



Cripple Creek & Victor
Gold Mining Company
P.O. Box 191
100 North 3rd Street
Victor, Colorado 80860

P 719.689.2977
F 719.689.3254
newmont.com

October 26, 2023

SENT VIA EMAIL

Mr. Elliott Russell
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: Monthly Grassy Valley September 2023 Report Submission, October 26, 2023

Dear Mr. Russell,

Newmont Corporation's Cripple Creek & Victor Gold Mining Company (CC&V) hereby provides the Grassy Valley Monthly Monitoring Report as required by the Division of Reclamation Mining and Safety beginning in the fourth quarter 2021. The monthly monitoring report has been expanded in response to the Corrective Actions Required; Grassy Valley GVMW-25 Monthly Sampling August 2022 issued by the Division on September 30, 2022. The report includes data as outlined in the Grassy Valley Monthly Monitoring Plan submitted as TR-132 and approved by the Division on March 10, 2023. Attachment A contains data from monitoring well GVMW-25, GVMW-26A, GVMW-26B, surface water monitoring location GV-06, and Seep 1 & Seep 2, for the month of September, 2023.

At groundwater monitoring location GVMW-25, increased concentrations of several parameters have been observed during the September 2023 monitoring. This is a similar trend to what was observed in the Fall of 2022 following increased precipitation during the monsoon season.

Should you require further information please do not hesitate to contact Antonio Matarrese at 719.851.4185 or antonio.matarrese@newmont.com or myself at 719.851.4048 or katie.blake@newmont.com

Sincerely,

DocuSigned by:

5A3D013B629844B...

Katie Blake

Sustainability & External Relations Manager
Cripple Creek and Victor Gold Mining Company

EC: P. Lennberg
M. Cunningham
K. Blake
J. Gonzalez
A. Matarrese



Cripple Creek & Victor
Gold Mining Company
P.O. Box 191
100 North 3rd Street
Victor, Colorado 80860

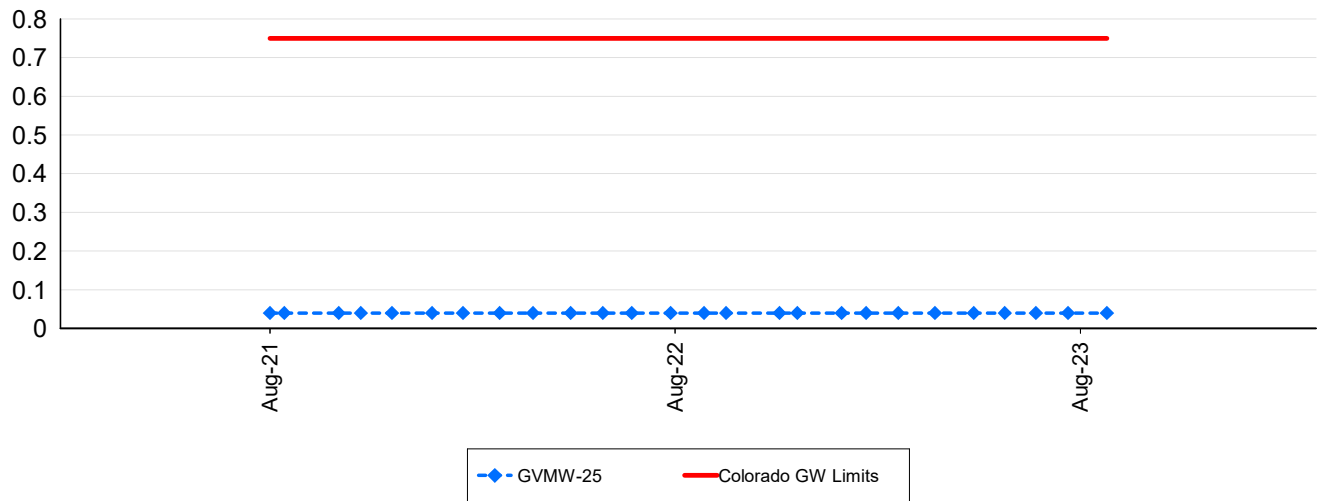
P 719.689.2977
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Attachment A

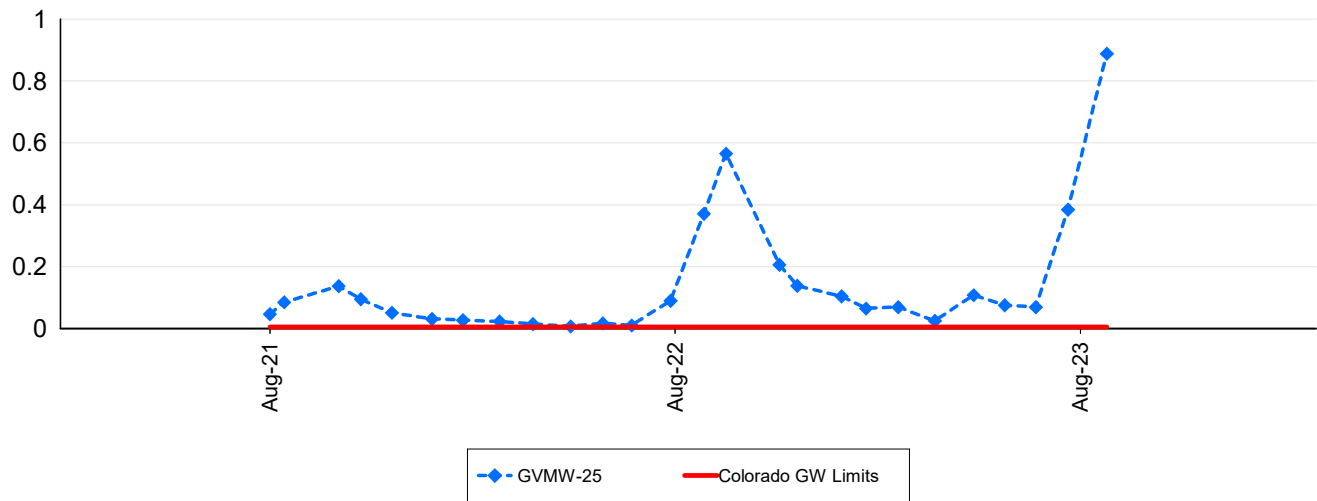
The graph displays the GVMW-25 data (blue dashed line with diamond markers) against the Colorado GW Limits (red solid line). The x-axis represents time from August 21 to August 23. The y-axis represents a numerical value ranging from 0 to 0.28. The GVMW-25 data shows several peaks, with the highest peak reaching approximately 0.27 on August 23. The Colorado GW Limits remain consistently near zero throughout the period.

Date	GVMW-25	Colorado GW Limits
Aug-21 00:00	0.01	0.00
Aug-21 04:00	0.03	0.00
Aug-21 08:00	0.05	0.00
Aug-21 12:00	0.04	0.00
Aug-21 16:00	0.02	0.00
Aug-21 20:00	0.01	0.00
Aug-22 00:00	0.00	0.00
Aug-22 04:00	0.00	0.00
Aug-22 08:00	0.00	0.00
Aug-22 12:00	0.01	0.00
Aug-22 16:00	0.00	0.00
Aug-22 20:00	0.04	0.00
Aug-23 00:00	0.14	0.00
Aug-23 04:00	0.20	0.00
Aug-23 08:00	0.08	0.00
Aug-23 12:00	0.05	0.00
Aug-23 16:00	0.04	0.00
Aug-23 20:00	0.05	0.00
Aug-24 00:00	0.03	0.00
Aug-24 04:00	0.02	0.00
Aug-24 08:00	0.01	0.00
Aug-24 12:00	0.00	0.00
Aug-24 16:00	0.05	0.00
Aug-24 20:00	0.03	0.00
Aug-25 00:00	0.13	0.00
Aug-25 04:00	0.27	0.00

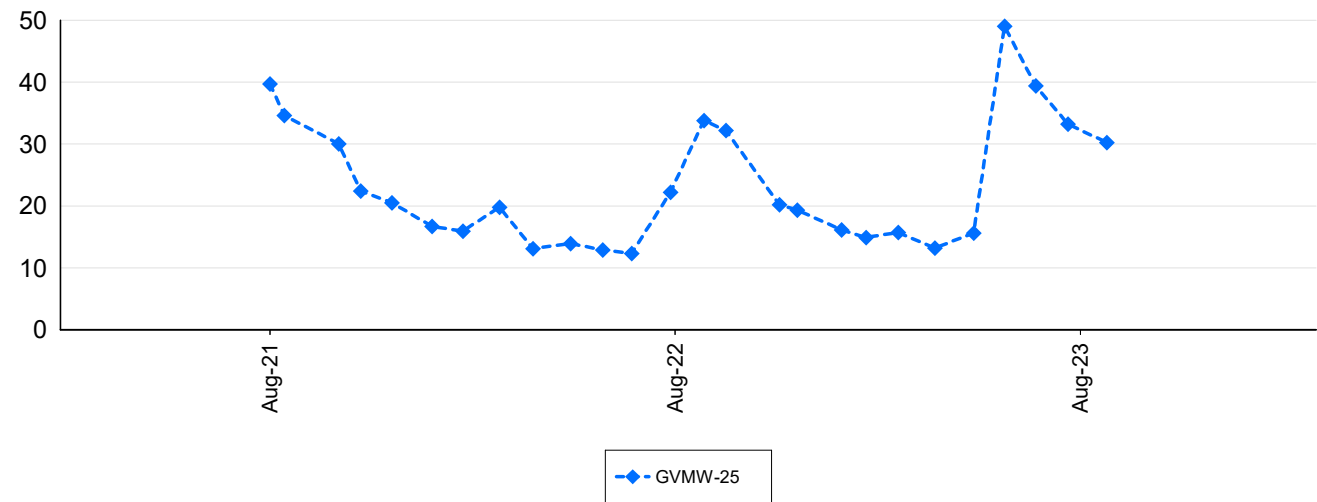
: Boron - Dissolved (mg/L)



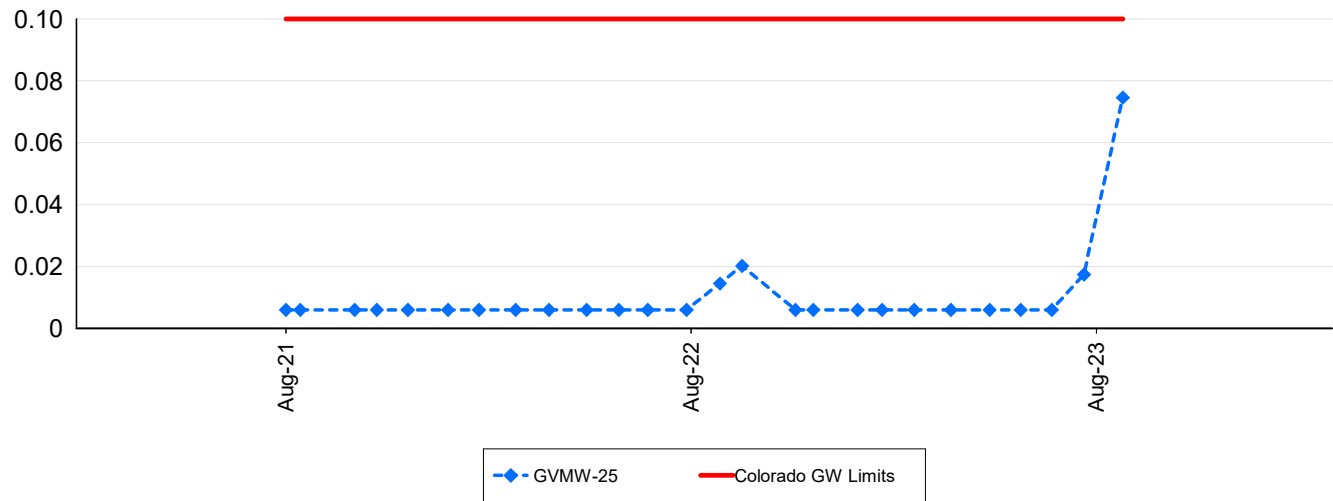
: Cadmium - Dissolved (mg/L)



