



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

November 22, 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 October 2023 Report Submission, November 22, 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 October, 2023.

At groundwater monitoring location GVMW-25, increased concentrations of several parameters have been observed during the October 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



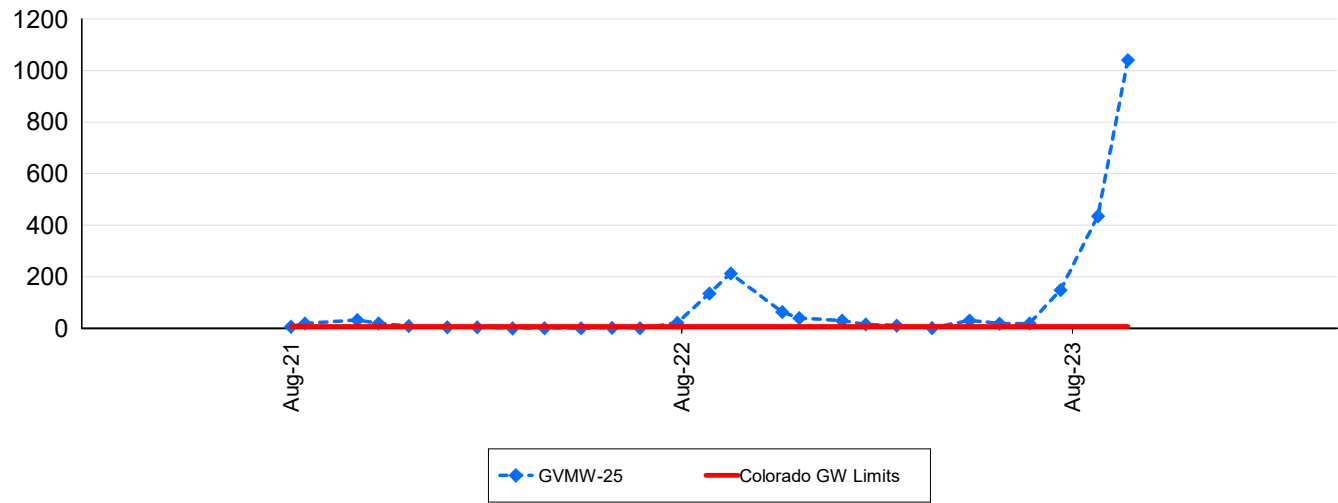
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Gold Mining Company

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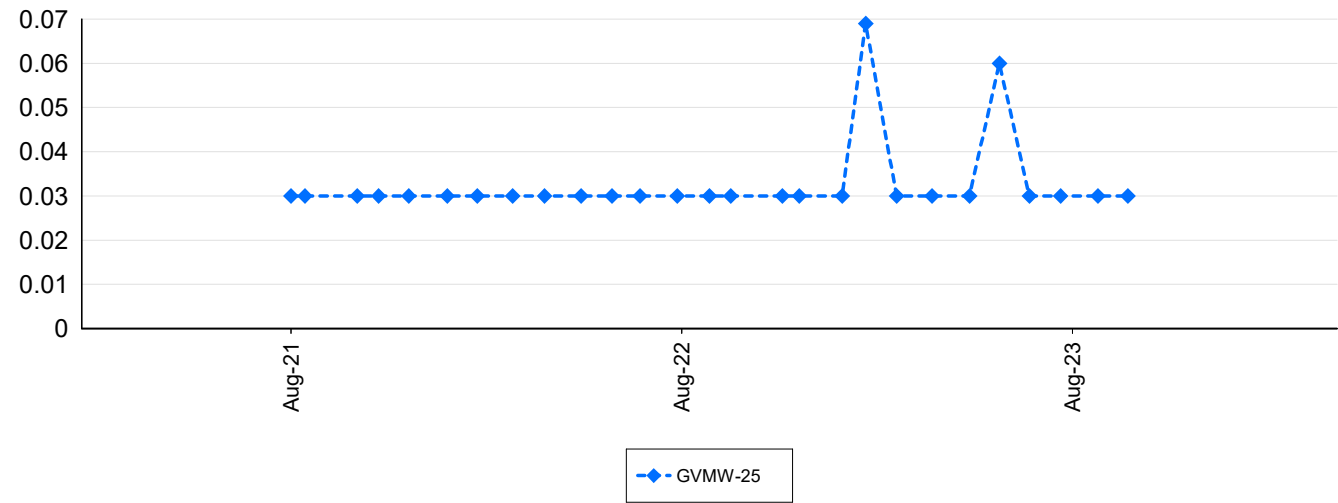
P 719.689.2977
F 719.689.3254
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Attachment A

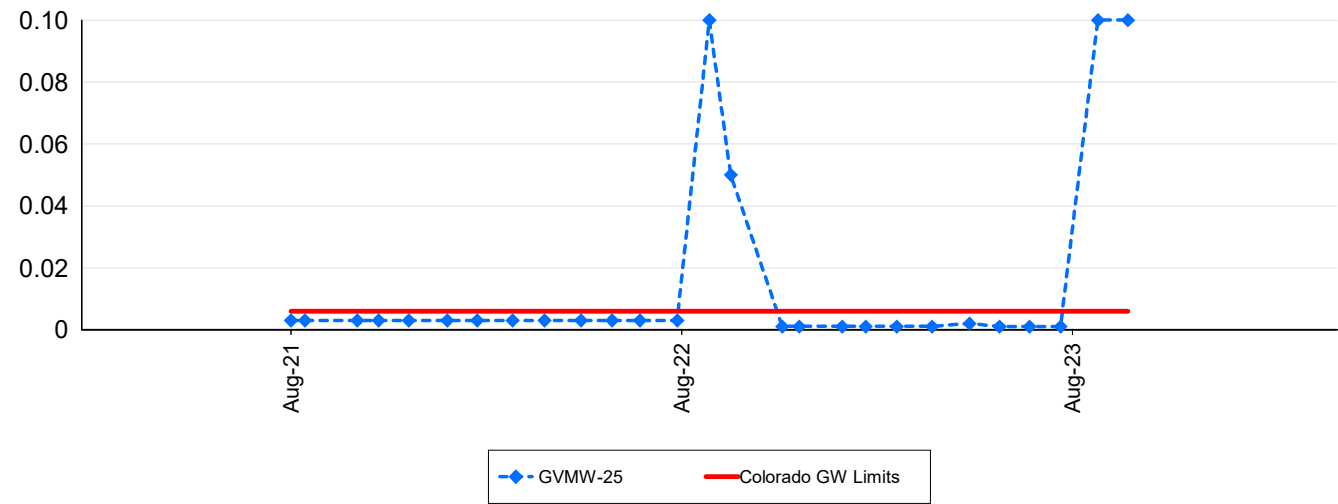
: Aluminium - Dissolved (mg/L)



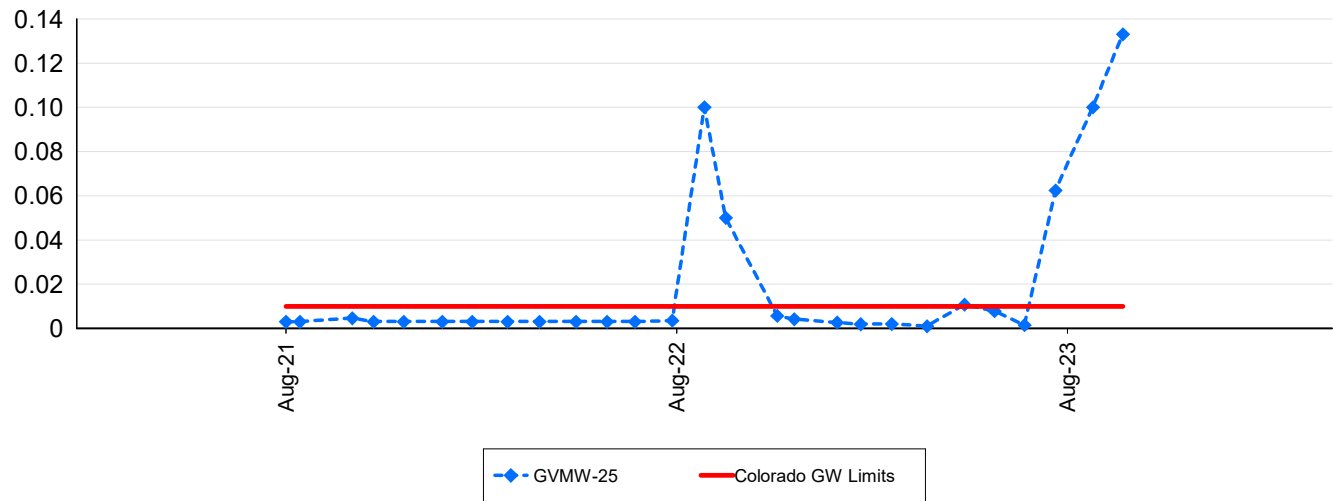
: Ammonia (mg/L)



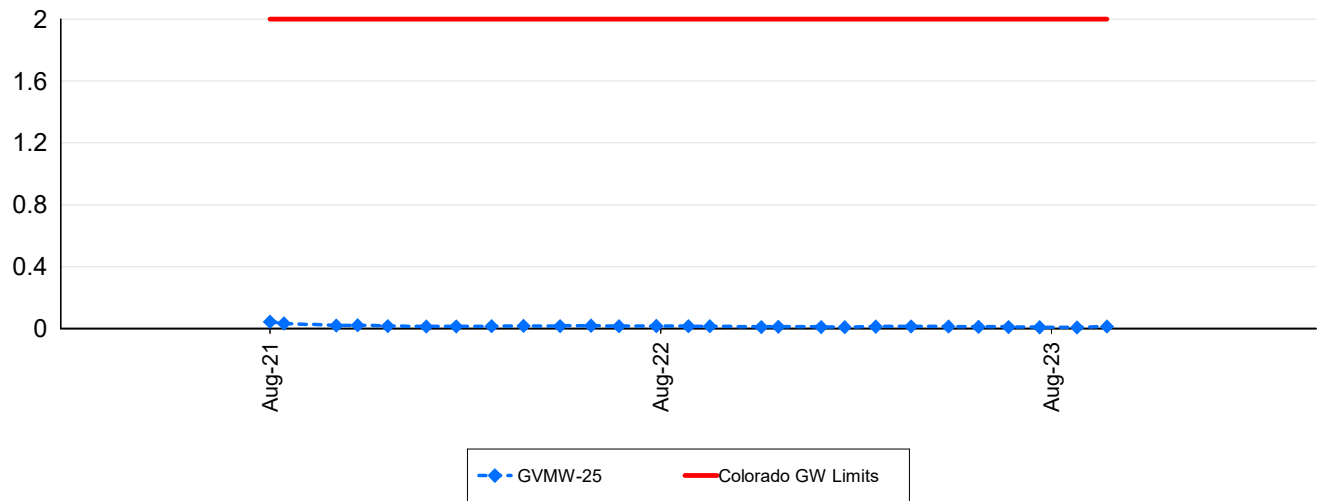
: Antimony - Dissolved (mg/L)



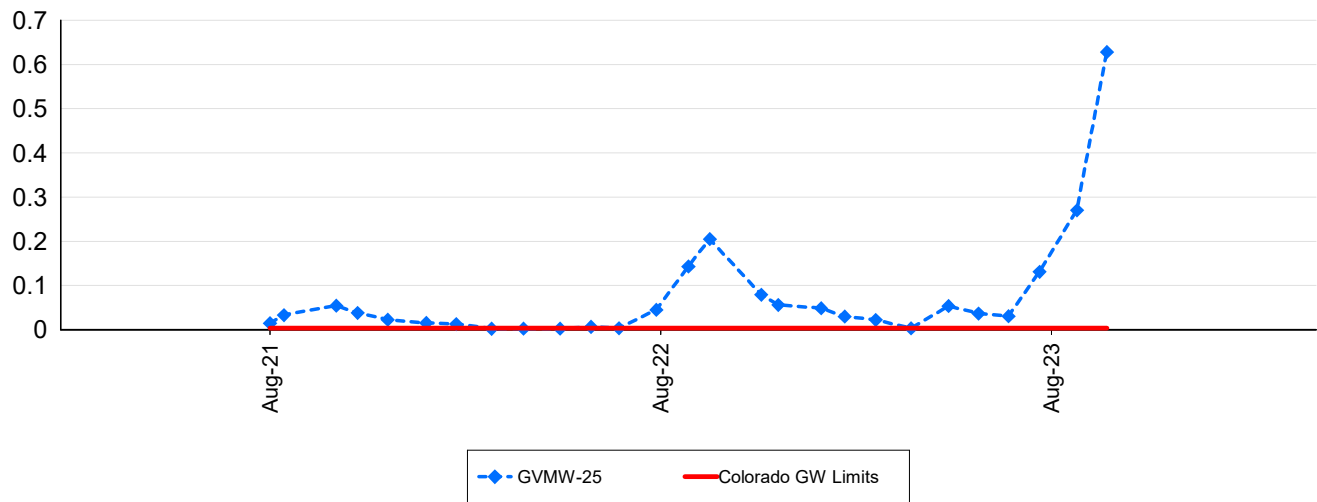
: Arsenic - Dissolved (mg/L)



