S:\CrippleCreek\ha.cc.admin\Environmental\New File Structure\2-Correspondence\DNR\DRMS\2022\Outgoing\11-November

Attachment A



Attachment B

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location: ECosa seep - 1

Date: 10-4-22

Technician: Doering

Quarter: 4th

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
11:30am	2.84	16.29	10.5	

Sample
Method:

Grab

Oil/Gas visible

[Y/N]

Turbid

[Y/N]

Clear

[Y/N]

Weather:

Mostly Cloudy / cool

Signature:

[Signature]

Comments:

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Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location: E Casa Sump-2

Date: 10-4-27

Technician: Doring

Quarter: 4th

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
11:50am	2.52	29.6	15.2	

Sample Method: Grab

Oil/Gas visible [Y/N] (N)

Turbid [Y/N] (Y)

Clear [Y/N] (N)

Weather: Cloudy / cool

Signature: [Signature]

Comments:

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Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location: GV-06

Date: 10-4-22

Technician: Doc...

Quarter: 4th

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
9:50 am	8.17	309.5	7.5	

Sample Method:

Grob

Oil/Gas visible

[Y/N] N

Turbid

[Y/N] N Some particles floating

Clear

[Y/N] N

Weather:

Overcast

Signature:

[Signature]

Comments:

Some oily patches in the surrounding area, but not in the actual flow. Lots of cattle activity in the vicinity.

N: 59220.27

E: 50492.09

Z: 9747.364

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Grossy Valley

Date: 10-4-22

Technician: Doering / Parrot

Quarter: 4th

Static Water Level (DTW): 52.63

Well ID: GUMW-25

Is well Dry? NO

If so Dry at: _____ feet

53.45
53.38
53.33
53.28
53.24

Time	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
10:15		4.48	4700	5.9	≈ 26/min
10:20		4.45	4637	6.4	
10:25		4.43	4478	6.4	
10:30		4.33	4657	6.4	
10:35		4.29	4657	6.6	

Sample Method: Low Flow Rate (gpm): _____ Time Start: 10:15 Time End: 10:35am

Final Parameters	Stabilization Guidance	Met?	Comments
pH	4.29	0.1	Y/N
Conductivity	4657	3%	Y/N
Temp@	6.6	10%	Y/N
Final H2O level	53.24	feet	

O/G visible: Y/N

Turbid? Y/N

Equipment Decontaminated: Y/N

Decontamination procedure used: Pump rinsed

Signature: ARL

Weather: Overcast