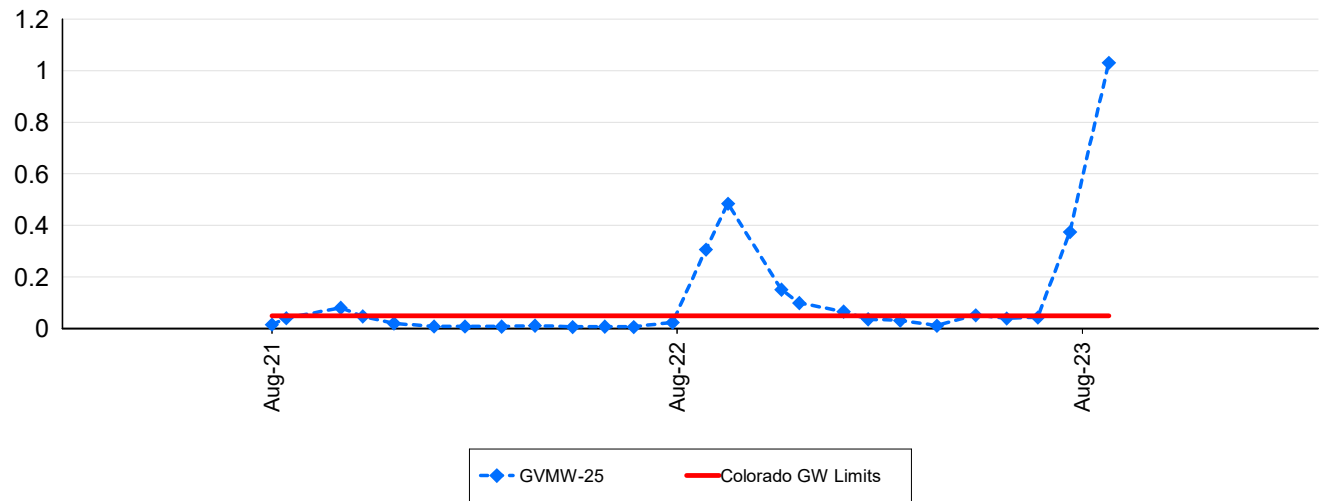
: Chloride - Total (mg/L)



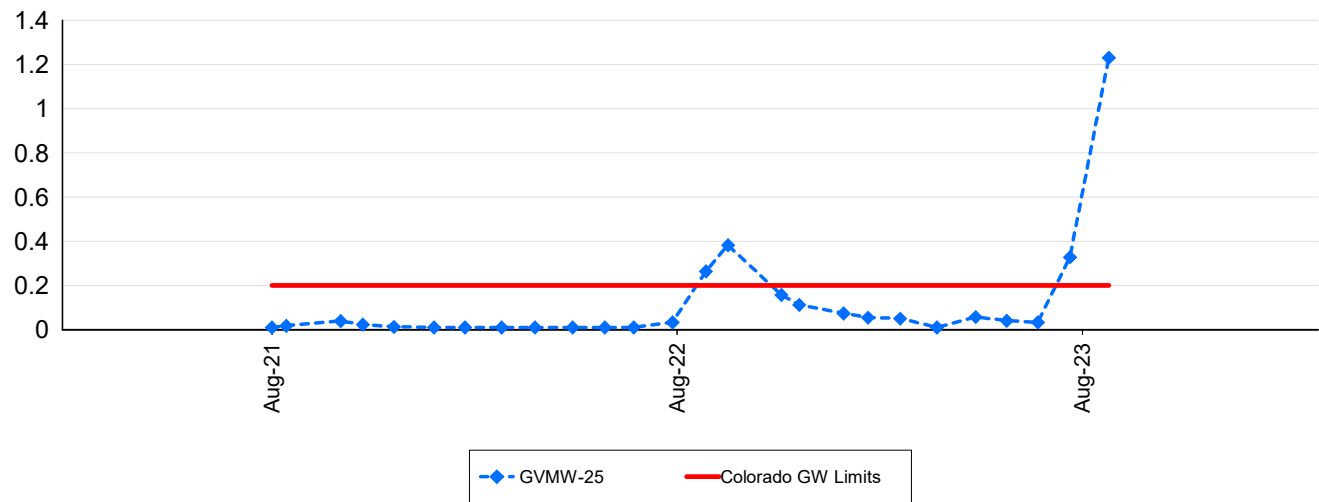
: Chromium - Dissolved (mg/L)



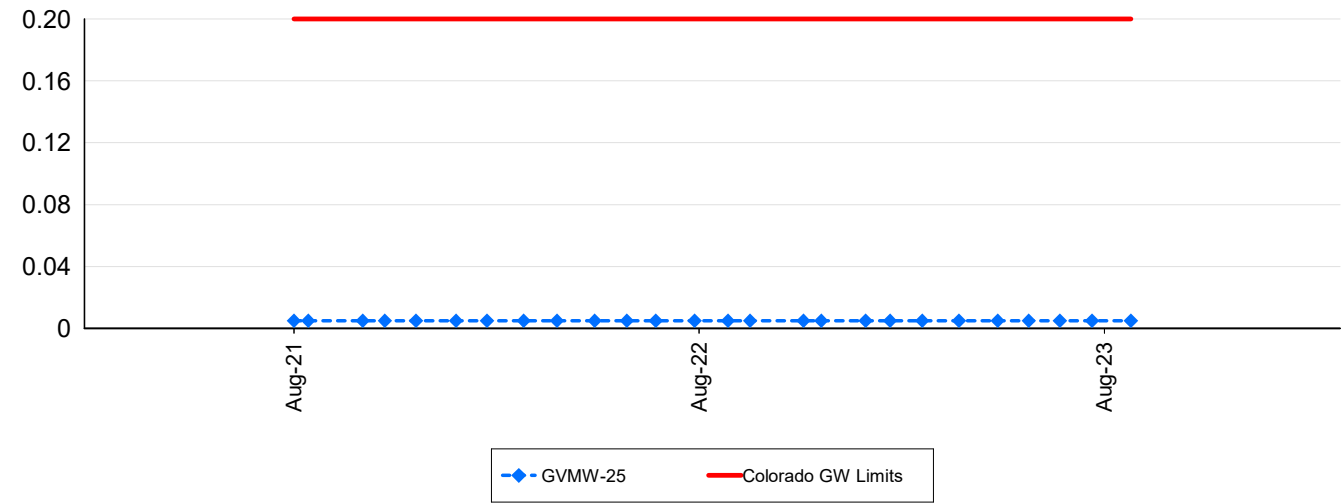
: Cobalt - Dissolved (mg/L)



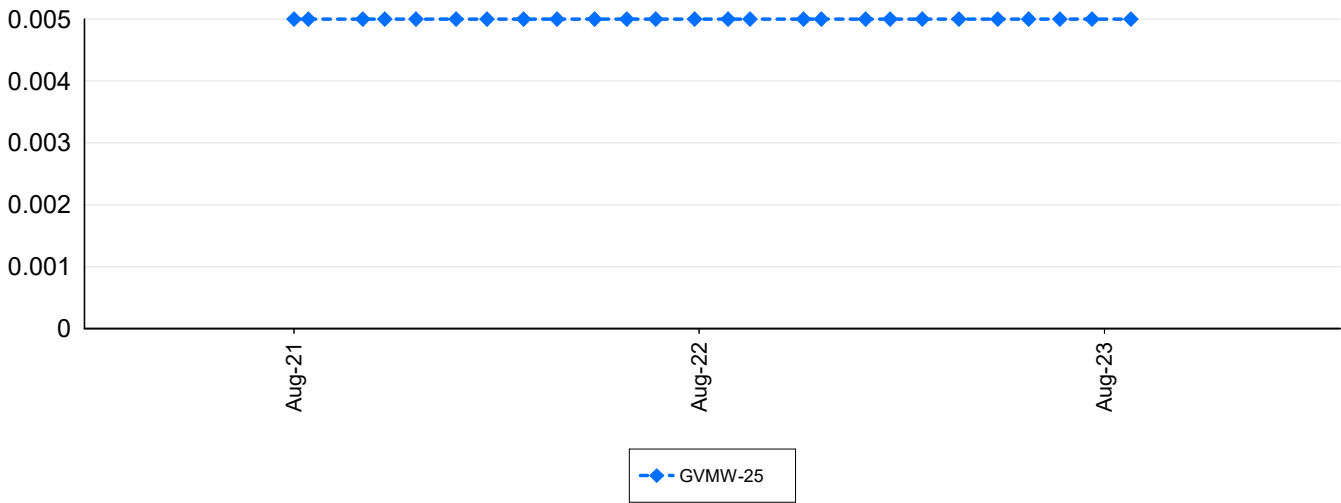
: Copper - Dissolved (mg/L)



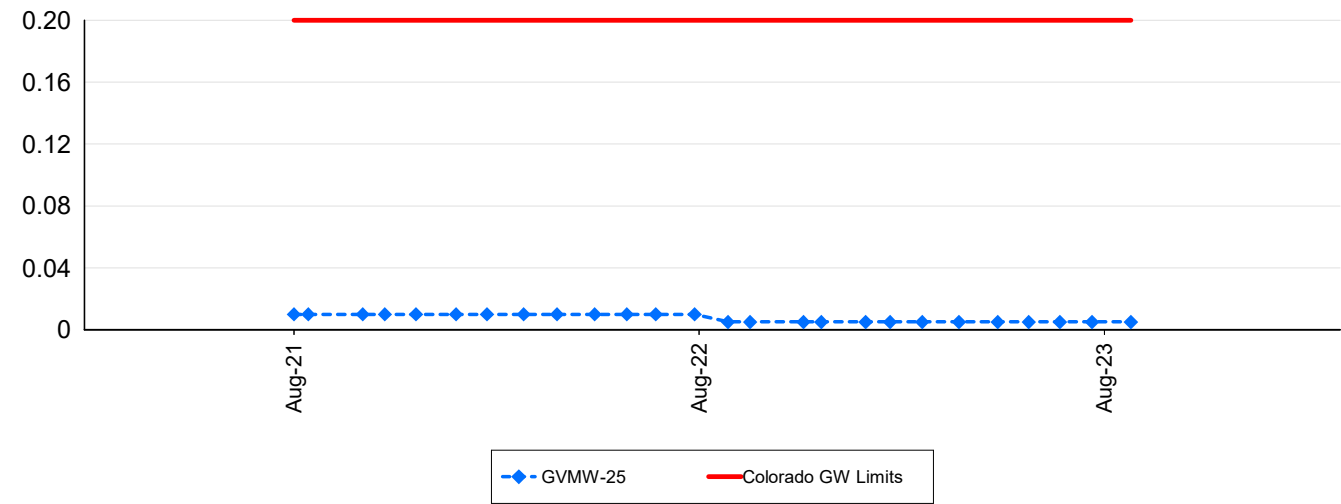
: Cyanide - Free (mg/L)