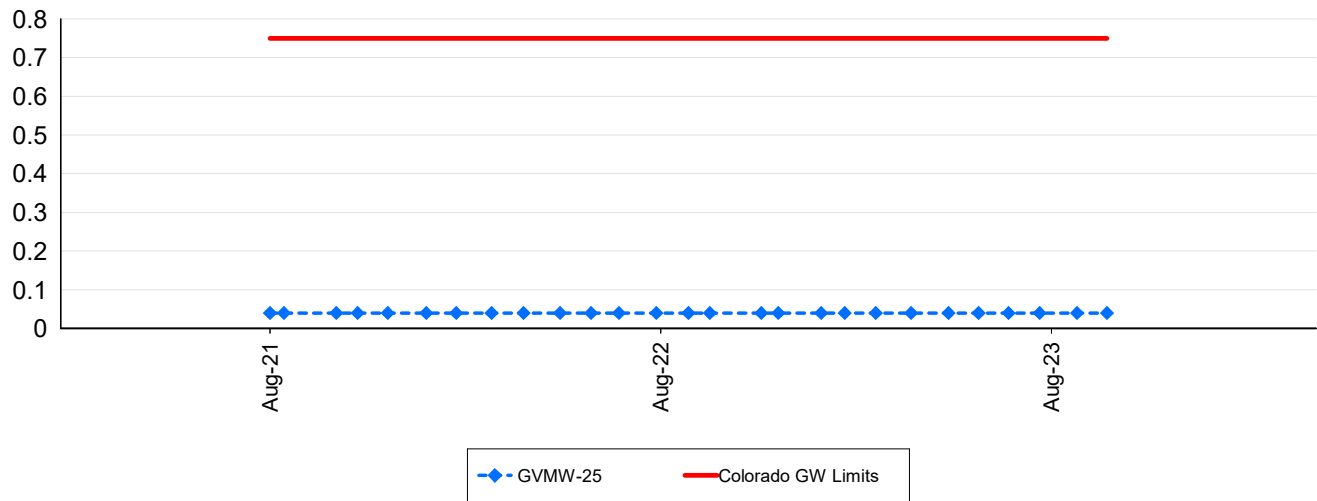
: Barium - Dissolved (mg/L)



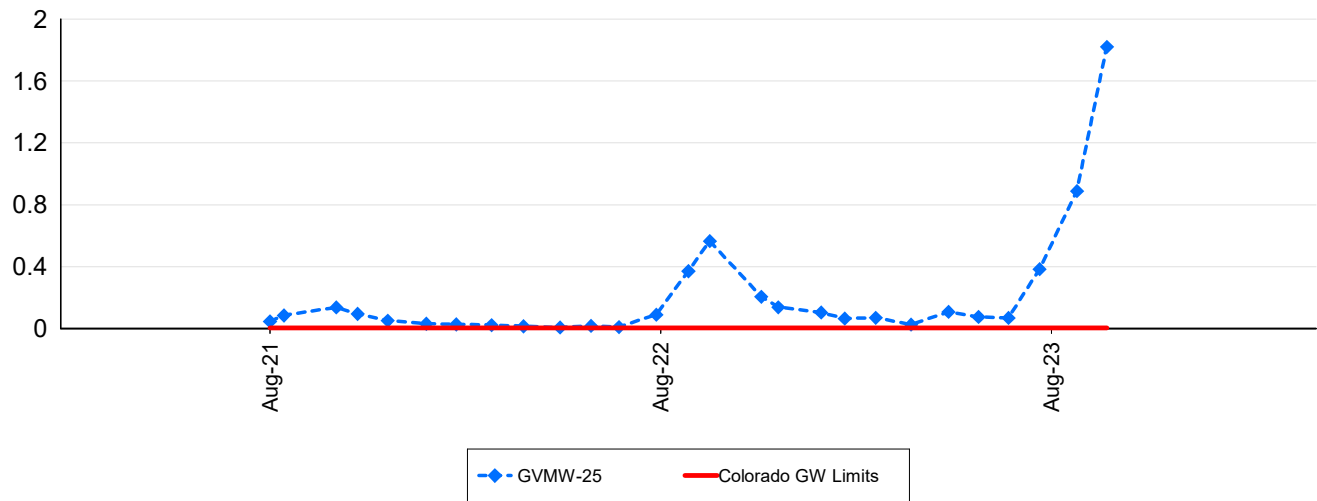
: Beryllium - Dissolved (mg/L)



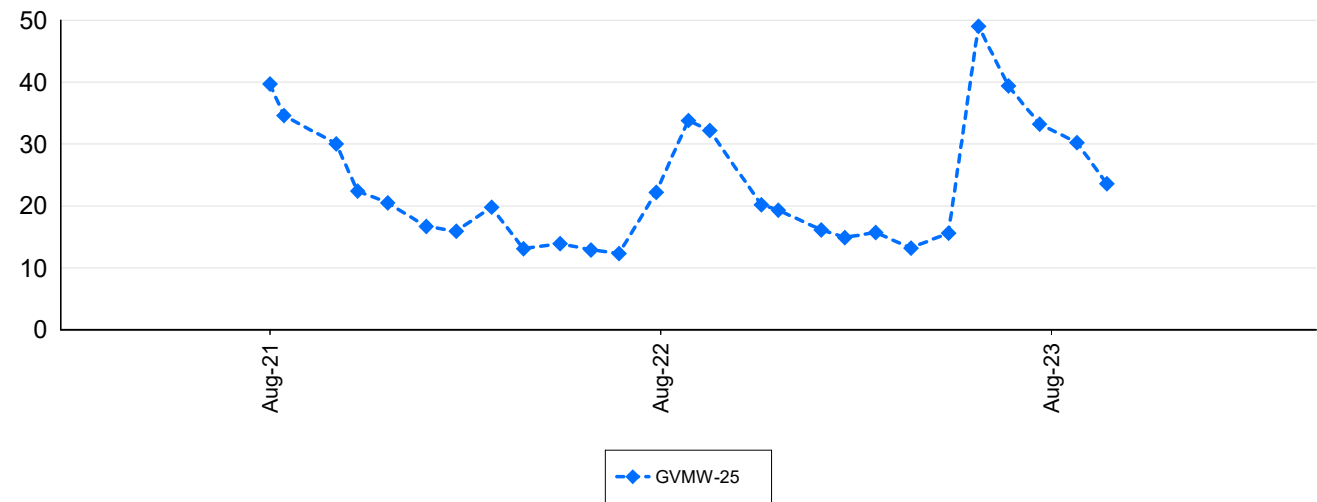
: Boron - Dissolved (mg/L)



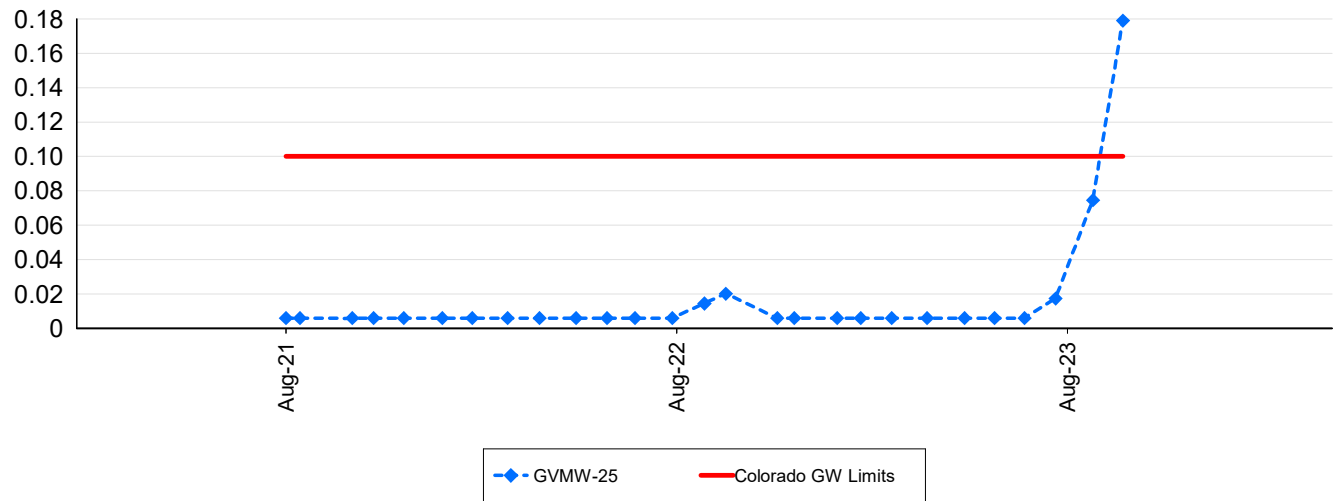
: Cadmium - Dissolved (mg/L)



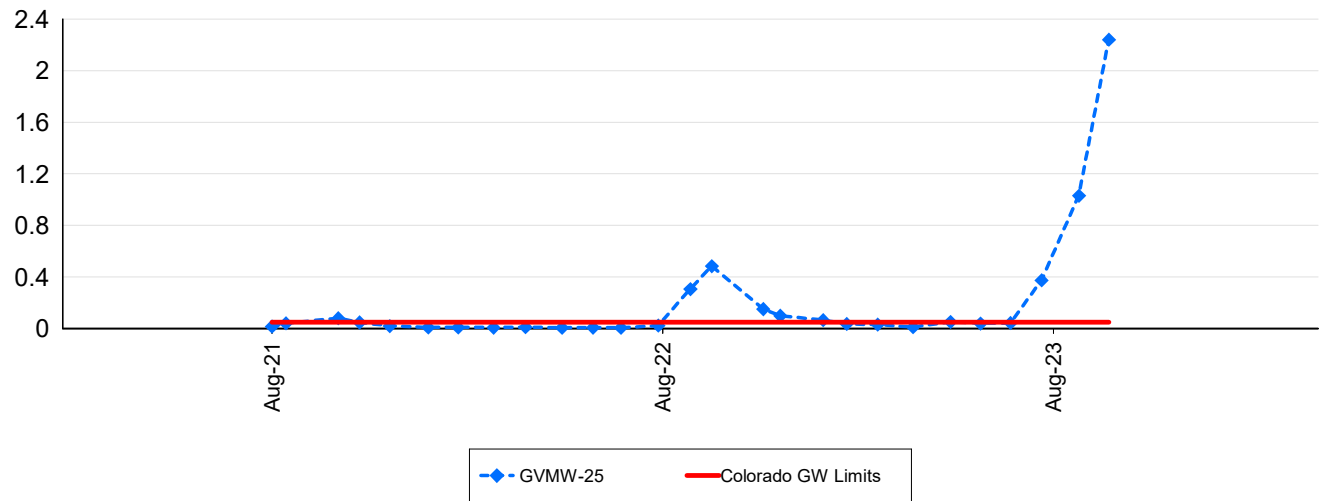
: Chloride - Total (mg/L)



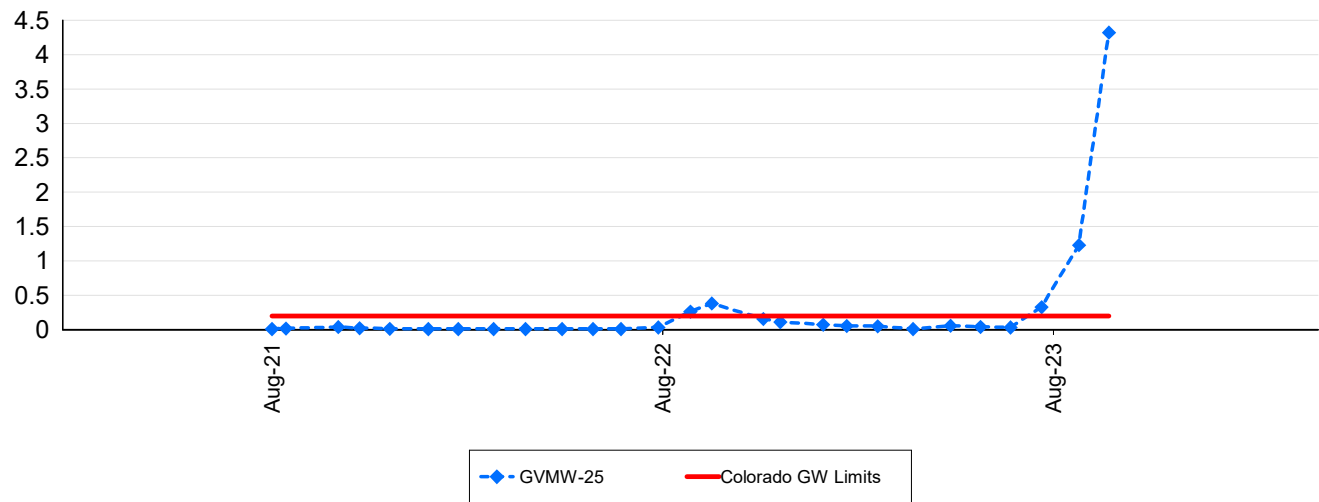
: Chromium - Dissolved (mg/L)



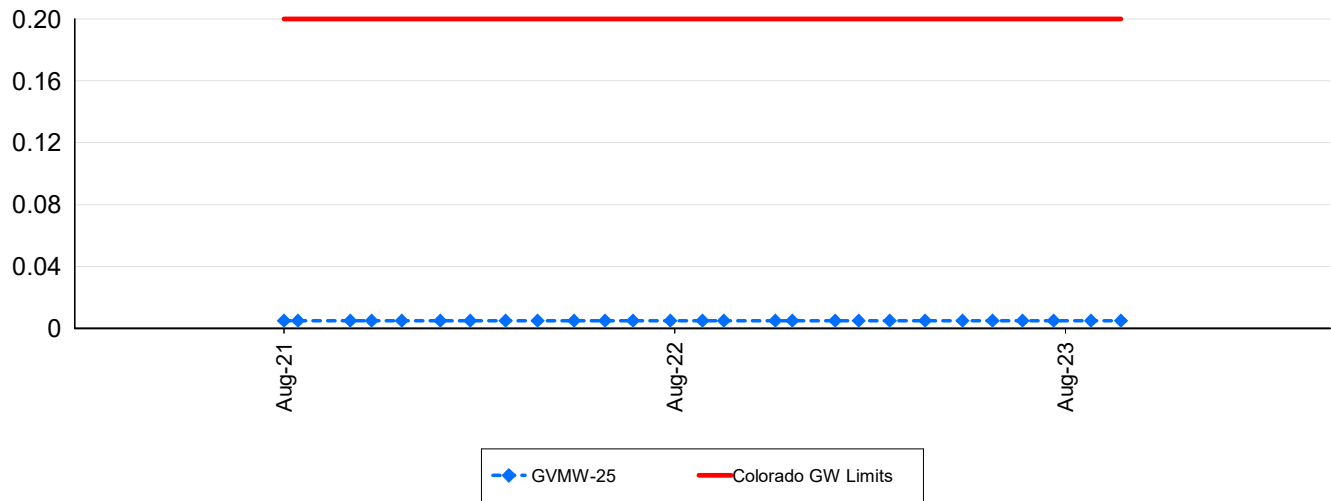
: Cobalt - Dissolved (mg/L)



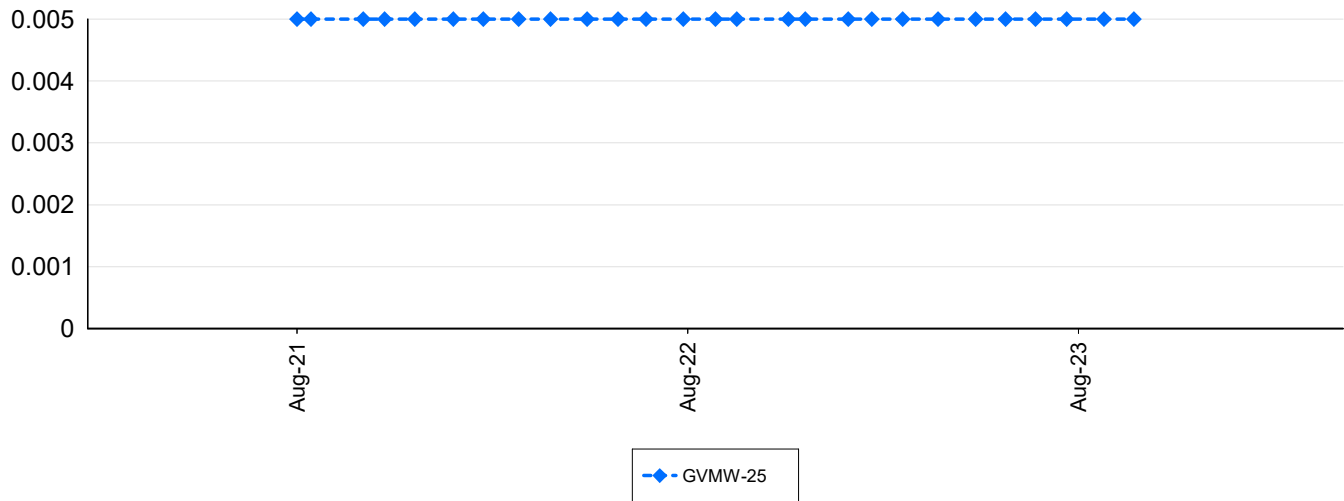
: Copper - Dissolved (mg/L)



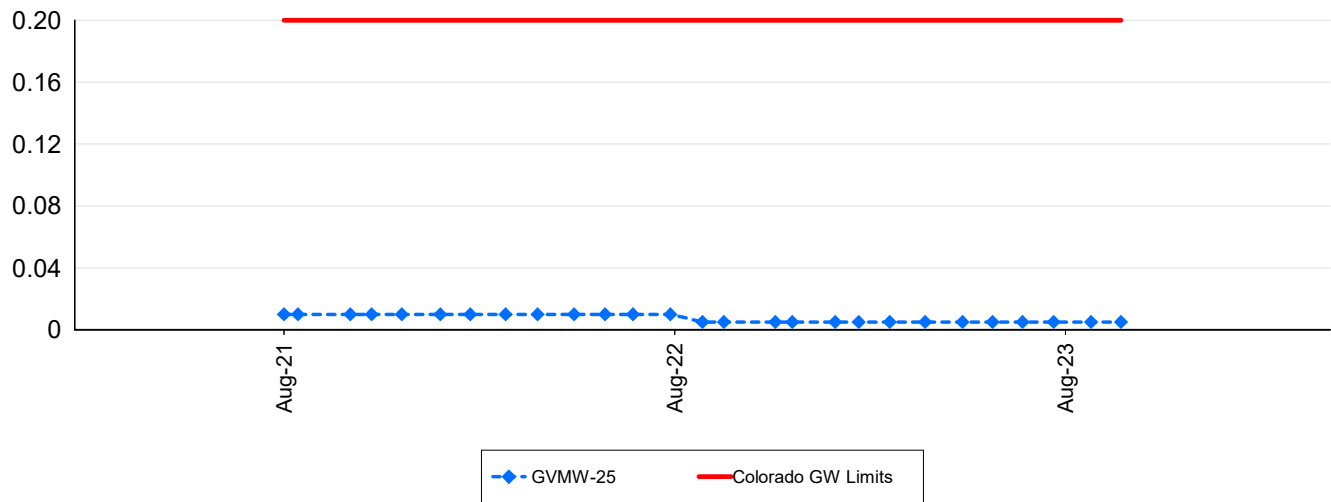
: Cyanide - Free (mg/L)

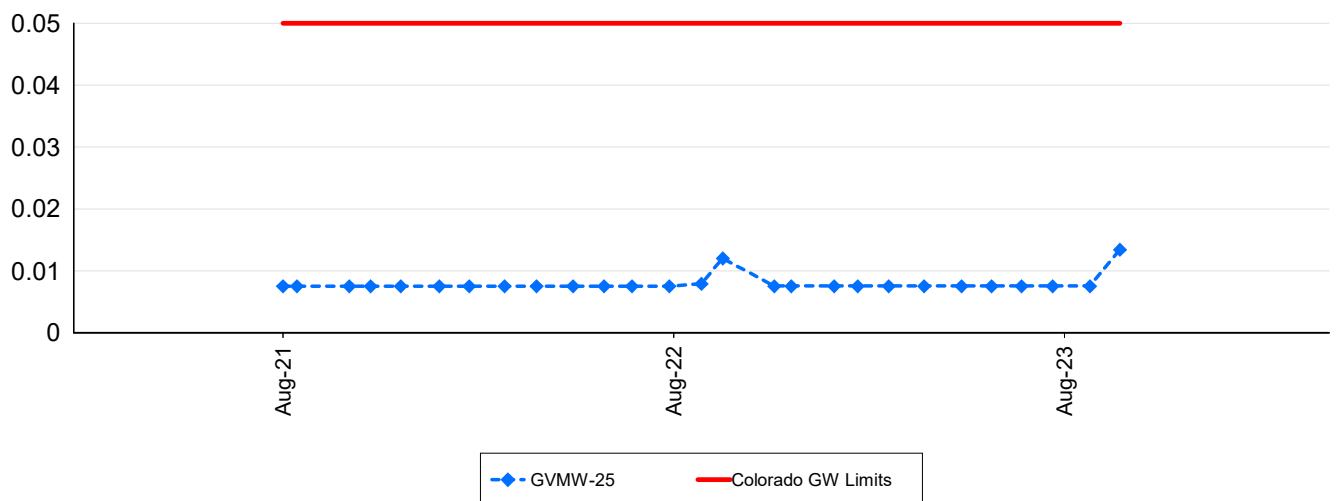


: Cyanide - Total (mg/L)

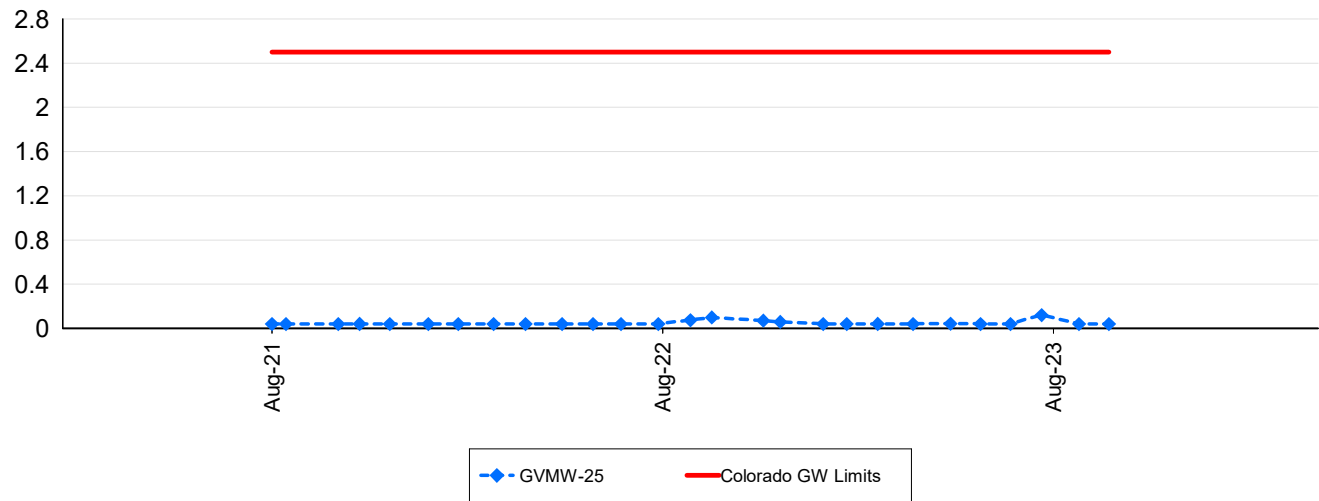


: Cyanide - WAD (mg/L)

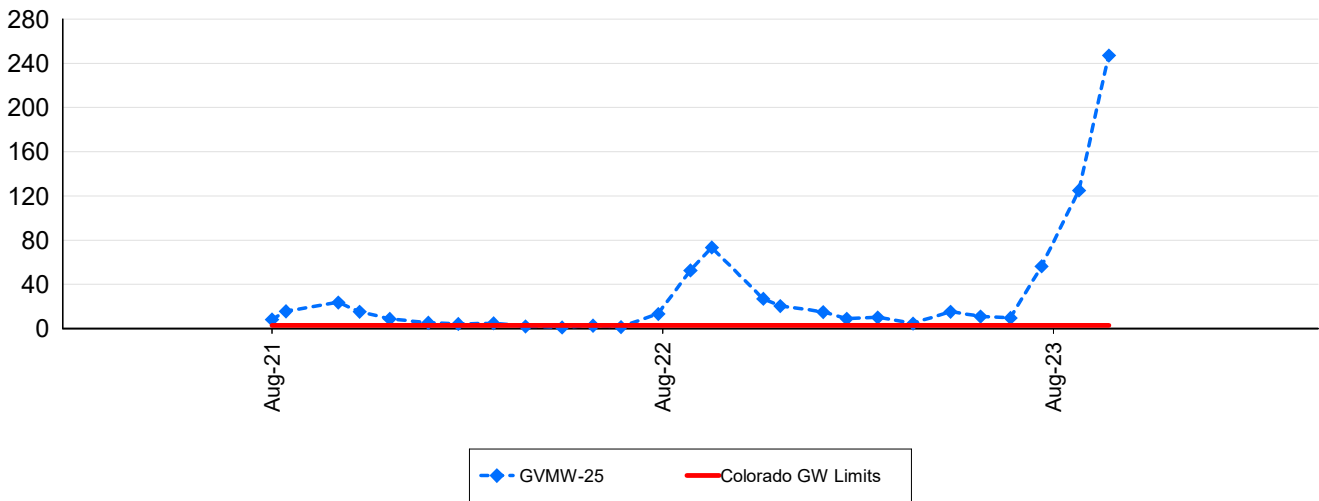




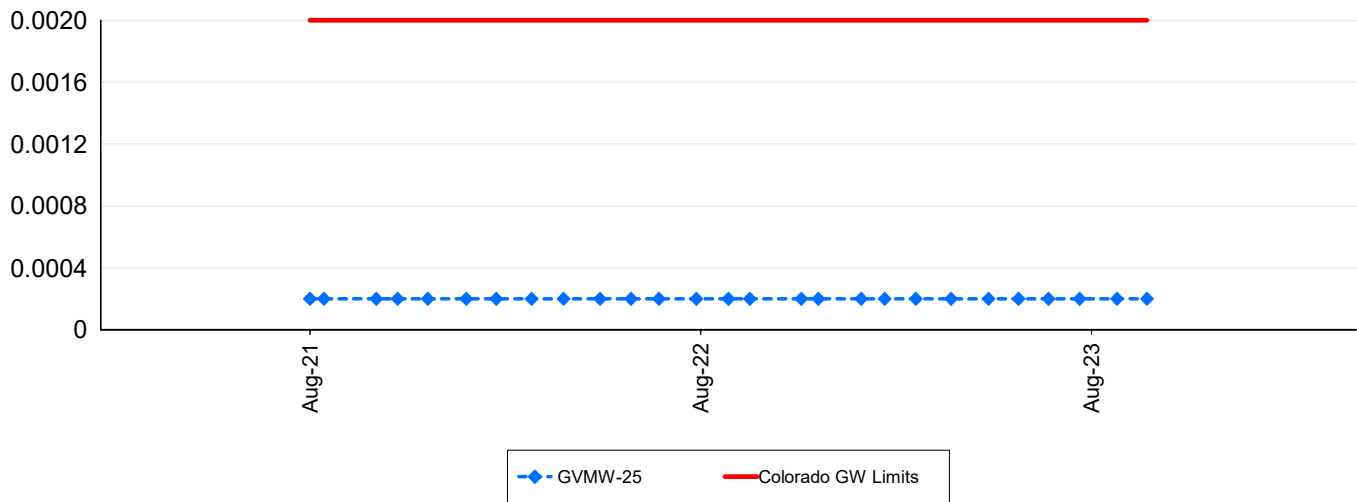
: Lithium - Dissolved (mg/L)