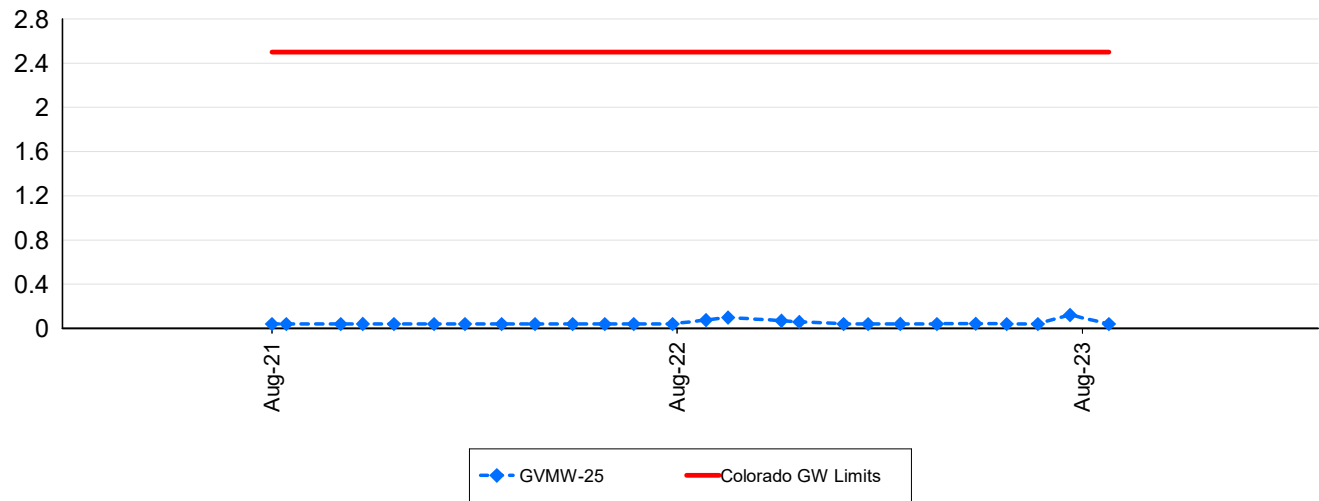
: Cyanide - Total (mg/L)



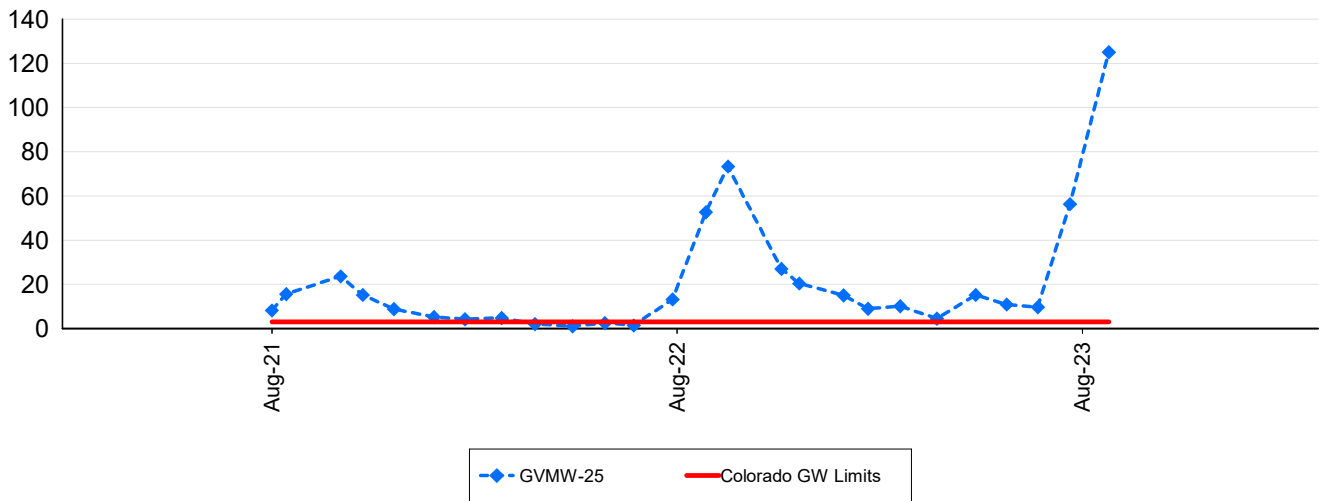
: Cyanide - WAD (mg/L)



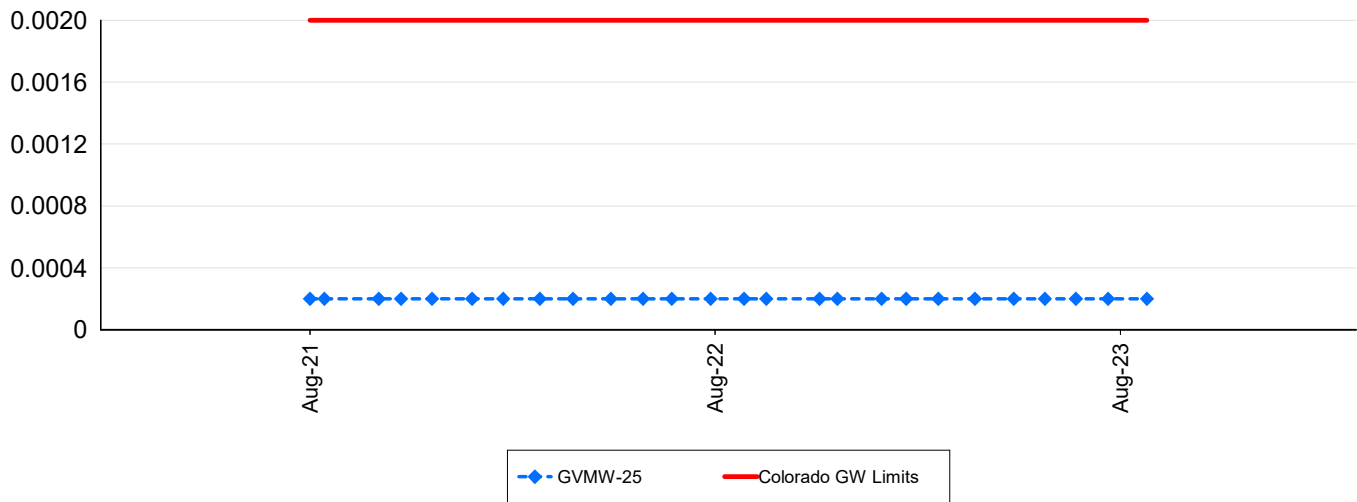
: Lithium - Dissolved (mg/L)



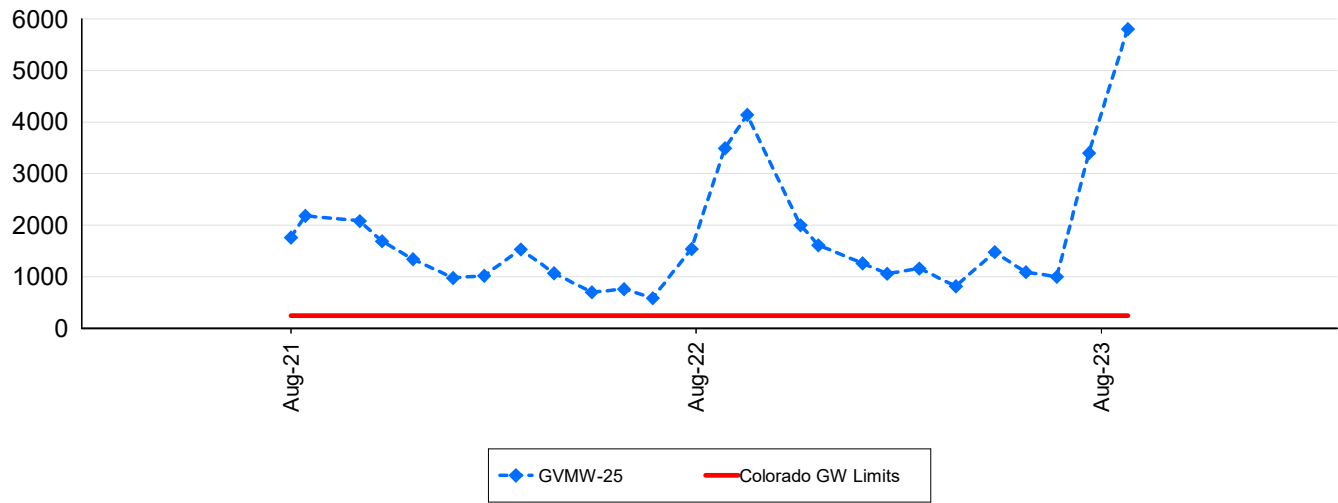
: Manganese - Dissolved (mg/L)



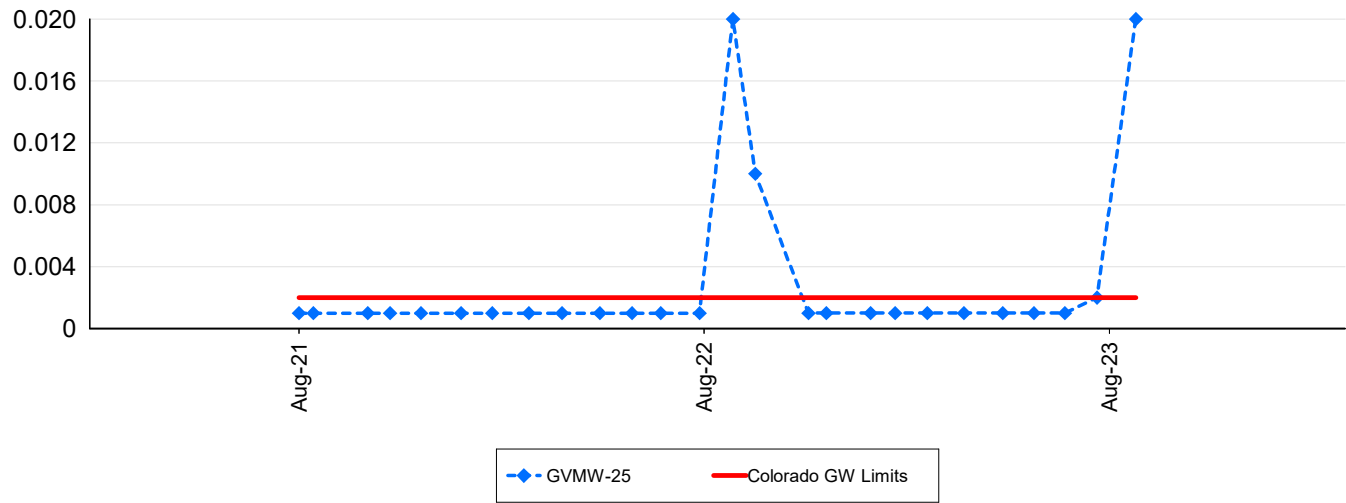
: Mercury - Dissolved (mg/L)



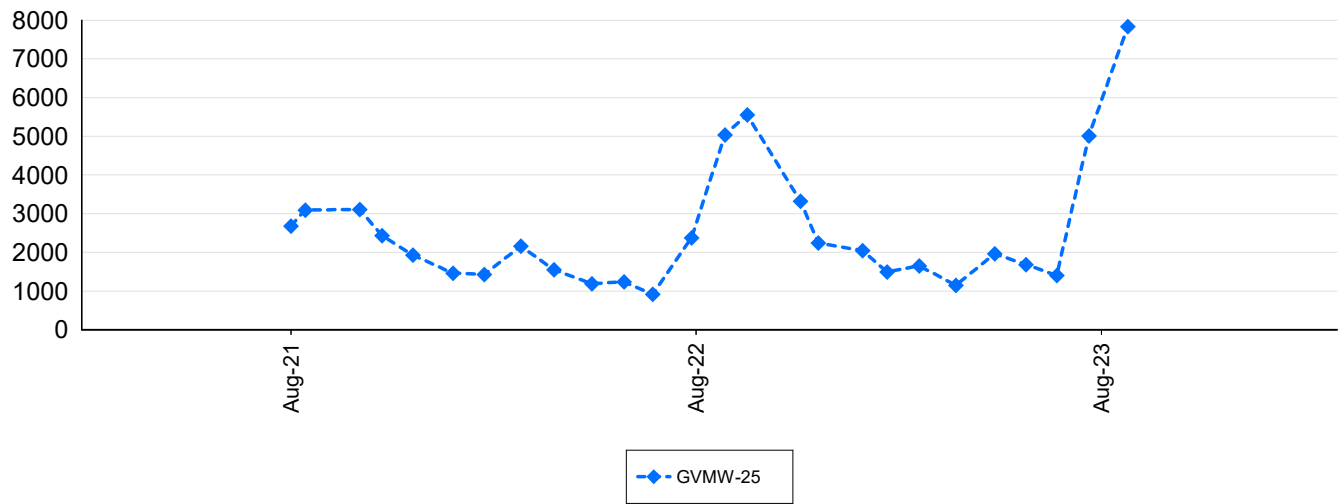
: Sulfate - Total (mg/L)