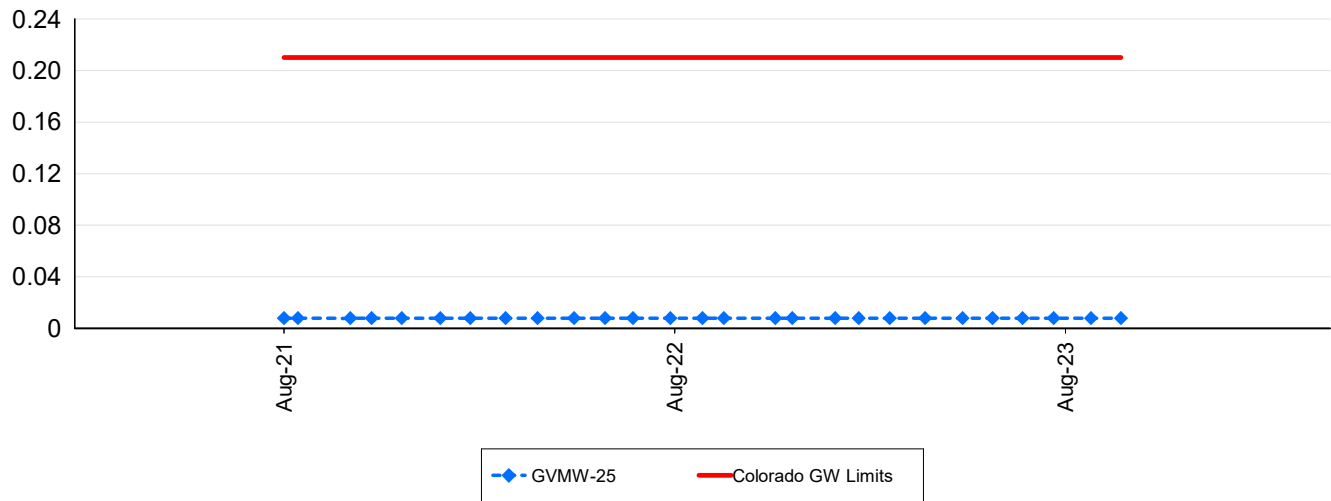
: Manganese - Dissolved (mg/L)



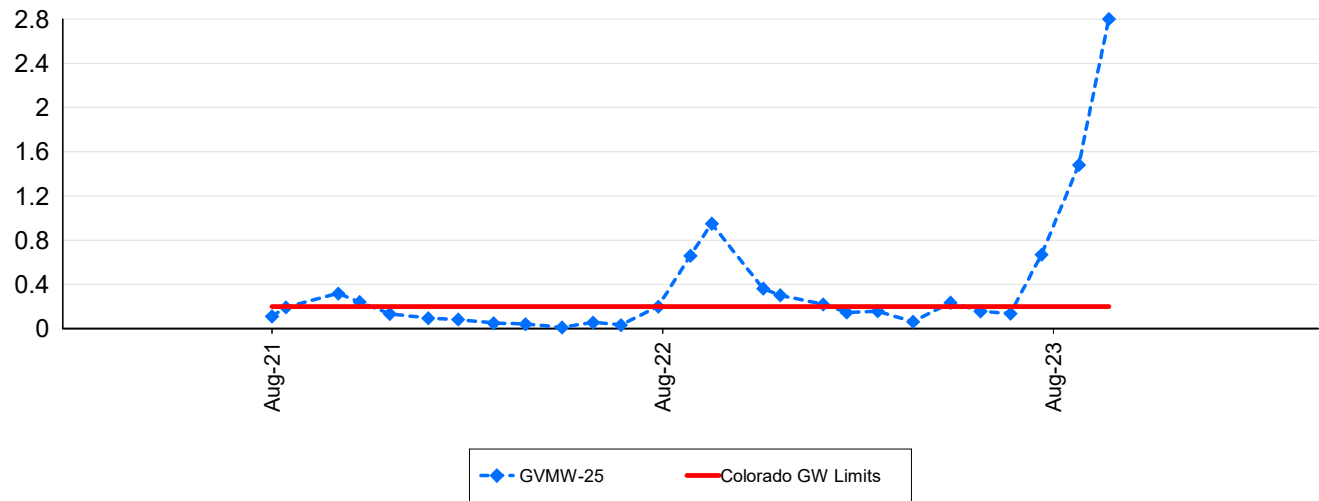
: Mercury - Dissolved (mg/L)



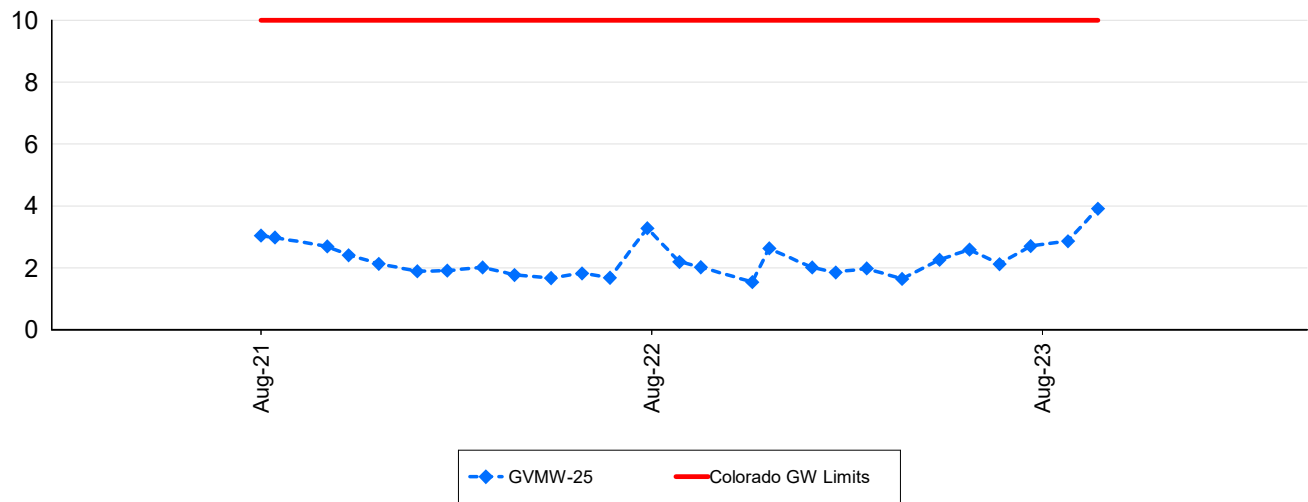
: Molybdenum - Dissolved (mg/L)

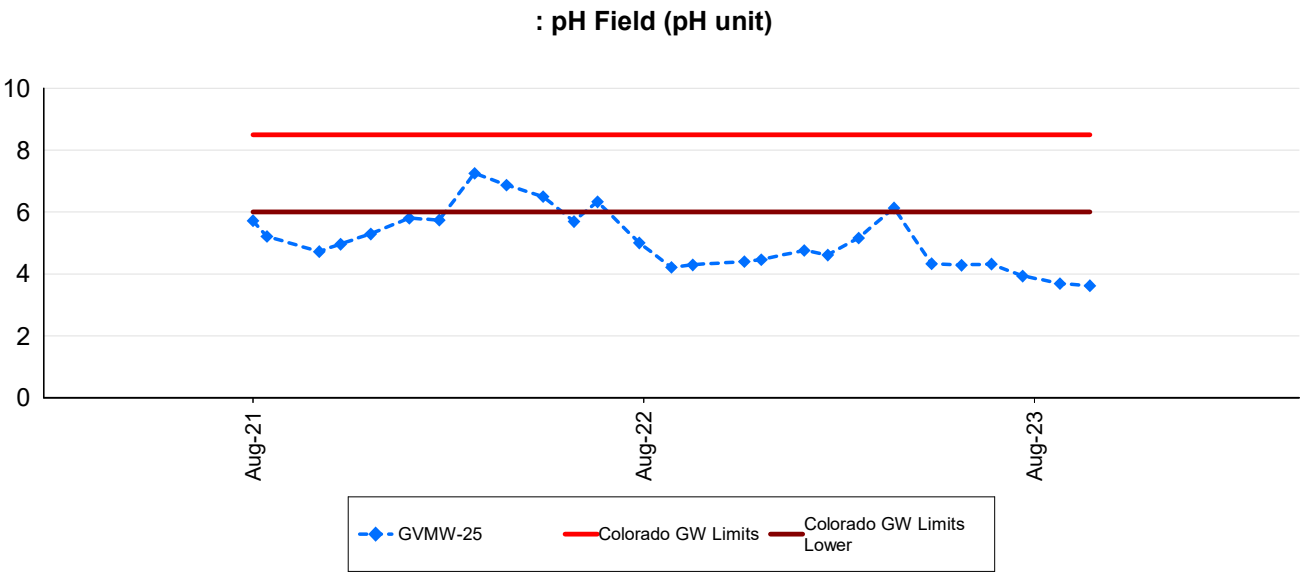
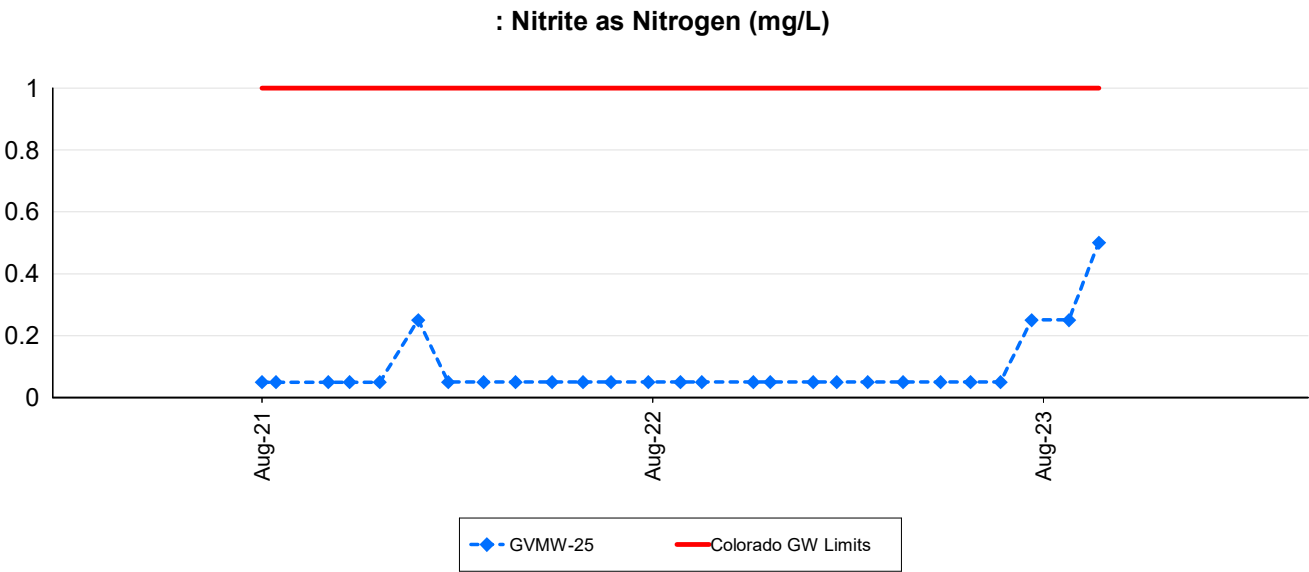
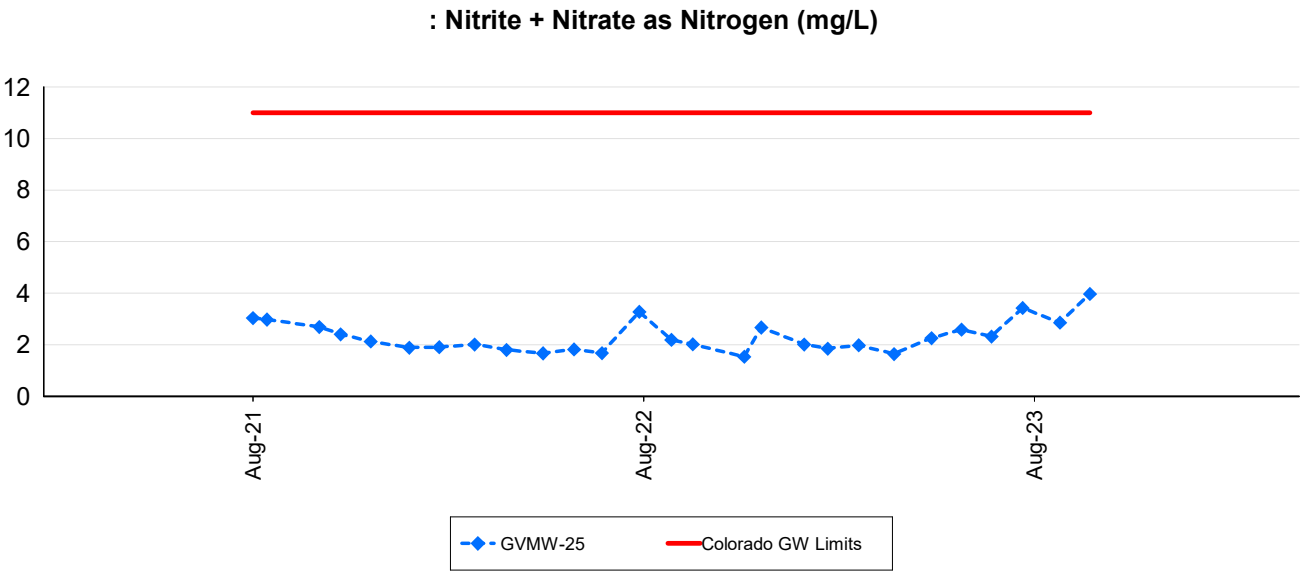