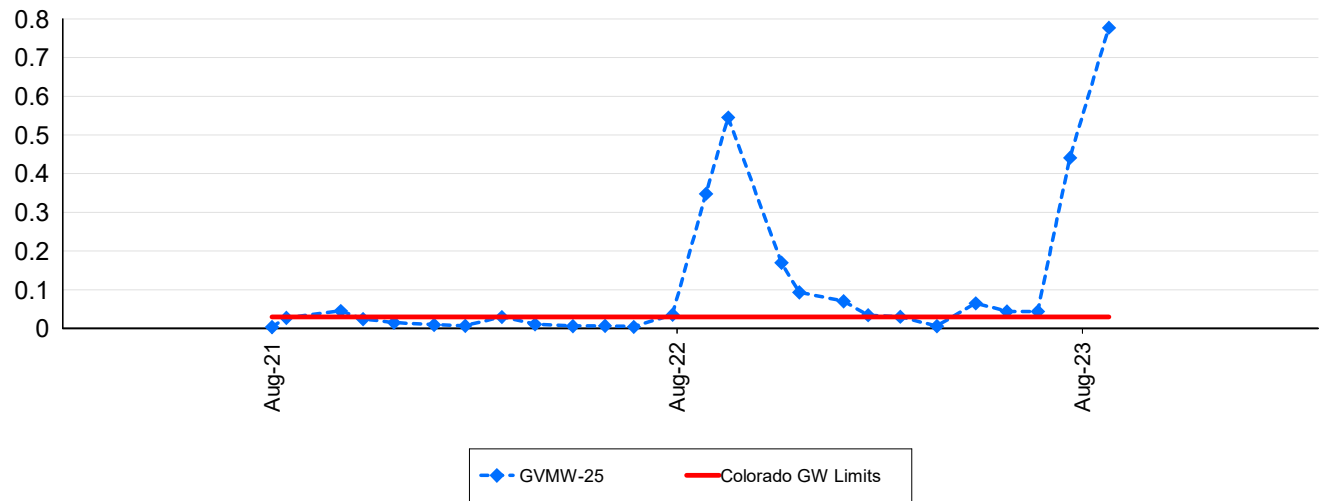
: Thallium - Dissolved (mg/L)



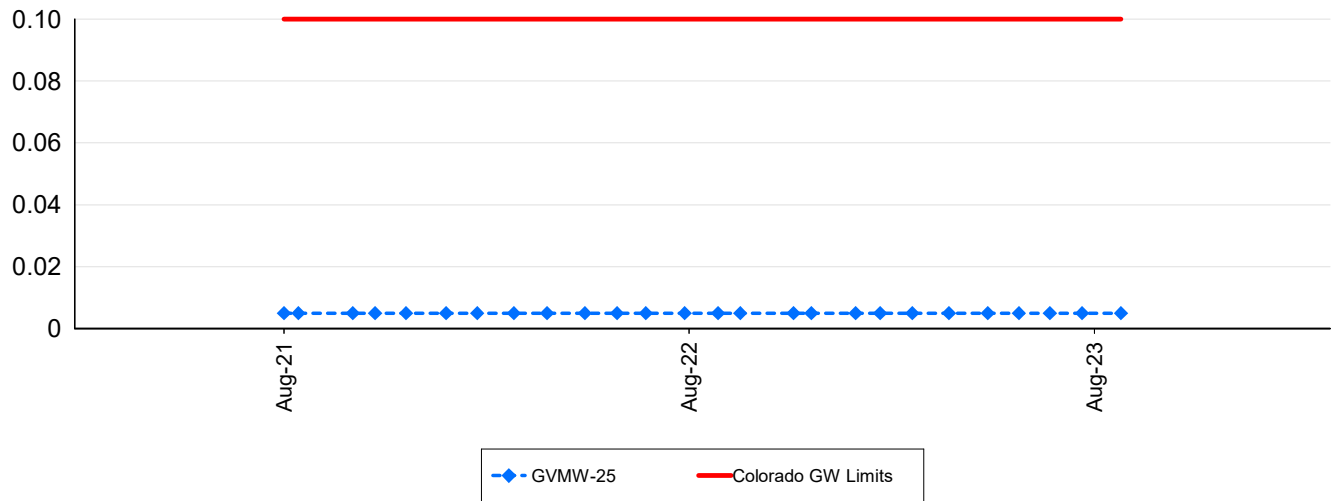
: Total Dissolved Solids (mg/L)



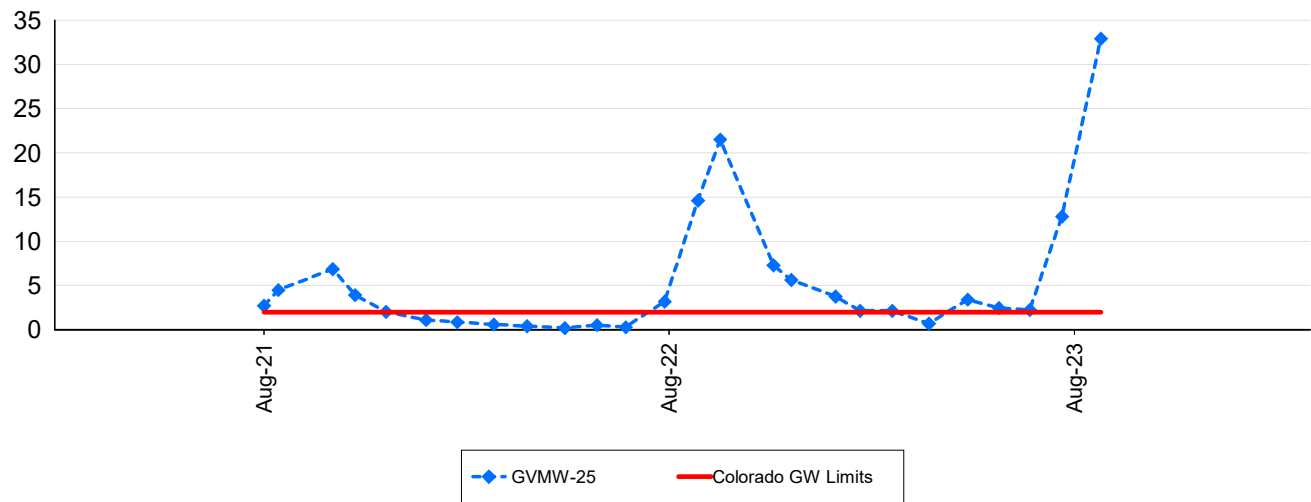
: Uranium - Dissolved (mg/L)



: Vanadium - Dissolved (mg/L)



: Zinc - Dissolved (mg/L)



Analytical Reports



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Work Order: **X310175**

Reported: 03-Oct-23 15:40

Client Sample ID: **GVMW-25**SVL Sample ID: **X310175-01 (Ground Water)**

Sampled: 12-Sep-23 12:49

Received: 13-Sep-23

Sampled By: PB

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	654	mg/L	1.00	0.690	10	X338172	JRR	09/22/23 13:43	D2,M4
EPA 200.7	Magnesium	313	mg/L	0.500	0.090		X338172	JRR	09/22/23 11:29	
EPA 200.7	Potassium	7.90	mg/L	0.50	0.18		X338172	JRR	09/22/23 11:29	
SM 2340 B	Hardness (as CaCO3)	3130	mg/L	2.31	0.543		N/A		09/22/23 11:29	
Metals (Dissolved)										
EPA 200.7	Aluminum	435	mg/L	0.080	0.054		X337264	JRR	09/25/23 12:09	M3
EPA 200.7	Barium	0.0072	mg/L	0.0020	0.0019		X337264	JRR	09/25/23 12:09	
EPA 200.7	Beryllium	0.270	mg/L	0.00200	0.00080		X337264	JRR	09/25/23 12:09	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X337264	JRR	09/25/23 12:09	
EPA 200.7	Cadmium	0.888	mg/L	0.0020	0.0016		X337264	JRR	09/25/23 12:09	
EPA 200.7	Calcium	705	mg/L	0.100	0.069		X337264	JRR	09/25/23 12:09	M3
EPA 200.7	Chromium	0.0746	mg/L	0.0060	0.0020		X337264	JRR	09/25/23 12:09	
EPA 200.7	Cobalt	1.03	mg/L	0.0060	0.0046		X337264	JRR	09/25/23 12:09	
EPA 200.7	Copper	1.23	mg/L	0.0100	0.0027		X337264	JRR	09/25/23 12:09	
EPA 200.7	Iron	1.57	mg/L	0.100	0.056		X337264	JRR	09/25/23 12:09	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X337264	JRR	09/25/23 12:09	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X337264	JRR	09/25/23 12:09	M2
EPA 200.7	Magnesium	332	mg/L	0.500	0.090		X337264	JRR	09/25/23 12:09	M3
EPA 200.7	Manganese	125	mg/L	0.0800	0.0340	10	X337264	JRR	09/25/23 12:57	D2,M4
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X337264	JRR	09/25/23 12:09	
EPA 200.7	Nickel	1.48	mg/L	0.0100	0.0048		X337264	JRR	09/25/23 12:09	
EPA 200.7	Potassium	6.06	mg/L	0.50	0.18		X337264	JRR	09/25/23 12:09	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X337264	JRR	09/25/23 12:09	M2
EPA 200.7	Sodium	45.8	mg/L	0.50	0.12		X337264	JRR	09/25/23 12:09	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X337264	JRR	09/25/23 12:09	
EPA 200.7	Zinc	32.9	mg/L	0.0100	0.0054		X337264	JRR	09/25/23 12:09	M3
EPA 200.8	Antimony	< 0.100	mg/L	0.100	0.0720	100	X337235	SMU	09/26/23 13:38	D1,M4
EPA 200.8	Arsenic	< 0.100	mg/L	0.100	0.0210	100	X337235	SMU	09/26/23 13:38	D1
EPA 200.8	Selenium	0.177	mg/L	0.100	0.0240	100	X337235	SMU	09/26/23 13:38	D1,M4
EPA 200.8	Thallium	< 0.0200	mg/L	0.0200	0.00800	100	X337235	SMU	09/26/23 13:38	D1,M4
EPA 200.8	Uranium	0.777	mg/L	0.0100	0.00520	100	X337235	SMU	09/26/23 13:38	D1,M4
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X338012	NMS	09/20/23 12:56	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X339271	HJL	09/29/23 17:59	H1
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X338015	DD	09/19/23 13:17	M2
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X338083	JRR	09/26/23 12:22	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X339254	HJL	09/29/23 14:39	H1,M2
SM 2310 B	Acidity to pH 8.3	2470	mg/L as CaCO3	10.0			X339051	MWD	09/26/23 13:25	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X337194	MWD	09/14/23 14:25	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X337194	MWD	09/14/23 14:25	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X337194	MWD	09/14/23 14:25	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X337194	MWD	09/14/23 14:25	
SM 2540 C	Total Diss. Solids	7830	mg/L	40			X337181	TJL	09/15/23 14:50	D2
SM 2540 D	Total Susp. Solids	47.0	mg/L	5.0			X337182	TJL	09/17/23 17:35	
SM 4500 H B	pH @19.7°C	3.7	pH Units				X337194	MWD	09/14/23 14:25	H5

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 2 of 15



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Kellogg, ID 83837-0929
(208) 784-1258
www.svl.net

Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Work Order: **X310175**
Reported: 03-Oct-23 15:40

Client Sample ID: **GVMW-25**
SVL Sample ID: **X310175-01 (Ground Water)**

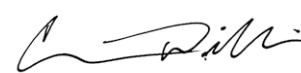
Sampled: 12-Sep-23 12:49
Received: 13-Sep-23
Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	30.2	mg/L	1.00	0.11	5	X337166	RS	09/13/23 23:31	D2
EPA 300.0	Fluoride	43.0	mg/L	10.0	1.70	100	X337166	RS	09/13/23 23:49	D2
EPA 300.0	Nitrate as N	2.86	mg/L	0.250	0.065	5	X337166	RS	09/13/23 23:31	D1
EPA 300.0	Nitrate+Nitrite as N	2.86	mg/L	0.500	0.220	5	X337166	RS	09/13/23 23:31	D1
EPA 300.0	Nitrite as N	< 0.250	mg/L	0.250	0.155	5	X337166	RS	09/13/23 23:31	D1
EPA 300.0	Sulfate as SO4	5800	mg/L	75.0	45.0	250	X337166	RS	09/14/23 20:41	D2

Cation/Anion Balance and TDS Ratios										
Cation Sum: 115 meq/L		Anion Sum: 124 meq/L		C/A Balance: -3.99 %		Calculated TDS: 6941		TDS/cTDS: 1.13		

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.



Connor Williams
Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Work Order: **X310177**

Reported: 03-Oct-23 16:17

Client Sample ID: **GVMW-26A**

Sampled: 12-Sep-23 10:16

Received: 13-Sep-23

Sampled By: PB

SVL Sample ID: **X310177-03 (Ground Water)****Sample Report Page 1 of 2**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	30.0	mg/L	0.100	0.069		X338171	JRR	09/22/23 10:32	
EPA 200.7	Magnesium	6.90	mg/L	0.500	0.090		X338171	JRR	09/22/23 10:32	
EPA 200.7	Potassium	0.94	mg/L	0.50	0.18		X338171	JRR	09/22/23 10:32	
SM 2340 B	Hardness (as CaCO3)	102	mg/L	2.31	0.543		N/A		09/22/23 10:32	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X339075	JRR	09/26/23 10:52	
EPA 200.7	Barium	0.183	mg/L	0.0020	0.0019		X339075	JRR	09/26/23 10:52	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X339075	JRR	09/26/23 10:52	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X339075	JRR	09/26/23 10:52	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X339075	JRR	09/26/23 10:52	
EPA 200.7	Calcium	28.8	mg/L	0.100	0.069		X339075	JRR	09/26/23 10:52	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X339075	JRR	09/26/23 10:52	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X339075	JRR	09/26/23 10:52	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X339075	JRR	09/26/23 10:52	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X339075	JRR	09/26/23 10:52	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X339075	JRR	09/26/23 13:01	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X339075	JRR	09/26/23 10:52	
EPA 200.7	Magnesium	6.46	mg/L	0.500	0.090		X339075	JRR	09/26/23 10:52	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X339075	JRR	09/26/23 10:52	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X339075	JRR	09/26/23 10:52	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X339075	JRR	09/26/23 10:52	
EPA 200.7	Potassium	0.89	mg/L	0.50	0.18		X339075	JRR	09/26/23 10:52	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X339075	JRR	09/26/23 10:52	
EPA 200.7	Sodium	31.9	mg/L	0.50	0.12		X339075	JRR	09/26/23 10:52	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X339075	JRR	09/26/23 10:52	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X339075	JRR	09/26/23 10:52	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X337235	SMU	09/26/23 13:07	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X337235	SMU	09/26/23 13:07	
EPA 200.8	Selenium	0.00110	mg/L	0.00100	0.00024		X337235	SMU	09/26/23 13:07	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X337235	SMU	09/26/23 13:07	
EPA 200.8	Uranium	0.00346	mg/L	0.000100	0.000052		X337235	SMU	09/26/23 13:07	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X338012	NMS	09/20/23 13:09	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X338249	HJL	09/22/23 16:17	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X338015	DD	09/19/23 13:44	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X338083	JRR	09/26/23 12:34	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X339254	HJL	09/29/23 16:37	H1
SM 2310 B	Acidity to pH 8.3	-158	mg/L as CaCO3	10.0			X339051	MWD	09/26/23 13:25	
SM 2320 B	Total Alkalinity	163	mg/L as CaCO3	1.0			X337194	MWD	09/15/23 09:23	
SM 2320 B	Bicarbonate	163	mg/L as CaCO3	1.0			X337194	MWD	09/15/23 09:23	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X337194	MWD	09/15/23 09:23	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X337194	MWD	09/15/23 09:23	
SM 2540 C	Total Diss. Solids	196	mg/L	10			X337181	TJL	09/15/23 14:50	
SM 2540 D	Total Susp. Solids	5.0	mg/L	5.0			X337182	TJL	09/17/23 17:35	
SM 4500 H B	pH @17.0°C	7.0	pH Units				X337194	MWD	09/15/23 09:23	H5

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 6 of 18



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Work Order: **X310177**

Reported: 03-Oct-23 16:17

Client Sample ID: **GVMW-26A**SVL Sample ID: **X310177-03 (Ground Water)**

Sampled: 12-Sep-23 10:16

Received: 13-Sep-23

Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	1.58	mg/L	0.20	0.02		X337167	RS	09/13/23 13:39	
EPA 300.0	Fluoride	1.94	mg/L	0.100	0.017		X337167	RS	09/13/23 13:39	
EPA 300.0	Nitrate as N	0.065	mg/L	0.050	0.013		X337167	RS	09/13/23 13:39	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X337167	RS	09/13/23 13:39	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X337167	RS	09/13/23 13:39	
EPA 300.0	Sulfate as SO4	11.2	mg/L	0.30	0.18		X337167	RS	09/13/23 13:39	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.39 meq/L

Anion Sum: 3.64 meq/L

C/A Balance: -3.48 %

Calculated TDS: 181

TDS/cTDS: 1.08

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Connor Williams

Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Work Order: **X310177**

Reported: 03-Oct-23 16:17

Client Sample ID: **GVMW-26B**

Sampled: 12-Sep-23 11:03

Received: 13-Sep-23

Sampled By: PB

SVL Sample ID: **X310177-04 (Ground Water)****Sample Report Page 1 of 2**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	12.0	mg/L	0.100	0.069		X338171	JRR	09/22/23 10:35	
EPA 200.7	Magnesium	2.50	mg/L	0.500	0.090		X338171	JRR	09/22/23 10:35	
EPA 200.7	Potassium	0.74	mg/L	0.50	0.18		X338171	JRR	09/22/23 10:35	
SM 2340 B	Hardness (as CaCO3)	39.6	mg/L	2.31	0.543		N/A		09/22/23 10:35	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X339075	JRR	09/26/23 10:56	
EPA 200.7	Barium	0.113	mg/L	0.0020	0.0019		X339075	JRR	09/26/23 10:56	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X339075	JRR	09/26/23 10:56	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X339075	JRR	09/26/23 10:56	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X339075	JRR	09/26/23 10:56	
EPA 200.7	Calcium	11.7	mg/L	0.100	0.069		X339075	JRR	09/26/23 10:56	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X339075	JRR	09/26/23 10:56	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X339075	JRR	09/26/23 10:56	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X339075	JRR	09/26/23 10:56	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X339075	JRR	09/26/23 10:56	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X339075	JRR	09/26/23 13:05	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X339075	JRR	09/26/23 10:56	
EPA 200.7	Magnesium	2.37	mg/L	0.500	0.090		X339075	JRR	09/26/23 10:56	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X339075	JRR	09/26/23 10:56	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X339075	JRR	09/26/23 10:56	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X339075	JRR	09/26/23 10:56	
EPA 200.7	Potassium	0.71	mg/L	0.50	0.18		X339075	JRR	09/26/23 10:56	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X339075	JRR	09/26/23 10:56	
EPA 200.7	Sodium	10.1	mg/L	0.50	0.12		X339075	JRR	09/26/23 10:56	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X339075	JRR	09/26/23 10:56	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X339075	JRR	09/26/23 10:56	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X337235	SMU	09/26/23 13:10	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X337235	SMU	09/26/23 13:10	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X337235	SMU	09/26/23 13:10	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X337235	SMU	09/26/23 13:10	
EPA 200.8	Uranium	0.000129	mg/L	0.000100	0.000052		X337235	SMU	09/26/23 13:10	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X338012	NMS	09/20/23 13:11	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X338249	HJL	09/22/23 16:19	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X338015	DD	09/19/23 13:46	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X338083	JRR	09/26/23 12:46	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X339254	HJL	09/29/23 16:38	H1
SM 2310 B	Acidity to pH 8.3	-32.6	mg/L as CaCO3	10.0			X339051	MWD	09/26/23 13:25	
SM 2320 B	Total Alkalinity	39.9	mg/L as CaCO3	1.0			X337194	MWD	09/15/23 09:33	
SM 2320 B	Bicarbonate	39.9	mg/L as CaCO3	1.0			X337194	MWD	09/15/23 09:33	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X337194	MWD	09/15/23 09:33	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X337194	MWD	09/15/23 09:33	
SM 2540 C	Total Diss. Solids	134	mg/L	10			X337181	TJL	09/15/23 14:50	
SM 2540 D	Total Susp. Solids	5.0	mg/L	5.0			X337182	TJL	09/17/23 17:35	
SM 4500 H B	pH @17.1°C	6.3	pH Units				X337194	MWD	09/15/23 09:33	H5



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Work Order: **X310177**

Reported: 03-Oct-23 16:17

Client Sample ID: **GVMW-26B**SVL Sample ID: **X310177-04 (Ground Water)**

Sampled: 12-Sep-23 11:03

Received: 13-Sep-23

Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	1.66	mg/L	0.20	0.02		X337167	RS	09/13/23 14:16	
EPA 300.0	Fluoride	0.226	mg/L	0.100	0.017		X337167	RS	09/13/23 14:16	
EPA 300.0	Nitrate as N	0.576	mg/L	0.050	0.013		X337167	RS	09/13/23 14:16	
EPA 300.0	Nitrate+Nitrite as N	0.576	mg/L	0.100	0.044		X337167	RS	09/13/23 14:16	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X337167	RS	09/13/23 14:16	
EPA 300.0	Sulfate as SO4	21.8	mg/L	0.30	0.18		X337167	RS	09/13/23 14:16	

Cation/Anion Balance and TDS Ratios

Cation Sum: 1.25 meq/L

Anion Sum: 1.35 meq/L

C/A Balance: -3.84 %

Calculated TDS: 75

TDS/cTDS: 1.78

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Connor Williams

Project Manager



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Work Order: **X310177**

Reported: 03-Oct-23 16:17

Client Sample ID: **GV-06**

Sampled: 12-Sep-23 08:40

Received: 13-Sep-23

Sampled By: PB

SVL Sample ID: **X310177-01 (Surface Water)****Sample Report Page 1 of 2**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total)