: Nickel - Dissolved (mg/L)

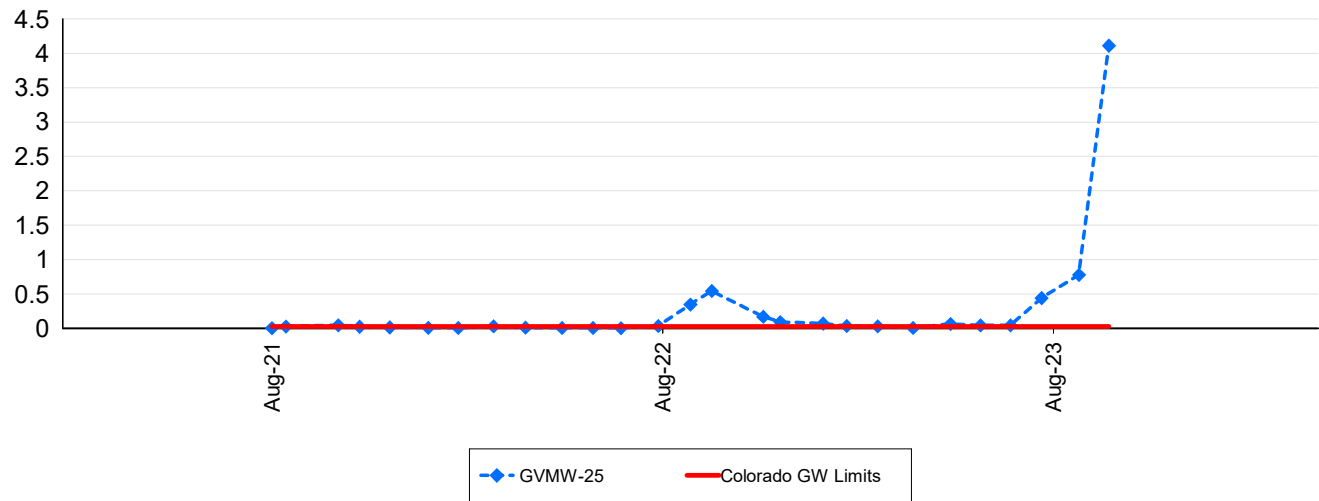


: Nitrate as Nitrogen (mg/L)

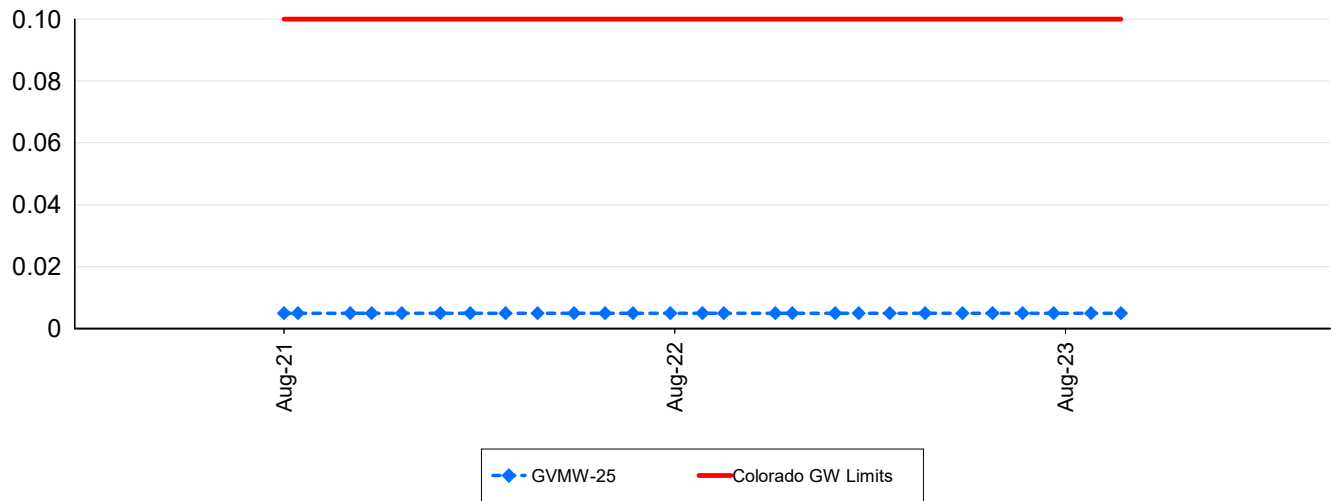




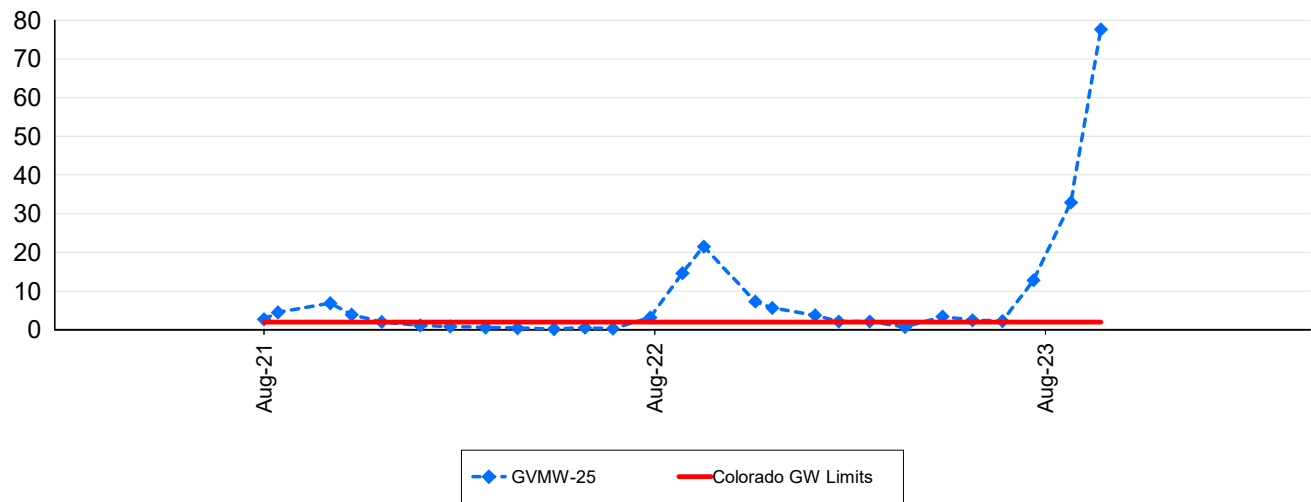
: Uranium - Dissolved (mg/L)



: Vanadium - Dissolved (mg/L)



: Zinc - Dissolved (mg/L)



Analytical Reports

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Work Order: **X3J0204**

Reported: 25-Oct-23 15:08

Client Sample ID: **GVMW-25**SVL Sample ID: **X3J0204-01 (Ground Water)**

Sampled: 10-Oct-23 12:31

Received: 11-Oct-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	619	mg/L	0.500	0.345	5	X342014	JRR	10/17/23 12:37	D2,M4
EPA 200.7	Magnesium	444	mg/L	2.50	0.450	5	X342014	JRR	10/17/23 12:37	D1
EPA 200.7	Potassium	9.20	mg/L	2.50	0.90	5	X342014	JRR	10/17/23 12:37	D1
SM 2340 B	Hardness (as CaCO3)	3430	mg/L	2.31	0.543		N/A		10/17/23 12:37	

Metals (Dissolved)

EPA 200.7	Aluminum	1040	mg/L	0.800	0.540	10	X342204	JRR	10/24/23 11:47	D2,M4
EPA 200.7	Barium	0.0133	mg/L	0.0020	0.0019		X342204	JRR	10/24/23 10:06	
EPA 200.7	Beryllium	0.628	mg/L	0.00200	0.00080		X342204	JRR	10/25/23 09:11	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X342204	JRR	10/24/23 10:06	
EPA 200.7	Cadmium	1.82	mg/L	0.0020	0.0016		X342204	JRR	10/24/23 10:06	
EPA 200.7	Calcium	613	mg/L	0.100	0.069		X342204	JRR	10/24/23 10:06	
EPA 200.7	Chromium	0.179	mg/L	0.0060	0.0020		X342204	JRR	10/24/23 10:06	
EPA 200.7	Cobalt	2.24	mg/L	0.0060	0.0046		X342204	JRR	10/24/23 10:06	
EPA 200.7	Copper	4.32	mg/L	0.0100	0.0027		X342204	JRR	10/24/23 10:06	
EPA 200.7	Iron	8.02	mg/L	0.100	0.056		X342204	JRR	10/24/23 10:06	
EPA 200.7	Lead	0.0134	mg/L	0.0075	0.0049		X342204	JRR	10/24/23 10:06	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X342204	JRR	10/24/23 10:06	M2
EPA 200.7	Magnesium	461	mg/L	0.500	0.090		X342204	JRR	10/24/23 10:06	
EPA 200.7	Manganese	247	mg/L	0.0800	0.0340	10	X342204	JRR	10/24/23 11:47	D2,M4
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X342204	JRR	10/24/23 10:06	
EPA 200.7	Nickel	2.80	mg/L	0.0100	0.0048		X342204	JRR	10/24/23 10:06	
EPA 200.7	Potassium	7.48	mg/L	0.50	0.18		X342204	JRR	10/24/23 10:06	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X342204	JRR	10/24/23 13:02	M2
EPA 200.7	Sodium	45.7	mg/L	0.50	0.12		X342204	JRR	10/24/23 10:06	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X342204	JRR	10/24/23 10:06	
EPA 200.7	Zinc	77.6	mg/L	0.100	0.0540	10	X342204	JRR	10/24/23 11:47	D2,M4
EPA 200.8	Antimony	< 0.100	mg/L	0.100	0.0720	100	X341238	SMU	10/23/23 15:32	D1
EPA 200.8	Arsenic	0.133	mg/L	0.100	0.0210	100	X341238	SMU	10/23/23 15:32	D1
EPA 200.8	Selenium	< 0.100	mg/L	0.100	0.0240	100	X341238	SMU	10/23/23 15:32	D1
EPA 200.8	Thallium	< 0.0200	mg/L	0.0200	0.00800	100	X341238	SMU	10/23/23 15:32	D1
EPA 200.8	Uranium	4.11	mg/L	0.0100	0.00520	100	X341238	SMU	10/23/23 15:32	D2

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X341051	MAC	10/16/23 14:22	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X342148	DD	10/18/23 16:59	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X342016	DD	10/17/23 11:19	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X342117	JRR	10/20/23 13:30	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X342247	DD	10/23/23 14:36	
SM 2310 B	Acidity to pH 8.3	6310	mg/L as CaCO3	10.0			X343033	MWD	10/23/23 14:07	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X342068	MWD	10/18/23 11:34	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X342068	MWD	10/18/23 11:34	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X342068	MWD	10/18/23 11:34	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X342068	MWD	10/18/23 11:34	
SM 2540 C	Total Diss. Solids	12700	mg/L	100			X341161	TJL	10/13/23 14:30	D2
SM 2540 D	Total Susp. Solids	45.0	mg/L	5.0			X341162	TJL	10/16/23 17:00	
SM 4500 H B	pH @17.6°C	3.6	pH Units				X342068	MWD	10/18/23 11:34	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: **X3J0204**

Reported: 25-Oct-23 15:08

Client Sample ID: **GVMW-25**

Sampled: 10-Oct-23 12:31

SVL Sample ID: **X3J0204-01 (Ground Water)**

Received: 11-Oct-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	23.6	mg/L	2.00	0.22	10	X341112	RS	10/11/23 15:00	D2
EPA 300.0	Fluoride	42.5	mg/L	1.00	0.170	10	X341112	RS	10/11/23 15:00	D2
EPA 300.0	Nitrate as N	3.91	mg/L	0.500	0.130	10	X341112	RS	10/11/23 15:00	D1
EPA 300.0	Nitrate+Nitrite as N	3.97	mg/L	1.00	0.440	10	X341112	RS	10/11/23 15:00	D1
EPA 300.0	Nitrite as N	< 0.500	mg/L	0.500	0.310	10	X341112	RS	10/11/23 15:00	D1
EPA 300.0	Sulfate as SO4	9870	mg/L	75.0	45.0	250	X341112	RS	10/11/23 15:17	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 197 meq/L

Anion Sum: 209 meq/L

C/A Balance: -2.94 %

Calculated TDS: 11076

TDS/cTDS: 1.15

This data has been reviewed for accuracy and has been authorized for release.