EPA 245.1	Mercury	< 0.000093	mg/L	0.000200	0.000093		X338009	NMS	09/18/23 15:18	U
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Barium	0.176	mg/L	0.0020	0.0019		X338171	JRR	09/22/23 10:25	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X338171	JRR	09/22/23 10:25	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X338171	JRR	09/22/23 10:25	
EPA 200.7	Calcium	44.9	mg/L	0.100	0.069		X338171	JRR	09/22/23 10:25	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X338171	JRR	09/22/23 10:25	
EPA 200.7	Iron	3.51	mg/L	0.100	0.056		X338171	JRR	09/22/23 10:25	
EPA 200.7	Magnesium	11.1	mg/L	0.500	0.090		X338171	JRR	09/22/23 10:25	
EPA 200.7	Manganese	1.60	mg/L	0.0080	0.0034		X338171	JRR	09/22/23 10:25	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X338171	JRR	09/22/23 10:25	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X338171	JRR	09/22/23 10:25	
EPA 200.7	Phosphorus	0.109	mg/L	0.050	0.013		X338171	JRR	09/22/23 10:25	
EPA 200.7	Potassium	2.74	mg/L	0.50	0.18		X338171	JRR	09/22/23 10:25	
EPA 200.7	Sodium	13.8	mg/L	0.50	0.12		X338171	JRR	09/22/23 10:25	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X338171	JRR	09/22/23 10:25	
EPA 200.8	Antimony	< 0.00500	mg/L	0.00500	0.00360	5	X338178	SMU	09/27/23 15:53	D1
EPA 200.8	Arsenic	< 0.00500	mg/L	0.00500	0.00105	5	X338178	SMU	09/27/23 15:53	D1
EPA 200.8	Cadmium	< 0.000500	mg/L	0.000500	0.000315	5	X338178	SMU	09/27/23 15:53	D1
EPA 200.8	Chromium	< 0.00500	mg/L	0.00500	0.00085	5	X338178	SMU	09/27/23 15:53	D1
EPA 200.8	Copper	< 0.00200	mg/L	0.00200	0.00180	5	X338178	SMU	09/27/23 15:53	D1
EPA 200.8	Lead	0.00180	mg/L	0.00100	0.00070	5	X338178	SMU	09/27/23 15:53	D1
EPA 200.8	Selenium	< 0.00500	mg/L	0.00500	0.00120	5	X338178	SMU	09/27/23 15:53	D1
SM 2340 B	Hardness (as CaCO3)	151	mg/L	2.31	0.543		N/A		09/26/23 10:38	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X339075	JRR	09/26/23 10:38	
EPA 200.7	Barium	0.107	mg/L	0.0020	0.0019		X339075	JRR	09/26/23 10:38	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X339075	JRR	09/26/23 10:38	
EPA 200.7	Calcium	42.0	mg/L	0.100	0.069		X339075	JRR	09/26/23 10:38	
EPA 200.7	Iron	0.459	mg/L	0.100	0.056		X339075	JRR	09/26/23 10:38	
EPA 200.7	Magnesium	10.1	mg/L	0.500	0.090		X339075	JRR	09/26/23 10:38	
EPA 200.7	Manganese	0.730	mg/L	0.0080	0.0034		X339075	JRR	09/26/23 10:38	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X339075	JRR	09/26/23 10:38	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X339075	JRR	09/26/23 10:38	
EPA 200.7	Potassium	2.49	mg/L	0.50	0.18		X339075	JRR	09/26/23 10:38	
EPA 200.7	Sodium	13.1	mg/L	0.50	0.12		X339075	JRR	09/26/23 10:38	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X339075	JRR	09/26/23 10:38	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X337235	SMU	09/26/23 13:02	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X337235	SMU	09/26/23 13:02	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X337235	SMU	09/26/23 13:02	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X337235	SMU	09/26/23 13:02	
EPA 200.8	Copper	0.00065	mg/L	0.00040	0.00036		X337235	SMU	09/26/23 13:02	
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X337235	SMU	09/26/23 13:02	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X337235	SMU	09/26/23 13:02	
EPA 200.8	Silver	< 0.00008	mg/L	0.00008	0.000061		X337235	SMU	09/26/23 13:02	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X337235	SMU	09/26/23 13:02	
EPA 200.8	Uranium	0.00126	mg/L	0.000100	0.000052		X337235	SMU	09/26/23 13:02	

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 2 of 18



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Work Order: **X310177**

Reported: 03-Oct-23 16:17

Client Sample ID: **GV-06**SVL Sample ID: **X310177-01 (Surface Water)**

Sampled: 12-Sep-23 08:40

Received: 13-Sep-23

Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X338012	NMS	09/20/23 13:05	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X338249	HJL	09/22/23 16:13	
Calculation	Chromium(III)	< 0.0110	mg/L	0.0110	0.00390		N/A		09/22/23 10:25	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X338015	DD	09/19/23 13:28	
EPA 350.1	Ammonia as N	0.032	mg/L	0.030	0.013		X338083	JRR	09/26/23 12:30	
EPA 351.2	TKN	< 0.50	mg/L	0.50	0.31		X337222	HJL	09/19/23 18:13	
Hach 8167	Total Chlorine	0.34	mg/L	0.020			X337174	NMS	09/13/23 13:42	H5
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X339254	HJL	09/29/23 14:45	H1
SM 2310 B	Acidity to pH 8.3	-108	mg/L as CaCO3	10.0			X339051	MWD	09/26/23 13:25	
SM 2320 B	Total Alkalinity	108	mg/L as CaCO3	1.0			X337194	MWD	09/15/23 09:08	
SM 2320 B	Bicarbonate	108	mg/L as CaCO3	1.0			X337194	MWD	09/15/23 09:08	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X337194	MWD	09/15/23 09:08	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X337194	MWD	09/15/23 09:08	
SM 2540 C	Total Diss. Solids	209	mg/L	10			X339270	TJL	10/03/23 14:10	H1
SM 2540 D	Total Susp. Solids	27.0	mg/L	5.0			X337182	TJL	09/17/23 17:35	
SM 4500 H B	pH @16.8°C	6.5	pH Units				X337194	MWD	09/15/23 09:08	H5
SM 4500 S D	Sulfide	< 0.050	mg/L	0.050	0.020		X338010	NMS	09/18/23 14:58	
SM 4500-O-G	Dissolved Oxygen	6.0	mg/L	0.1			X337042	TJL	09/13/23 16:20	H5

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	< 0.0050	mg/L	0.0050	0.0019		X338056	NMS	09/19/23 15:26	
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Filtered Classical Chemistry Parameters

Calculation	Chromium(III)-Dissolved	< 0.00600	mg/L	0.00600	0.00207		N/A		09/26/23 13:02	
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Anions by Ion Chromatography

EPA 300.0	Chloride	8.89	mg/L	0.20	0.02		X337167	RS	09/13/23 13:02	
EPA 300.0	Fluoride	0.516	mg/L	0.100	0.017		X337167	RS	09/13/23 13:02	
EPA 300.0	Nitrate as N	0.185	mg/L	0.050	0.013		X337167	RS	09/13/23 13:02	
EPA 300.0	Nitrate+Nitrite as N	0.206	mg/L	0.100	0.044		X337167	RS	09/13/23 13:02	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X337167	RS	09/13/23 13:02	
EPA 300.0	Sulfate as SO4	62.6	mg/L	3.00	1.80	10	X337167	RS	09/13/23 13:21	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.61 meq/L	Anion Sum: 3.75 meq/L	C/A Balance: -1.91 %	Calculated TDS: 208	TDS/cTDS: 1.01
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Connor Williams
Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Work Order: **X310175**

Reported: 03-Oct-23 15:40

Client Sample ID: **Ecosa Seep-1**SVL Sample ID: **X310175-03 (Ground Water)**

Sampled: 12-Sep-23 07:48

Received: 13-Sep-23

Sampled By: PB

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	277	mg/L	0.500	0.345	5	X338172	JRR	09/22/23 11:44	D1
EPA 200.7	Magnesium	439	mg/L	2.50	0.450	5	X338172	JRR	09/22/23 11:44	D1
EPA 200.7	Potassium	< 2.50	mg/L	2.50	0.90	5	X338172	JRR	09/22/23 11:44	D1
SM 2340 B	Hardness (as CaCO3)	2610	mg/L	23.1	5.43		N/A		09/22/23 11:44	

Metals (Dissolved)

EPA 200.7	Aluminum	1910	mg/L	0.800	0.540	10	X337264	JRR	09/25/23 12:24	D2
EPA 200.7	Barium	0.0590	mg/L	0.0200	0.0190	10	X337264	JRR	09/25/23 12:24	D1
EPA 200.7	Beryllium	0.248	mg/L	0.0200	0.00800	10	X337264	JRR	09/25/23 12:24	D1
EPA 200.7	Boron	0.606	mg/L	0.400	0.0780	10	X337264	JRR	09/25/23 12:24	D1
EPA 200.7	Cadmium	6.12	mg/L	0.0200	0.0160	10	X337264	JRR	09/25/23 12:24	D1
EPA 200.7	Calcium	280	mg/L	1.00	0.690	10	X337264	JRR	09/25/23 12:24	D1
EPA 200.7	Chromium	0.560	mg/L	0.0600	0.0200	10	X337264	JRR	09/25/23 12:24	D1
EPA 200.7	Cobalt	6.23	mg/L	0.0600	0.0460	10	X337264	JRR	09/25/23 12:24	D1
EPA 200.7	Copper	13.4	mg/L	0.100	0.0270	10	X337264	JRR	09/25/23 12:24	D1
EPA 200.7	Iron	796	mg/L	1.00	0.560	10	X337264	JRR	09/25/23 12:24	D1
EPA 200.7	Lead	< 0.0750	mg/L	0.0750	0.0490	10	X337264	JRR	09/25/23 12:24	D1
EPA 200.7	Lithium	< 0.400	mg/L	0.400	0.250	10	X337264	JRR	09/25/23 12:24	D1
EPA 200.7	Magnesium	465	mg/L	5.00	0.900	10	X337264	JRR	09/25/23 12:24	D1
EPA 200.7	Manganese	578	mg/L	0.0800	0.0340	10	X337264	JRR	09/25/23 12:24	D2
EPA 200.7	Molybdenum	< 0.0800	mg/L	0.0800	0.0340	10	X337264	JRR	09/25/23 12:24	D1
EPA 200.7	Nickel	4.54	mg/L	0.100	0.0480	10	X337264	JRR	09/25/23 12:24	D1
EPA 200.7	Potassium	< 5.00	mg/L	5.00	1.80	10	X337264	JRR	09/25/23 12:24	D1
EPA 200.7	Silver	< 0.0500	mg/L	0.0500	0.0190	10	X337264	JRR	09/25/23 12:24	D1
EPA 200.7	Sodium	26.3	mg/L	5.00	1.20	10	X337264	JRR	09/25/23 12:24	D1
EPA 200.7	Vanadium	< 0.0500	mg/L	0.0500	0.0190	10	X337264	JRR	09/25/23 12:24	D1
EPA 200.7	Zinc	88.7	mg/L	0.100	0.0540	10	X337264	JRR	09/25/23 12:24	D2
EPA 200.8	Antimony	< 0.100	mg/L	0.100	0.0720	100	X337235	SMU	09/26/23 12:48	D1
EPA 200.8	Arsenic	0.241	mg/L	0.100	0.0210	100	X337235	SMU	09/26/23 12:48	D1
EPA 200.8	Selenium	0.273	mg/L	0.100	0.0240	100	X337235	SMU	09/26/23 12:48	D1
EPA 200.8	Thallium	< 0.0200	mg/L	0.0200	0.00800	100	X337235	SMU	09/26/23 12:48	D1
EPA 200.8	Uranium	6.79	mg/L	0.0100	0.00520	100	X337235	SMU	09/26/23 12:48	D1

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X338012	NMS	09/20/23 13:01	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0500	mg/L	0.0500	0.0480	10	X338249	HJL	09/22/23 16:09	D1,Q12,Q20, Q26
EPA 335.4	Cyanide (total)	0.0057	mg/L	0.0050	0.0038		X338015	DD	09/19/23 13:22	
EPA 350.1	Ammonia as N	0.340	mg/L	0.030	0.013		X338083	JRR	09/26/23 12:26	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X339254	HJL	09/29/23 14:42	H1
SM 2310 B	Acidity to pH 8.3	12400	mg/L as CaCO3	10.0			X339051	MWD	09/26/23 13:25	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X337194	MWD	09/14/23 14:45	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X337194	MWD	09/14/23 14:45	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X337194	MWD	09/14/23 14:45	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X337194	MWD	09/14/23 14:45	
SM 2540 C	Total Diss. Solids	25900	mg/L	100			X337181	TJL	09/15/23 14:50	D2,E11
SM 2540 D	Total Susp. Solids	108	mg/L	5.0			X337182	TJL	09/17/23 17:35	
SM 4500 H B	pH @19.8°C	2.7	pH Units				X337194	MWD	09/14/23 14:45	H5

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 6 of 15



One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
(208) 784-1258
www.svl.net

Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Work Order: **X310175**
Reported: 03-Oct-23 15:40

Client Sample ID: **Ecosa Seep-1**
SVL Sample ID: **X310175-03 (Ground Water)**

Sampled: 12-Sep-23 07:48
Received: 13-Sep-23
Sampled By: PB

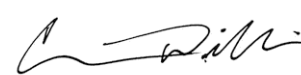
Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	< 10.0	mg/L	10.0	1.10	50	X337166	RS	09/13/23 11:49	D1
EPA 300.0	Fluoride	20.8	mg/L	5.00	0.850	50	X337166	RS	09/13/23 11:49	D2
EPA 300.0	Nitrate as N	6.46	mg/L	2.50	0.650	50	X337166	RS	09/13/23 11:49	D1
EPA 300.0	Nitrate+Nitrite as N	6.46	mg/L	5.00	2.20	50	X337166	RS	09/13/23 11:49	D1
EPA 300.0	Nitrite as N	< 2.50	mg/L	2.50	1.55	50	X337166	RS	09/13/23 11:49	D1
EPA 300.0	Sulfate as SO4	18100	mg/L	300	180	1000	X337166	RS	09/13/23 12:07	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 316 meq/L	Anion Sum: 378 meq/L	C/A Balance: -8.95 %	Calculated TDS: 18906	TDS/cTDS: 1.37
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.



Connor Williams
Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Work Order: **X310175**

Reported: 03-Oct-23 15:40

Client Sample ID: **Ecosa Seep-2**

Sampled: 12-Sep-23 07:32

Received: 13-Sep-23

Sampled By: PB

SVL Sample ID: **X310175-04 (Ground Water)****Sample Report Page 1 of 2**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	289	mg/L	1.00	0.690	10	X338172	JRR	09/22/23 11:47	D1
EPA 200.7	Magnesium	452	mg/L	5.00	0.900	10	X338172	JRR	09/22/23 11:47	D2
EPA 200.7	Potassium	< 5.00	mg/L	5.00	1.80	10	X338172	JRR	09/22/23 11:47	D1
SM 2340 B	Hardness (as CaCO3)	2700	mg/L	23.1	5.43		N/A		09/22/23 11:47	

Metals (Dissolved)

EPA 200.7	Aluminum	2990	mg/L	0.800	0.540	10	X337264	JRR	09/25/23 12:27	D2
EPA 200.7	Barium	< 0.0200	mg/L	0.0200	0.0190	10	X337264	JRR	09/25/23 12:27	D1
EPA 200.7	Beryllium	0.275	mg/L	0.0200	0.00800	10	X337264	JRR	09/25/23 12:27	D1
EPA 200.7	Boron	1.93	mg/L	0.400	0.0780	10	X337264	JRR	09/25/23 12:27	D1
EPA 200.7	Cadmium	15.4	mg/L	0.0200	0.0160	10	X337264	JRR	09/25/23 12:27	D1
EPA 200.7	Calcium	288	mg/L	1.00	0.690	10	X337264	JRR	09/25/23 12:27	D1
EPA 200.7	Chromium	0.869	mg/L	0.0600	0.0200	10	X337264	JRR	09/25/23 12:27	D1
EPA 200.7	Cobalt	8.72	mg/L	0.0600	0.0460	10	X337264	JRR	09/25/23 12:27	D1
EPA 200.7	Copper	35.3	mg/L	0.100	0.0270	10	X337264	JRR	09/25/23 12:27	D1
EPA 200.7	Iron	2450	mg/L	1.00	0.560	10	X337264	JRR	09/25/23 12:27	D2
EPA 200.7	Lead	< 0.0750	mg/L	0.0750	0.0490	10	X337264	JRR	09/25/23 12:27	D1
EPA 200.7	Lithium	0.567	mg/L	0.400	0.250	10	X337264	JRR	09/25/23 12:27	D1
EPA 200.7	Magnesium	481	mg/L	5.00	0.900	10	X337264	JRR	09/25/23 12:27	D1
EPA 200.7	Manganese	1310	mg/L	0.800	0.340	100	X337264	JRR	09/25/23 13:12	D2
EPA 200.7	Molybdenum	< 0.0800	mg/L	0.0800	0.0340	10	X337264	JRR	09/25/23 12:27	D1
EPA 200.7	Nickel	4.93	mg/L	0.100	0.0480	10	X337264	JRR	09/25/23 12:27	D1
EPA 200.7	Potassium	< 5.00	mg/L	5.00	1.80	10	X337264	JRR	09/25/23 12:27	D1
EPA 200.7	Silver	< 0.0500	mg/L	0.0500	0.0190	10	X337264	JRR	09/25/23 12:27	D1
EPA 200.7	Sodium	12.5	mg/L	5.00	1.20	10	X337264	JRR	09/25/23 12:27	D1
EPA 200.7	Vanadium	< 0.0500	mg/L	0.0500	0.0190	10	X337264	JRR	09/25/23 12:27	D1
EPA 200.7	Zinc	643	mg/L	1.00	0.540	100	X337264	JRR	09/25/23 13:15	D2
EPA 200.8	Antimony	< 0.100	mg/L	0.100	0.0720	100	X337235	SMU	09/26/23 12:51	D1
EPA 200.8	Arsenic	3.30	mg/L	0.100	0.0210	100	X337235	SMU	09/26/23 12:51	D1
EPA 200.8	Selenium	0.408	mg/L	0.100	0.0240	100	X337235	SMU	09/26/23 12:51	D1
EPA 200.8	Thallium	< 0.0200	mg/L	0.0200	0.00800	100	X337235	SMU	09/26/23 12:51	D1
EPA 200.8	Uranium	21.7	mg/L	0.0100	0.00520	100	X337235	SMU	09/26/23 12:51	D2

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X338012	NMS	09/20/23 13:03	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0500	mg/L	0.0500	0.0480	10	X338249	HJL	09/22/23 16:11	D1,Q12,Q20, Q26
EPA 335.4	Cyanide (total)	0.0065	mg/L	0.0050	0.0038		X338015	DD	09/19/23 13:25	
EPA 350.1	Ammonia as N	0.097	mg/L	0.030	0.013		X338083	JRR	09/26/23 12:28	
OIA 1677	Cyanide (WAD)	0.0050	mg/L	0.0050	0.0010		X339254	HJL	09/29/23 14:44	H1
SM 2310 B	Acidity to pH 8.3	20600	mg/L as CaCO3	10.0			X339051	MWD	09/26/23 13:25	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X337194	MWD	09/15/23 08:57	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X337194	MWD	09/15/23 08:57	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X337194	MWD	09/15/23 08:57	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X337194	MWD	09/15/23 08:57	
SM 2540 C	Total Diss. Solids	43400	mg/L	100			X337181	TJL	09/15/23 14:50	D2,E11
SM 2540 D	Total Susp. Solids	168	mg/L	5.0			X337182	TJL	09/17/23 17:35	
SM 4500 H B	pH @14.3°C	2.7	pH Units				X337194	MWD	09/15/23 08:57	H5

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 8 of 15



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Work Order: **X310175**

Reported: 03-Oct-23 15:40

Client Sample ID: **Ecosa Seep-2**SVL Sample ID: **X310175-04 (Ground Water)**

Sampled: 12-Sep-23 07:32

Received: 13-Sep-23

Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	< 20.0	mg/L	20.0	2.20	100	X337166	RS	09/13/23 12:26	D1
EPA 300.0	Fluoride	160	mg/L	10.0	1.70	100	X337166	RS	09/13/23 12:26	D2
EPA 300.0	Nitrate as N	< 5.00	mg/L	5.00	1.30	100	X337166	RS	09/13/23 12:26	D1
EPA 300.0	Nitrate+Nitrite as N	< 10.0	mg/L	10.0	4.40	100	X337166	RS	09/13/23 12:26	D1
EPA 300.0	Nitrite as N	< 5.00	mg/L	5.00	3.10	100	X337166	RS	09/13/23 12:26	D1
EPA 300.0	Sulfate as SO4	26400	mg/L	750	450	2500	X337166	RS	09/13/23 12:44	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 541 meq/L

Anion Sum: 559 meq/L

C/A Balance: -1.59 %

Calculated TDS: 27328

TDS/cTDS: 1.59

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Connor Williams

Project Manager

Surface Water Calculations

GV-06		
Sample Date:		9/12/2023
Data for Calculations:		
pH	6.41	std units
Hardness	151	mg/L
Temperature	8.4	Celsius
Regulation 32 (5 CCR 1002-32) COARUA24 Standards		
Physical	Acute	Chronic
pH (std. units)	6.5 - 9.0	---
Temperature (°C)	< 21.7	< 17
Inorganic	Acute (mg/L)	Chronic (mg/L)
Ammonia	6.741	33.639
Boron	0.750	---
Chloride	250.000	---
Chlorine	0.011	0.019
Cyanide (Free)	---	0.005
Fluoride	---	---
Nitrate	---	10.000
Nitrite	0.050	---
Sulfide	0.002	---
Sulfate	250.000	---
Phosphorus	0.110	---
Metals	Acute (mg/L)	Chronic (mg/L)
Arsenic	0.34000	---
Arsenic (T)	---	0.00002
Cadmium	0.00264	0.00098
Cadmium (T)	0.00500	---
Chromium (III)	---	0.10387
Chromium (III) (T)	0.05000	---
Hexavalent Chromium	0.01600	0.01100
Copper	0.01982	0.01274
Iron	---	0.30000
Iron (T)	---	1.00000
Lead	0.10085	0.00393
Lead (T)	0.05000	---
Manganese	3.42500	1.89231
Mercury (T)	---	0.00001
Molybdenum (T)	---	0.15000
Nickel	0.66356	0.07370
Nickel (T)	---	0.10000
Selenium	0.01840	0.00460
Silver	0.00412	0.00015
Uranium	3.78327	2.36313
Zinc	0.23275	0.17629

GV-06 Results	
Physical	
	6.41
	8.4
Inorganic	
	0.032
	<0.04
	8.89
	0.34
	<0.005
	0.516
	0.185
	<0.05
	<0.05
	62.6
	0.109
Metals	
	<0.001
	<0.005
	<0.0001
	<0.0005
	<0.006
	<0.011
	<0.005
	0.00065
	0.459
	3.51
	<0.0002
	0.0018
	0.73
	<0.000093
	<0.008
	<0.01
	<0.01
	<0.001
	<0.00008
	0.00126
	<0.01

* Hardness exceeds maximum value of 400 mg/L for use in equations per Colorado Regulation 32.

Bold text indicates that an Acute and/or Chronic standard has been exceeded.

Field Sheets

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co
Groundwater Sampling Log

Location : Grassy valley

Date: 9/12/23

Technician: P. Barela

Quarter: 3

Static Water Level (DTW): 49

Well ID: GVMW-25

Well Depth: 79

Is well Dry? NO

If so Dry at: —

feet

	Time	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
	12:19		3.91	5965	7.0	Started Pumping 2.75 u/m
50.2	12:24	1.2	3.88	5703	6.9	
50	12:29	1	3.81	6112	6.8	
50	12:34	1	3.75	6042	6.6	
50	12:39	1	3.73	5902	6.5	
50	12:44	1	3.69	5806	6.6	
50	12:49	1	3.69	5896	6.6	

Sample Method: LOW FLOW Rate (gpm): ~0.72 Time Start: 12:19 Time End: 12:49

Final Parameters	Stabilization Guidance	Met?	Comments
pH	3.69	0.1	☒ Y/N
Conductivity	5896	3%	☒ Y/N
Temp@	6.6	10%	☒ Y/N
Final H2O level	50	feet	

O/G visible: ☒ Y/N

Turbid? ☒ Y/N

Equipment Decontaminated: ☒ Y/N

Decontamination procedure used: USE new Filter & tubing. Collected duplicate
and rinse blank. Triple rinse w/ liquinox

Weather: clear, sunny

Signature: [Signature]

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co
Groundwater Sampling Log

Location : Grassy valleyDate: 9/12/23Technician: P. BarelaQuarter: 3Static Water Level (DTW): 6Well ID: Gvww-26AWell Depth: 70Is well Dry? NOIf so Dry at: — feet8.5
8.7
8.9
8.9
8.9
9

Time	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
9:46		7.19	311.4	6.6	Started Pumping 5.50 L/M
9:51	2.5	7.58	311.8	6.3	
9:56	2.7	7.77	311.7	6.7	
10:01	2.9	7.87	311.2	6.5	
10:06	2.9	7.90	309.5	6.4	
10:11	2.9	7.94	309.0	6.3	
10:16	3	7.95	309.5	6.5	

Sample Method: Low FlowRate (gpm): ~1.45 Time Start: 9:46 Time End: 10:16

Final Parameters	Stabilization Guidance	Met?	Comments
pH	7.95	0.1	Y/N
Conductivity	309.5	3%	Y/N
Temp©	6.5	10%	Y/N
Final H2O level	9	feet.	