Kathryn Salter
Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Work Order: **X3J0198**

Reported: 25-Oct-23 14:46

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

Sampled: 10-Oct-23 10:22

Received: 11-Oct-23

Sampled By: PB

SVL Sample ID: **X3J0198-03 (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	29.5	mg/L	0.100	0.069		X342014	JRR	10/17/23 11:36	
EPA 200.7	Magnesium	7.03	mg/L	0.500	0.090		X342014	JRR	10/17/23 11:36	
EPA 200.7	Potassium	1.00	mg/L	0.50	0.18		X342014	JRR	10/17/23 11:36	
SM 2340 B	Hardness (as CaCO3)	103	mg/L	2.31	0.543		N/A		10/23/23 14:04	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X342205	JRR	10/23/23 14:04	
EPA 200.7	Barium	0.197	mg/L	0.0020	0.0019		X342205	JRR	10/23/23 14:04	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X342205	JRR	10/23/23 14:04	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X342205	JRR	10/23/23 12:29	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X342205	JRR	10/23/23 14:04	
EPA 200.7	Calcium	30.2	mg/L	0.100	0.069		X342205	JRR	10/23/23 14:04	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X342205	JRR	10/23/23 14:04	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X342205	JRR	10/23/23 14:04	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X342205	JRR	10/23/23 14:04	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X342205	JRR	10/23/23 14:04	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X342205	JRR	10/23/23 14:04	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X342205	JRR	10/23/23 14:04	
EPA 200.7	Magnesium	6.88	mg/L	0.500	0.090		X342205	JRR	10/23/23 14:04	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X342205	JRR	10/23/23 14:04	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X342205	JRR	10/23/23 14:04	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X342205	JRR	10/23/23 14:04	
EPA 200.7	Potassium	0.92	mg/L	0.50	0.18		X342205	JRR	10/23/23 14:04	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X342205	JRR	10/23/23 12:29	
EPA 200.7	Sodium	31.7	mg/L	0.50	0.12		X342205	JRR	10/23/23 14:04	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X342205	JRR	10/23/23 14:04	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X342205	JRR	10/23/23 14:04	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X341238	SMU	10/23/23 15:19	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X341238	SMU	10/23/23 15:19	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X341238	SMU	10/23/23 15:19	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X341238	SMU	10/23/23 15:19	
EPA 200.8	Uranium	0.00357	mg/L	0.000100	0.000052		X341238	SMU	10/23/23 15:19	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X341051	MAC	10/16/23 14:18	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X342148	DD	10/18/23 16:55	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X342016	DD	10/17/23 11:02	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X342117	JRR	10/20/23 13:19	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X342247	DD	10/23/23 14:33	
SM 2310 B	Acidity to pH 8.3	-125	mg/L as CaCO3	10.0			X343033	MWD	10/23/23 14:07	
SM 2320 B	Total Alkalinity	158	mg/L as CaCO3	1.0			X342068	MWD	10/18/23 11:22	
SM 2320 B	Bicarbonate	158	mg/L as CaCO3	1.0			X342068	MWD	10/18/23 11:22	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X342068	MWD	10/18/23 11:22	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X342068	MWD	10/18/23 11:22	
SM 2540 C	Total Diss. Solids	188	mg/L	10			X341161	TJL	10/13/23 14:30	
SM 2540 D	Total Susp. Solids	6.0	mg/L	5.0			X341162	TJL	10/16/23 17:00	
SM 4500 H B	pH @17.3°C	8.0	pH Units				X342068	MWD	10/18/23 11:22	H5

SVL holds the following certifications:

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

Work 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: **X3J0198**

Reported: 25-Oct-23 14:46

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

Sampled: 10-Oct-23 10:22

SVL Sample ID: **X3J0198-03 (Ground Water)**

Received: 11-Oct-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	1.31	mg/L	0.20	0.02		X341112	RS	10/11/23 13:18	
EPA 300.0	Fluoride	1.93	mg/L	0.100	0.017		X341112	RS	10/11/23 13:18	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X341112	RS	10/11/23 13:18	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X341112	RS	10/11/23 13:18	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X341112	RS	10/11/23 13:18	
EPA 300.0	Sulfate as SO4	12.0	mg/L	0.30	0.18		X341112	RS	10/11/23 13:18	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.46 meq/L

Anion Sum: 3.55 meq/L

C/A Balance: -1.31 %

Calculated TDS: 180

TDS/cTDS: 1.05

This data has been reviewed for accuracy and has been authorized for release.

Kathryn Salter
Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Work Order: **X3J0198**

Reported: 25-Oct-23 14:46

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

Sampled: 10-Oct-23 11:08

Received: 11-Oct-23

Sampled By: PB

SVL Sample ID: **X3J0198-04 (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	11.7	mg/L	0.100	0.069		X342014	JRR	10/17/23 11:39	
EPA 200.7	Magnesium	2.52	mg/L	0.500	0.090		X342014	JRR	10/17/23 11:39	
EPA 200.7	Potassium	0.79	mg/L	0.50	0.18		X342014	JRR	10/17/23 11:39	
SM 2340 B	Hardness (as CaCO3)	39.6	mg/L	2.31	0.543		N/A		10/17/23 11:39	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X342205	JRR	10/23/23 14:08	
EPA 200.7	Barium	0.120	mg/L	0.0020	0.0019		X342205	JRR	10/23/23 14:08	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X342205	JRR	10/23/23 14:08	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X342205	JRR	10/23/23 12:33	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X342205	JRR	10/23/23 14:08	
EPA 200.7	Calcium	12.0	mg/L	0.100	0.069		X342205	JRR	10/23/23 14:08	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X342205	JRR	10/23/23 14:08	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X342205	JRR	10/23/23 14:08	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X342205	JRR	10/23/23 14:08	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X342205	JRR	10/23/23 14:08	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X342205	JRR	10/23/23 14:08	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X342205	JRR	10/23/23 14:08	
EPA 200.7	Magnesium	2.55	mg/L	0.500	0.090		X342205	JRR	10/23/23 14:08	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X342205	JRR	10/23/23 14:08	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X342205	JRR	10/23/23 14:08	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X342205	JRR	10/23/23 14:08	
EPA 200.7	Potassium	0.78	mg/L	0.50	0.18		X342205	JRR	10/23/23 14:08	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X342205	JRR	10/23/23 12:33	
EPA 200.7	Sodium	10.3	mg/L	0.50	0.12		X342205	JRR	10/23/23 14:08	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X342205	JRR	10/23/23 14:08	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X342205	JRR	10/23/23 14:08	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X341238	SMU	10/23/23 15:21	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X341238	SMU	10/23/23 15:21	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X341238	SMU	10/23/23 15:21	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X341238	SMU	10/23/23 15:21	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X341238	SMU	10/23/23 15:21	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X341051	MAC	10/16/23 14:20	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X342148	DD	10/18/23 16:57	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X342016	DD	10/17/23 11:05	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X342117	JRR	10/20/23 13:22	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X342247	DD	10/23/23 14:34	
SM 2310 B	Acidity to pH 8.3	-42.4	mg/L as CaCO3	10.0			X343033	MWD	10/23/23 14:07	
SM 2320 B	Total Alkalinity	37.1	mg/L as CaCO3	1.0			X342068	MWD	10/18/23 11:28	
SM 2320 B	Bicarbonate	37.1	mg/L as CaCO3	1.0			X342068	MWD	10/18/23 11:28	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X342068	MWD	10/18/23 11:28	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X342068	MWD	10/18/23 11:28	
SM 2540 C	Total Diss. Solids	105	mg/L	10			X341161	TJL	10/13/23 14:30	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X341162	TJL	10/16/23 17:00	
SM 4500 H B	pH @17.4°C	6.7	pH Units				X342068	MWD	10/18/23 11:28	H5

SVL holds the following certifications:

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

Work Page 8 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: **X3J0198**
Reported: 25-Oct-23 14:46

Client Sample ID: **GVMW-26B**
SVL Sample ID: **X3J0198-04 (Ground Water)**

Sampled: 10-Oct-23 11:08
Received: 11-Oct-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	1.73	mg/L	0.20	0.02		X341112	RS	10/11/23 13:52	
EPA 300.0	Fluoride	0.228	mg/L	0.100	0.017		X341112	RS	10/11/23 13:52	
EPA 300.0	Nitrate as N	0.628	mg/L	0.050	0.013		X341112	RS	10/11/23 13:52	
EPA 300.0	Nitrate+Nitrite as N	0.628	mg/L	0.100	0.044		X341112	RS	10/11/23 13:52	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X341112	RS	10/11/23 13:52	
EPA 300.0	Sulfate as SO4	22.0	mg/L	0.30	0.18		X341112	RS	10/11/23 13:52	

Cation/Anion Balance and TDS Ratios										
Cation Sum: 1.27 meq/L		Anion Sum: 1.31 meq/L		C/A Balance: -1.21 %		Calculated TDS: 74		TDS/cTDS: 1.41		

This data has been reviewed for accuracy and has been authorized for release.



Kathryn Salter
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: **X3J0198**

Reported: 25-Oct-23 14:46

Client Sample ID: **GV-06**

Sampled: 10-Oct-23 08:55

Received: 11-Oct-23

Sampled By: PB

SVL Sample ID: **X3J0198-01 (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		X342009	MAC	10/17/23 10:51	U
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Barium	0.130	mg/L	0.0020	0.0019		X342014	JRR	10/17/23 11:29	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X342014	JRR	10/17/23 11:29	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X342014	JRR	10/17/23 11:29	
EPA 200.7	Calcium	41.6	mg/L	0.100	0.069		X342014	JRR	10/17/23 11:29	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X342014	JRR	10/17/23 11:29	
EPA 200.7	Iron	1.85	mg/L	0.100	0.056		X342014	JRR	10/17/23 11:29	
EPA 200.7	Magnesium	11.0	mg/L	0.500	0.090		X342014	JRR	10/17/23 11:29	
EPA 200.7	Manganese	1.20	mg/L	0.0080	0.0034		X342014	JRR	10/17/23 11:29	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X342014	JRR	10/17/23 11:29	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X342014	JRR	10/17/23 11:29	
EPA 200.7	Phosphorus	0.055	mg/L	0.050	0.013		X342014	JRR	10/17/23 11:29	
EPA 200.7	Potassium	1.13	mg/L	0.50	0.18		X342014	JRR	10/17/23 11:29	
EPA 200.7	Sodium	12.5	mg/L	0.50	0.12		X342014	JRR	10/17/23 11:29	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X342014	JRR	10/17/23 11:29	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X342015	SMU	10/20/23 12:45	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X342015	SMU	10/20/23 12:45	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X342015	SMU	10/20/23 12:45	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X342015	SMU	10/20/23 12:45	
EPA 200.8	Copper	< 0.00040	mg/L	0.00040	0.00036		X342015	SMU	10/20/23 12:45	
EPA 200.8	Lead	0.00047	mg/L	0.00020	0.00014		X342015	SMU	10/20/23 12:45	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X342015	SMU	10/20/23 12:45	
SM 2340 B	Hardness (as CaCO3)	151	mg/L	2.31	0.543		N/A		10/17/23 11:29	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X342205	JRR	10/23/23 13:51	
EPA 200.7	Barium	0.107	mg/L	0.0020	0.0019		X342205	JRR	10/23/23 13:51	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X342205	JRR	10/23/23 13:51	
EPA 200.7	Calcium	42.3	mg/L	0.100	0.069		X342205	JRR	10/23/23 13:51	
EPA 200.7	Iron	0.425	mg/L	0.100	0.056		X342205	JRR	10/23/23 13:51	
EPA 200.7	Magnesium	11.0	mg/L	0.500	0.090		X342205	JRR	10/23/23 13:51	
EPA 200.7	Manganese	0.853	mg/L	0.0080	0.0034		X342205	JRR	10/23/23 13:51	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X342205	JRR	10/23/23 13:51	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X342205	JRR	10/23/23 13:51	
EPA 200.7	Potassium	1.13	mg/L	0.50	0.18		X342205	JRR	10/23/23 13:51	
EPA 200.7	Sodium	12.7	mg/L	0.50	0.12		X342205	JRR	10/23/23 13:51	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X342205	JRR	10/23/23 13:51	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X341238	SMU	10/23/23 15:13	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X341238	SMU	10/23/23 15:13	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X341238	SMU	10/23/23 15:13	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X341238	SMU	10/23/23 15:13	
EPA 200.8	Copper	0.00119	mg/L	0.00040	0.00036		X341238	SMU	10/23/23 15:13	
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X341238	SMU	10/23/23 15:13	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X341238	SMU	10/23/23 15:13	
EPA 200.8	Silver	< 0.00008	mg/L	0.00008	0.000061		X341238	SMU	10/23/23 15:13	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X341238	SMU	10/23/23 15:13	
EPA 200.8	Uranium	0.00145	mg/L	0.000100	0.000052		X341238	SMU	10/23/23 15:13	

SVL holds the following certifications:

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

Work **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: **X3J0198**
Reported: 25-Oct-23 14:46

Client Sample ID: **GV-06**
SVL Sample ID: **X3J0198-01 (Surface Water)**

Sampled: 10-Oct-23 08:55
Received: 11-Oct-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		X341051	MAC	10/16/23 14:14	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X342148	DD	10/18/23 16:51	
Calculation	Chromium(III)	< 0.0110	mg/L	0.0110	0.00390		N/A		10/19/23 19:45	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X342016	DD	10/17/23 10:57	
EPA 350.1	Ammonia as N	0.037	mg/L	0.030	0.013		X342117	JRR	10/20/23 13:01	
EPA 351.2	TKN	< 0.50	mg/L	0.50	0.31		X341130	HJL	10/12/23 12:26	
Hach 8167	Total Chlorine	0.030	mg/L	0.020			X341119	NMS	10/11/23 11:40	H5,R2B
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X342247	DD	10/23/23 14:30	
SM 2310 B	Acidity to pH 8.3	-63.1	mg/L as CaCO3	10.0			X343033	MWD	10/23/23 14:07	
SM 2320 B	Total Alkalinity	99.8	mg/L as CaCO3	1.0			X342068	MWD	10/18/23 11:11	
SM 2320 B	Bicarbonate	99.8	mg/L as CaCO3	1.0			X342068	MWD	10/18/23 11:11	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X342068	MWD	10/18/23 11:11	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X342068	MWD	10/18/23 11:11	
SM 2540 C	Total Diss. Solids	223	mg/L	10			X341161	TJL	10/13/23 14:30	
SM 2540 D	Total Susp. Solids	11.0	mg/L	5.0			X341162	TJL	10/16/23 17:00	
SM 4500 H B	pH @17.0°C	7.7	pH Units				X342068	MWD	10/18/23 11:11	H5
SM 4500 S D	Sulfide	< 0.050	mg/L	0.050	0.020		X342064	NMS	10/17/23 15:01	
SM 4500-O-G	Dissolved Oxygen	5.9	mg/L	0.1			X342103	TJL	10/19/23 15:20	H3,H5

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	< 0.0050	mg/L	0.0050	0.0019		X342226	NMS	10/19/23 19:45	
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Filtered Classical Chemistry Parameters

Calculation	Chromium(III)-Dissolved	< 0.00600	mg/L	0.00600	0.00207		N/A		10/23/23 15:13	
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Anions by Ion Chromatography

EPA 300.0	Chloride	8.20	mg/L	0.20	0.02		X341112	RS	10/11/23 11:53	
EPA 300.0	Fluoride	0.463	mg/L	0.100	0.017		X341112	RS	10/11/23 11:53	
EPA 300.0	Nitrate as N	0.203	mg/L	0.050	0.013		X341112	RS	10/11/23 11:53	
EPA 300.0	Nitrate+Nitrite as N	0.207	mg/L	0.100	0.044		X341112	RS	10/11/23 11:53	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X341112	RS	10/11/23 11:53	
EPA 300.0	Sulfate as SO4	69.3	mg/L	3.00	1.80	10	X341112	RS	10/11/23 12:10	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.61 meq/L	Anion Sum: 3.71 meq/L	C/A Balance: -1.33 %	Calculated TDS: 205	TDS/cTDS: 1.09
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This data has been reviewed for accuracy and has been authorized for release.

Kathryn Salter
Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Work Order: **X3J0204**

Reported: 25-Oct-23 15:08

Client Sample ID: **Ecosa Seep-1**

Sampled: 10-Oct-23 08:00

Received: 11-Oct-23

Sampled By: PB

SVL Sample ID: **X3J0204-03 (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	405	mg/L	0.500	0.345	5	X342014	JRR	10/17/23 12:30	D1
EPA 200.7	Magnesium	1010	mg/L	2.50	0.450	5	X342014	JRR	10/17/23 12:30	D2
EPA 200.7	Potassium	< 2.50	mg/L	2.50	0.90	5	X342014	JRR	10/17/23 12:30	D1
SM 2340 B	Hardness (as CaCO3)	4830	mg/L	11.5	2.71		N/A		10/17/23 12:30	
Metals (Dissolved)										
EPA 200.7	Aluminum	3140	mg/L	0.400	0.270	5	X342205	JRR	10/23/23 14:11	D2
EPA 200.7	Barium	< 0.0100	mg/L	0.0100	0.0095	5	X342205	JRR	10/23/23 14:11	D1
EPA 200.7	Beryllium	0.474	mg/L	0.0100	0.00400	5	X342205	JRR	10/23/23 14:11	D1
EPA 200.7	Boron	< 0.200	mg/L	0.200	0.0390	5	X342205	JRR	10/23/23 12:36	D1
EPA 200.7	Cadmium	10.3	mg/L	0.0100	0.0080	5	X342205	JRR	10/23/23 14:11	D1
EPA 200.7	Calcium	387	mg/L	0.500	0.345	5	X342205	JRR	10/23/23 14:11	D1
EPA 200.7	Chromium	0.820	mg/L	0.0300	0.0100	5	X342205	JRR	10/23/23 14:11	D1
EPA 200.7	Cobalt	9.89	mg/L	0.0300	0.0230	5	X342205	JRR	10/23/23 14:11	D1
EPA 200.7	Copper	19.3	mg/L	0.0500	0.0135	5	X342205	JRR	10/23/23 14:11	D1
EPA 200.7	Iron	1140	mg/L	0.500	0.280	5	X342205	JRR	10/23/23 14:11	D2
EPA 200.7	Lead	0.0719	mg/L	0.0375	0.0245	5	X342205	JRR	10/23/23 14:11	D1
EPA 200.7	Lithium	0.649	mg/L	0.200	0.125	5	X342205	JRR	10/23/23 14:11	D1
EPA 200.7	Magnesium	927	mg/L	2.50	0.450	5	X342205	JRR	10/23/23 14:11	D2
EPA 200.7	Manganese	1100	mg/L	0.400	0.170	50	X342205	JRR	10/23/23 15:16	D2
EPA 200.7	Molybdenum	< 0.0400	mg/L	0.0400	0.0170	5	X342205	JRR	10/23/23 14:11	D1
EPA 200.7	Nickel	8.07	mg/L	0.0500	0.0240	5	X342205	JRR	10/23/23 14:11	D1
EPA 200.7	Potassium	< 2.50	mg/L	2.50	0.90	5	X342205	JRR	10/23/23 14:11	D1
EPA 200.7	Silver	< 0.0250	mg/L	0.0250	0.0095	5	X342205	JRR	10/23/23 12:36	D1
EPA 200.7	Sodium	53.7	mg/L	2.50	0.60	5	X342205	JRR	10/23/23 14:11	D1
EPA 200.7	Vanadium	< 0.0250	mg/L	0.0250	0.0095	5	X342205	JRR	10/23/23 14:11	D1
EPA 200.7	Zinc	166	mg/L	0.0500	0.0270	5	X342205	JRR	10/23/23 14:11	D2
EPA 200.8	Antimony	< 0.100	mg/L	0.100	0.0720	100	X341238	SMU	10/23/23 16:04	D1
EPA 200.8	Arsenic	0.528	mg/L	0.100	0.0210	100	X341238	SMU	10/23/23 16:04	D1
EPA 200.8	Selenium	< 0.100	mg/L	0.100	0.0240	100	X341238	SMU	10/23/23 16:04	D1
EPA 200.8	Thallium	< 0.0200	mg/L	0.0200	0.00800	100	X341238	SMU	10/23/23 16:04	D1
EPA 200.8	Uranium	13.3	mg/L	0.0100	0.00520	100	X341238	SMU	10/23/23 16:04	D2
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X341051	MAC	10/16/23 14:26	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0500	mg/L	0.0500	0.0480	10	X342148	DD	10/18/23 17:31	D1,Q12,Q20, Q26,V9
EPA 335.4	Cyanide (total)	0.0135	mg/L	0.0050	0.0038		X342016	DD	10/17/23 11:23	E12,Q12,Q20, Q26
EPA 350.1	Ammonia as N	0.204	mg/L	0.030	0.013		X342117	JRR	10/20/23 13:36	
OIA 1677	Cyanide (WAD)	< 0.0500	mg/L	0.0500	0.0100	10	X342247	DD	10/23/23 14:39	D1,E12,Q12
SM 2310 B	Acidity to pH 8.3	23100	mg/L as CaCO3	10.0			X343033	MWD	10/23/23 14:07	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X342068	MWD	10/18/23 11:56	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X342068	MWD	10/18/23 11:56	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X342068	MWD	10/18/23 11:56	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X342068	MWD	10/18/23 11:56	
SM 2540 C	Total Diss. Solids	44900	mg/L	100			X341161	TJL	10/13/23 14:30	D2,E11
SM 2540 D	Total Susp. Solids	150	mg/L	5.0			X341162	TJL	10/16/23 17:00	
SM 4500 H B	pH @18.6°C	2.5	pH Units				X342068	MWD	10/18/23 11:56	H5

SVL holds the following certifications:

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

Work



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: **X3J0204**

Reported: 25-Oct-23 15:08

Client Sample ID: **Ecosa Seep-1**SVL Sample ID: **X3J0204-03 (Ground Water)**

Sampled: 10-Oct-23 08:00

Received: 11-Oct-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	X341112	RS	10/12/23 02:26	D1
EPA 300.0	Fluoride	168	mg/L	10.0	1.70	100	X341112	RS	10/12/23 02:26	D2
EPA 300.0	Nitrate as N	14.0	mg/L	5.00	1.30	100	X341112	RS	10/12/23 02:26	D2
EPA 300.0	Nitrate+Nitrite as N	14.0	mg/L	10.0	4.40	100	X341112	RS	10/12/23 02:26	D2
EPA 300.0	Nitrite as N	< 5.00	mg/L	5.00	3.10	100	X341112	RS	10/12/23 02:26	D1
EPA 300.0	Sulfate as SO4	30300	mg/L	750	450	2500	X341112	RS	10/11/23 16:47	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 560 meq/L

Anion Sum: 641 meq/L

C/A Balance: -6.73 %

Calculated TDS: 31948

TDS/cTDS: 1.41

This data has been reviewed for accuracy and has been authorized for release.

Kathryn Salter
Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Work Order: **X3J0204**

Reported: 25-Oct-23 15:08

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

Sampled: 10-Oct-23 08:15

Received: 11-Oct-23

Sampled By: PB

SVL Sample ID: **X3J0204-04 (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	512	mg/L	5.00	3.45	50	X342014	JRR	10/17/23 12:33	D2
EPA 200.7	Magnesium	1690	mg/L	25.0	4.50	50	X342014	JRR	10/17/23 12:33	D2
EPA 200.7	Potassium	< 25.0	mg/L	25.0	9.00	50	X342014	JRR	10/17/23 12:33	D1
SM 2340 B	Hardness (as CaCO3)	8220	mg/L	115	27.1		N/A		10/23/23 14:22	
Metals (Dissolved)										
EPA 200.7	Aluminum	11200	mg/L	1.60	1.08	20	X342205	JRR	10/23/23 14:22	D2
EPA 200.7	Barium	< 0.0400	mg/L	0.0400	0.0380	20	X342205	JRR	10/23/23 14:22	D1
EPA 200.7	Beryllium	0.930	mg/L	0.0400	0.0160	20	X342205	JRR	10/23/23 14:22	D1
EPA 200.7	Boron	< 0.800	mg/L	0.800	0.156	20	X342205	JRR	10/23/23 12:47	D1
EPA 200.7	Cadmium	52.9	mg/L	0.0400	0.0320	20	X342205	JRR	10/23/23 14:22	D2
EPA 200.7	Calcium	453	mg/L	2.00	1.38	20	X342205	JRR	10/23/23 14:22	D1
EPA 200.7	Chromium	3.29	mg/L	0.120	0.0400	20	X342205	JRR	10/23/23 14:22	D1
EPA 200.7	Cobalt	30.9	mg/L	0.120	0.0920	20	X342205	JRR	10/23/23 14:22	D1
EPA 200.7	Copper	121	mg/L	0.200	0.0540	20	X342205	JRR	10/23/23 14:22	D2
EPA 200.7	Iron	9940	mg/L	2.00	1.12	20	X342205	JRR	10/23/23 14:22	D2
EPA 200.7	Lead	0.247	mg/L	0.150	0.0980	20	X342205	JRR	10/23/23 14:22	D1
EPA 200.7	Lithium	3.37	mg/L	0.800	0.500	20	X342205	JRR	10/23/23 14:22	D1
EPA 200.7	Magnesium	1490	mg/L	10.0	1.80	20	X342205	JRR	10/23/23 14:22	D2
EPA 200.7	Manganese	5280	mg/L	1.60	0.680	200	X342205	JRR	10/23/23 15:19	D2
EPA 200.7	Molybdenum	< 0.160	mg/L	0.160	0.0680	20	X342205	JRR	10/23/23 14:22	D1
EPA 200.7	Nickel	19.0	mg/L	0.200	0.0960	20	X342205	JRR	10/23/23 14:22	D1
EPA 200.7	Potassium	< 10.0	mg/L	10.0	3.60	20	X342205	JRR	10/23/23 14:22	D1
EPA 200.7	Silver	< 0.100	mg/L	0.100	0.0380	20	X342205	JRR	10/23/23 12:47	D1
EPA 200.7	Sodium	25.4	mg/L	10.0	2.40	20	X342205	JRR	10/23/23 14:22	D1
EPA 200.7	Vanadium	0.426	mg/L	0.100	0.0380	20	X342205	JRR	10/23/23 14:22	D1
EPA 200.7	Zinc	2320	mg/L	2.00	1.08	200	X342205	JRR	10/23/23 15:19	D2
EPA 200.8	Antimony	< 0.100	mg/L	0.100	0.0720	100	X341238	SMU	10/23/23 16:07	D1
EPA 200.8	Arsenic	16.0	mg/L	0.100	0.0210	100	X341238	SMU	10/23/23 16:07	D2
EPA 200.8	Selenium	0.253	mg/L	0.100	0.0240	100	X341238	SMU	10/23/23 16:07	D2
EPA 200.8	Thallium	< 0.0200	mg/L	0.0200	0.00800	100	X341238	SMU	10/23/23 16:07	D1
EPA 200.8	Uranium	90.4	mg/L	0.0100	0.00520	100	X341238	SMU	10/23/23 16:07	D2
Metals (Filtered)										
EPA 245.1	Mercury	0.000213	mg/L	0.000200	0.000093		X341051	MAC	10/16/23 14:29	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0500	mg/L	0.0500	0.0480	10	X342148	DD	10/18/23 17:33	D1,Q12,Q20, Q26,V9
EPA 335.4	Cyanide (total)	0.0189	mg/L	0.0050	0.0038		X342016	DD	10/17/23 11:26	E12,Q12,Q20, Q26
EPA 350.1	Ammonia as N	0.242	mg/L	0.030	0.013		X342117	JRR	10/20/23 13:38	
OIA 1677	Cyanide (WAD)	< 0.0500	mg/L	0.0500	0.0100	10	X342247	DD	10/23/23 14:40	D1,E12,Q12
SM 2310 B	Acidity to pH 8.3	91900	mg/L as CaCO3	10.0			X343033	MWD	10/23/23 14:07	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X342068	MWD	10/18/23 12:01	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X342068	MWD	10/18/23 12:01	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X342068	MWD	10/18/23 12:01	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X342068	MWD	10/18/23 12:01	
SM 2540 C	Total Diss. Solids	153000	mg/L	100			X341161	TJL	10/13/23 14:30	D2,E11
SM 2540 D	Total Susp. Solids	618	mg/L	5.0			X341162	TJL	10/16/23 17:00	
SM 4500 H B	pH @18.6°C	2.2	pH Units				X342068	MWD	10/18/23 12:01	H5

SVL holds the following certifications:

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

Work



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: **X3J0204**

Reported: 25-Oct-23 15:08

Client Sample ID: **Ecosa Seep-2**SVL Sample ID: **X3J0204-04 (Ground Water)**

Sampled: 10-Oct-23 08:15

Received: 11-Oct-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	< 50.0	mg/L	50.0	5.50	250	X341112	RS	10/11/23 17:03	D1
EPA 300.0	Fluoride	718	mg/L	25.0	4.25	250	X341112	RS	10/11/23 17:03	D2
EPA 300.0	Nitrate as N	< 12.5	mg/L	12.5	3.25	250	X341112	RS	10/11/23 17:03	D2
EPA 300.0	Nitrate+Nitrite as N	< 25.0	mg/L	25.0	11.0	250	X341112	RS	10/11/23 17:03	D2
EPA 300.0	Nitrite as N	< 12.5	mg/L	12.5	7.75	250	X341112	RS	10/11/23 17:03	D1
EPA 300.0	Sulfate as SO4	110000	mg/L	1500	900	5000	X341112	RS	10/11/23 17:20	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 2,016 meq/L

Anion Sum: 2,329 meq/L

C/A Balance: -7.21 %

Calculated TDS: 112816

TDS/cTDS: 1.36

This data has been reviewed for accuracy and has been authorized for release.