O/G visible: Y/NTurbid? Y/NEquipment Decontaminated: Y/NDecontamination procedure used: use new filter & tubing. Triple rinse w/liquinoxbefore samplingWeather: Sunny, clearSignature: [Signature]

[Handwritten signature]

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location: GV-06Date: 9/12/23Technician: P. BarelaQuarter: 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
8:40	6.41	351.8	8.4	

Sample Method: GrabOil/Gas visible ☒ [Y/N]Turbid ☒ [Y/N] slight dirt in waterClear ☒ [Y/N]Weather: clear, sunnySignature: 

Comments:

use new filter & tubing

Picu

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location: Ecosa Seep-1Date: 9/12/23Technician: P. BarelaQuarter: 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
7:48	2.46	11.13	6.9	

Sample Method: GrabOil/Gas visible [Y/☒N]Turbid [☒Y/N]Clear [Y/☒N]Weather: Clear, SunnySignature: 

Comments:

use new tubing & filter

PIC ✓

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location: Ecosamp-2Date: 9/12/23Technician: P. BarciaQuarter: 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
7:32	2.27	13.76	6.8	

Sample Method: GrabOil/Gas visible [Y/N] NTurbid [Y/N] NClear [Y/N] NWeather: Clear, sunnySignature: [Signature]

Comments:

Use new Filter & tubing

PIC ✓

QA/QC

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Work Order: **X310175**

Reported: 03-Oct-23 15:40

Client Sample ID: **GVMW-125**

Sampled: 12-Sep-23 12:49

SVL Sample ID: **X310175-02 (Ground Water)**

Received: 13-Sep-23

Sampled By: PB

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	662	mg/L	1.00	0.690	10	X338172	JRR	09/22/23 13:53	D2,M4
EPA 200.7	Magnesium	319	mg/L	0.500	0.090		X338172	JRR	09/22/23 11:40	
EPA 200.7	Potassium	8.06	mg/L	0.50	0.18		X338172	JRR	09/22/23 11:40	
SM 2340 B	Hardness (as CaCO3)	2960	mg/L	4.56	2.09		N/A		09/22/23 11:40	

Metals (Dissolved)

EPA 200.7	Aluminum	443	mg/L	0.080	0.054		X337264	JRR	09/25/23 12:20	
EPA 200.7	Barium	0.0060	mg/L	0.0020	0.0019		X337264	JRR	09/25/23 12:20	
EPA 200.7	Beryllium	0.291	mg/L	0.00200	0.00080		X337264	JRR	09/25/23 12:20	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X337264	JRR	09/25/23 12:20	
EPA 200.7	Cadmium	0.899	mg/L	0.0020	0.0016		X337264	JRR	09/25/23 12:20	
EPA 200.7	Calcium	722	mg/L	0.100	0.069		X337264	JRR	09/25/23 12:20	
EPA 200.7	Chromium	0.0752	mg/L	0.0060	0.0020		X337264	JRR	09/25/23 12:20	
EPA 200.7	Cobalt	1.04	mg/L	0.0060	0.0046		X337264	JRR	09/25/23 12:20	
EPA 200.7	Copper	1.24	mg/L	0.0100	0.0027		X337264	JRR	09/25/23 12:20	
EPA 200.7	Iron	1.60	mg/L	0.100	0.056		X337264	JRR	09/25/23 12:20	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X337264	JRR	09/25/23 12:20	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X337264	JRR	09/25/23 12:20	
EPA 200.7	Magnesium	318	mg/L	0.500	0.090		X337264	JRR	09/25/23 12:20	
EPA 200.7	Manganese	128	mg/L	0.0800	0.0340	10	X337264	JRR	09/25/23 13:08	D2
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X337264	JRR	09/25/23 12:20	
EPA 200.7	Nickel	1.50	mg/L	0.0100	0.0048		X337264	JRR	09/25/23 12:20	
EPA 200.7	Potassium	6.26	mg/L	0.50	0.18		X337264	JRR	09/25/23 12:20	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X337264	JRR	09/25/23 12:20	
EPA 200.7	Sodium	47.0	mg/L	0.50	0.12		X337264	JRR	09/25/23 12:20	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X337264	JRR	09/25/23 12:20	
EPA 200.7	Zinc	32.9	mg/L	0.0100	0.0054		X337264	JRR	09/25/23 12:20	
EPA 200.8	Antimony	< 0.100	mg/L	0.100	0.0720	100	X337235	SMU	09/26/23 13:43	D1
EPA 200.8	Arsenic	< 0.100	mg/L	0.100	0.0210	100	X337235	SMU	09/26/23 13:43	D1
EPA 200.8	Selenium	< 0.100	mg/L	0.100	0.0240	100	X337235	SMU	09/27/23 14:56	D1
EPA 200.8	Thallium	< 0.0200	mg/L	0.0200	0.00800	100	X337235	SMU	09/26/23 13:43	D1
EPA 200.8	Uranium	0.808	mg/L	0.0100	0.00520	100	X337235	SMU	09/26/23 13:43	D1

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X338012	NMS	09/20/23 12:59	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X338249	HJL	09/22/23 16:07	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X338015	DD	09/19/23 13:20	M2
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X338083	JRR	09/26/23 12:24	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X339254	HJL	09/29/23 14:41	H1
SM 2310 B	Acidity to pH 8.3	2600	mg/L as CaCO3	10.0			X339051	MWD	09/26/23 13:25	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X337194	MWD	09/14/23 14:35	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X337194	MWD	09/14/23 14:35	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X337194	MWD	09/14/23 14:35	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X337194	MWD	09/14/23 14:35	
SM 2540 C	Total Diss. Solids	8500	mg/L	40			X337181	TJL	09/15/23 14:50	D2
SM 2540 D	Total Susp. Solids	34.0	mg/L	5.0			X337182	TJL	09/17/23 17:35	
SM 4500 H B	pH @19.7°C	3.7	pH Units				X337194	MWD	09/14/23 14:35	H5



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Work Order: **X310175**

Reported: 03-Oct-23 15:40

Client Sample ID: **GVMW-125**SVL Sample ID: **X310175-02 (Ground Water)**

Sampled: 12-Sep-23 12:49

Received: 13-Sep-23

Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	30.1	mg/L	1.00	0.11	5	X337166	RS	09/14/23 00:07	D2
EPA 300.0	Fluoride	43.5	mg/L	10.0	1.70	100	X337166	RS	09/14/23 00:26	D2
EPA 300.0	Nitrate as N	2.85	mg/L	0.250	0.065	5	X337166	RS	09/14/23 00:07	D1
EPA 300.0	Nitrate+Nitrite as N	2.85	mg/L	0.500	0.220	5	X337166	RS	09/14/23 00:07	D1
EPA 300.0	Nitrite as N	< 0.250	mg/L	0.250	0.155	5	X337166	RS	09/14/23 00:07	D1
EPA 300.0	Sulfate as SO4	5760	mg/L	75.0	45.0	250	X337166	RS	09/14/23 21:00	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 116 meq/L

Anion Sum: 123 meq/L

C/A Balance: -2.85 %

Calculated TDS: 6911

TDS/cTDS: 1.23

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Connor Williams

Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Work Order: **X310177**

Reported: 03-Oct-23 16:17

Client Sample ID: **RB-0912**

Sampled: 12-Sep-23 11:23

Received: 13-Sep-23

Sampled By: PB

SVL Sample ID: **X310177-02 (Ground Water)****Sample Report Page 1 of 2**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	< 0.100	mg/L	0.100	0.069		X338171	JRR	09/22/23 10:28	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X338171	JRR	09/22/23 10:28	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X338171	JRR	09/22/23 10:28	
SM 2340 B	Hardness (as CaCO ₃)	< 2.31	mg/L	2.31	0.543		N/A		09/22/23 10:28	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X339075	JRR	09/26/23 10:48	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X339075	JRR	09/26/23 10:48	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X339075	JRR	09/26/23 10:48	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X339075	JRR	09/26/23 10:48	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X339075	JRR	09/26/23 10:48	
EPA 200.7	Calcium	< 0.100	mg/L	0.100	0.069		X339075	JRR	09/26/23 10:48	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X339075	JRR	09/26/23 10:48	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X339075	JRR	09/26/23 10:48	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X339075	JRR	09/26/23 10:48	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X339075	JRR	09/26/23 10:48	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X339075	JRR	09/26/23 12:57	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X339075	JRR	09/26/23 10:48	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X339075	JRR	09/26/23 10:48	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X339075	JRR	09/26/23 10:48	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X339075	JRR	09/26/23 10:48	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X339075	JRR	09/26/23 10:48	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X339075	JRR	09/26/23 10:48	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X339075	JRR	09/26/23 10:48	
EPA 200.7	Sodium	0.82	mg/L	0.50	0.12		X339075	JRR	09/26/23 10:48	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X339075	JRR	09/26/23 10:48	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X339075	JRR	09/26/23 10:48	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X337235	SMU	09/26/23 13:05	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X337235	SMU	09/26/23 13:05	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X337235	SMU	09/26/23 13:05	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X337235	SMU	09/26/23 13:05	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X337235	SMU	09/26/23 13:05	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X338012	NMS	09/20/23 13:07	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X338249	HJL	09/22/23 16:15	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X338015	DD	09/19/23 13:42	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X338083	JRR	09/26/23 12:32	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X339254	HJL	09/29/23 14:47	H1
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO ₃	10.0			X339051	MWD	09/26/23 13:25	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO ₃	1.0			X337194	MWD	09/15/23 09:17	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO ₃	1.0			X337194	MWD	09/15/23 09:17	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X337194	MWD	09/15/23 09:17	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO ₃	1.0			X337194	MWD	09/15/23 09:17	
SM 2540 C	Total Diss. Solids	< 10	mg/L	10			X337181	TJL	09/15/23 14:50	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X337182	TJL	09/17/23 17:35	
SM 4500 H B	pH @16.9°C	5.6	pH Units				X337194	MWD	09/15/23 09:17	H5

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 4 of 18



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Work Order: **X310177**

Reported: 03-Oct-23 16:17

Client Sample ID: **RB-0912**SVL Sample ID: **X310177-02 (Ground Water)**

Sampled: 12-Sep-23 11:23

Received: 13-Sep-23

Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	< 0.20	mg/L	0.20	0.02		X337167	RS	09/13/23 15:30	
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.017		X337167	RS	09/13/23 15:30	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X337167	RS	09/13/23 15:30	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X337167	RS	09/13/23 15:30	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X337167	RS	09/13/23 15:30	
EPA 300.0	Sulfate as SO4	< 0.30	mg/L	0.30	0.18		X337167	RS	09/13/23 15:30	

Cation/Anion Balance and TDS Ratios

Cation Sum: 0.06 meq/L

Anion Sum: 0.03 meq/L

C/A Balance: 38.42 %

Calculated TDS: 1

TDS/cTDS: 0.00

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Connor Williams

Project Manager

Map

Seep 2

Seep 1

GVMW-25

GV-06

GVMW 26B-30

GVMW 26A-70

Legend

- Seep Locations
- Ground Water
- Surface Water
- A13 Boundary

Newmont
CRIPPLE CREEK & VICTOR

NEWMONT

Cripple Creek and Victor Gold Mining Company

Grassy Valley Monthly Monitoring



Author: A. Matarrese

File: CC&V Grassy Monthly Map

Date: 09/2023

0 550 1,100 2,200 Feet