Kathryn Salter
Project Manager

Surface Water Calculations

GV-06		
Sample Date:		10/10/2023
Data for Calculations:		
pH	6.14	std units
Hardness	151	mg/L
Temperature	3.1	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	6.897	35.924
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
6.14
3.1
Inorganic
0.037
0
8.2
0.03
<0.005
0.463
0.203
<0.05
<0.05
69.3
0.055
Metals
<0.001
<0.001
<0.0001
<0.0001
<0.006
<0.011
<0.005
0.00119
0.425
1.85
<0.0002
0.00047
0.853
<0.000093
<0.008
<0.01
<0.01
<0.001
<0.00008
0.00145
<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.

** Sample was analyzed past the regulatory holding time. CC&V is looking into other testing methods for chlorine that meet regulatory standards.

Field Sheets

Show Calculations:

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location: GV-06Date: 10/10/23Technician: P. BarciaQuarter: 4

Time	pH (S.U.)	Cond. (uS/cm)	Temp. °C	Notes
8:55	6.14	344.2	3.1	

Sample
Method:Grav

Oil/Gas visible

[Y/N] ☒ N

Turbid

[Y/N] ☒ N slight debris

Clear

[Y/N] ☒ N

Weather:

Clear, sunny

Signature:



Comments:

Pic ✓

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location: Seep-1Date: 10/10/23Technician: P. BarelaQuarter: 4

Time	pH (SU)	Cond. (uS/cm)	Temp. (C)	Notes
8:00	2.37	15.87	0.5	

Sample Method: GrabOil/Gas visible [Y/N] (N)Turbid [Y/N] (N)Clear [Y/N] (N)Weather: Clear, sunn XSignature: [Signature]

Comments:

--

PIC ✓

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location: SEEP-2Date: 10/10/23Technician: A. BaruaQuarter: 4

Time	pH (SU)	Cond. (uS/cm)	Temp. (°C)	Notes
8:15	2.09	31.70	2.4	

Sample Method:

Grab

Oil/Gas visible

[Y/N]

Turbid

[Y/N]

Clear

[Y/N]

Weather:

clear, sunny

Signature:

[Signature]

Comments:

PIC ✓

QA/QC

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Work Order: **X3J0204**

Reported: 25-Oct-23 15:08

Client Sample ID: **GVMW-125**

Sampled: 10-Oct-23 12:31

Received: 11-Oct-23

Sampled By: PB

SVL Sample ID: **X3J0204-02 (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	590	mg/L	0.500	0.345	5	X342014	JRR	10/17/23 13:30	D2
EPA 200.7	Magnesium	430	mg/L	0.500	0.090		X342014	JRR	10/17/23 12:26	
EPA 200.7	Potassium	9.25	mg/L	0.50	0.18		X342014	JRR	10/17/23 12:26	
SM 2340 B	Hardness (as CaCO3)	3370	mg/L	3.31	1.23		N/A		10/17/23 12:26	
Metals (Dissolved)										
EPA 200.7	Aluminum	1060	mg/L	0.800	0.540	10	X342204	JRR	10/24/23 11:58	D2
EPA 200.7	Barium	0.0133	mg/L	0.0020	0.0019		X342204	JRR	10/24/23 10:17	
EPA 200.7	Beryllium	0.620	mg/L	0.00200	0.00080		X342204	JRR	10/25/23 09:31	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X342204	JRR	10/24/23 10:17	
EPA 200.7	Cadmium	1.78	mg/L	0.0020	0.0016		X342204	JRR	10/24/23 10:17	
EPA 200.7	Calcium	618	mg/L	0.100	0.069		X342204	JRR	10/24/23 10:17	
EPA 200.7	Chromium	0.173	mg/L	0.0060	0.0020		X342204	JRR	10/24/23 10:17	
EPA 200.7	Cobalt	2.19	mg/L	0.0060	0.0046		X342204	JRR	10/24/23 10:17	
EPA 200.7	Copper	4.20	mg/L	0.0100	0.0027		X342204	JRR	10/24/23 10:17	
EPA 200.7	Iron	8.14	mg/L	0.100	0.056		X342204	JRR	10/24/23 10:17	
EPA 200.7	Lead	0.0136	mg/L	0.0075	0.0049		X342204	JRR	10/24/23 10:17	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X342204	JRR	10/24/23 10:17	
EPA 200.7	Magnesium	461	mg/L	0.500	0.090		X342204	JRR	10/24/23 10:17	
EPA 200.7	Manganese	253	mg/L	0.0800	0.0340	10	X342204	JRR	10/24/23 11:58	D2
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X342204	JRR	10/24/23 10:17	
EPA 200.7	Nickel	2.74	mg/L	0.0100	0.0048		X342204	JRR	10/24/23 10:17	
EPA 200.7	Potassium	7.52	mg/L	0.50	0.18		X342204	JRR	10/24/23 10:17	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X342204	JRR	10/24/23 13:13	
EPA 200.7	Sodium	46.0	mg/L	0.50	0.12		X342204	JRR	10/24/23 10:17	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X342204	JRR	10/24/23 10:17	
EPA 200.7	Zinc	78.9	mg/L	0.100	0.0540	10	X342204	JRR	10/24/23 11:58	D2
EPA 200.8	Antimony	< 0.100	mg/L	0.100	0.0720	100	X341238	SMU	10/23/23 16:01	D1
EPA 200.8	Arsenic	0.132	mg/L	0.100	0.0210	100	X341238	SMU	10/23/23 16:01	D1
EPA 200.8	Selenium	< 0.100	mg/L	0.100	0.0240	100	X341238	SMU	10/23/23 16:01	D1
EPA 200.8	Thallium	< 0.0200	mg/L	0.0200	0.00800	100	X341238	SMU	10/23/23 16:01	D1
EPA 200.8	Uranium	4.05	mg/L	0.0100	0.00520	100	X341238	SMU	10/23/23 16:01	D2
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X341051	MAC	10/16/23 14:24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X342148	DD	10/18/23 17:01	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X342016	DD	10/17/23 11:21	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X342117	JRR	10/20/23 13:33	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X342247	DD	10/23/23 14:37	
SM 2310 B	Acidity to pH 8.3	6310	mg/L as CaCO3	10.0			X343033	MWD	10/23/23 14:07	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X342068	MWD	10/18/23 11:40	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X342068	MWD	10/18/23 11:40	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X342068	MWD	10/18/23 11:40	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X342068	MWD	10/18/23 11:40	
SM 2540 C	Total Diss. Solids	14400	mg/L	100			X341161	TJL	10/13/23 14:30	D2
SM 2540 D	Total Susp. Solids	48.0	mg/L	5.0			X341162	TJL	10/16/23 17:00	
SM 4500 H B	pH @18.1°C	3.6	pH Units				X342068	MWD	10/18/23 11:40	H5

SVL holds the following certifications:

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

Work



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: **X3J0204**
Reported: 25-Oct-23 15:08

Client Sample ID: **GVMW-125**
SVL Sample ID: **X3J0204-02 (Ground Water)**

Sampled: 10-Oct-23 12:31
Received: 11-Oct-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	23.3	mg/L	2.00	0.22	10	X341112	RS	10/11/23 15:34	D2
EPA 300.0	Fluoride	44.0	mg/L	1.00	0.170	10	X341112	RS	10/11/23 15:34	D2
EPA 300.0	Nitrate as N	3.93	mg/L	0.500	0.130	10	X341112	RS	10/11/23 15:34	D1
EPA 300.0	Nitrate+Nitrite as N	3.93	mg/L	1.00	0.440	10	X341112	RS	10/11/23 15:34	D1
EPA 300.0	Nitrite as N	< 0.500	mg/L	0.500	0.310	10	X341112	RS	10/11/23 15:34	D1
EPA 300.0	Sulfate as SO4	10700	mg/L	150	90.0	500	X341112	RS	10/12/23 02:09	D2

Cation/Anion Balance and TDS Ratios										
Cation Sum: 197 meq/L		Anion Sum: 226 meq/L		C/A Balance: -6.87 %		Calculated TDS: 11889		TDS/cTDS: 1.21		

This data has been reviewed for accuracy and has been authorized for release.



Kathryn Salter
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: **X3J0198**

Reported: 25-Oct-23 14:46

Client Sample ID: **RB-1010**

Sampled: 10-Oct-23 11:23

Received: 11-Oct-23

Sampled By: PB

SVL Sample ID: **X3J0198-02 (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		X342014	JRR	10/17/23 11:32	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X342014	JRR	10/17/23 11:32	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X342014	JRR	10/17/23 11:32	
SM 2340 B	Hardness (as CaCO ₃)	< 2.31	mg/L	2.31	0.543		N/A		10/17/23 11:32	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X342205	JRR	10/23/23 14:01	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X342205	JRR	10/23/23 14:01	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X342205	JRR	10/23/23 14:01	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X342205	JRR	10/23/23 12:26	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X342205	JRR	10/23/23 14:01	
EPA 200.7	Calcium	< 0.100	mg/L	0.100	0.069		X342205	JRR	10/23/23 14:01	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X342205	JRR	10/23/23 14:01	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X342205	JRR	10/23/23 14:01	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X342205	JRR	10/23/23 14:01	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X342205	JRR	10/23/23 14:01	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X342205	JRR	10/23/23 14:01	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X342205	JRR	10/23/23 14:01	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X342205	JRR	10/23/23 14:01	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X342205	JRR	10/23/23 14:01	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X342205	JRR	10/23/23 14:01	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X342205	JRR	10/23/23 14:01	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X342205	JRR	10/23/23 14:01	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X342205	JRR	10/23/23 12:26	
EPA 200.7	Sodium	< 0.50	mg/L	0.50	0.12		X342205	JRR	10/23/23 14:01	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X342205	JRR	10/23/23 14:01	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X342205	JRR	10/23/23 14:01	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X341238	SMU	10/23/23 15:16	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X341238	SMU	10/23/23 15:16	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X341238	SMU	10/23/23 15:16	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X341238	SMU	10/23/23 15:16	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X341238	SMU	10/23/23 15:16	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X341051	MAC	10/16/23 14:16	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X342148	DD	10/18/23 16:53	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X342016	DD	10/17/23 10:59	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X342117	JRR	10/20/23 13:05	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X342247	DD	10/23/23 14:31	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO ₃	10.0			X343033	MWD	10/23/23 14:07	
SM 2320 B	Total Alkalinity	1.3	mg/L as CaCO ₃	1.0			X342068	MWD	10/18/23 11:17	
SM 2320 B	Bicarbonate	1.3	mg/L as CaCO ₃	1.0			X342068	MWD	10/18/23 11:17	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X342068	MWD	10/18/23 11:17	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO ₃	1.0			X342068	MWD	10/18/23 11:17	
SM 2540 C	Total Diss. Solids	< 10	mg/L	10			X341161	TJL	10/13/23 14:30	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X341162	TJL	10/16/23 17:00	
SM 4500 H B	pH @17.2°C	6.1	pH Units				X342068	MWD	10/18/23 11:17	H5

SVL holds the following certifications:

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

Work Page 4 of 18



One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
(208) 784-1258
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Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Work Order: **X3J0198**
Reported: 25-Oct-23 14:46

Client Sample ID: **RB-1010**
SVL Sample ID: **X3J0198-02 (Ground Water)**

Sampled: 10-Oct-23 11:23
Received: 11-Oct-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		X341112	RS	10/11/23 12:27	
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.017		X341112	RS	10/11/23 12:27	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X341112	RS	10/11/23 12:27	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X341112	RS	10/11/23 12:27	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X341112	RS	10/11/23 12:27	
EPA 300.0	Sulfate as SO4	0.46	mg/L	0.30	0.18		X341112	RS	10/11/23 12:27	

Cation/Anion Balance and TDS Ratios										
Cation Sum: 0.03 meq/L		Anion Sum: 0.04 meq/L		C/A Balance: -8.94 %		Calculated TDS: 1		TDS/cTDS: 0.00		

This data has been reviewed for accuracy and has been authorized for release.



Kathryn Salter
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