



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

September 27, 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 August 2023 Report Submission, September 27, 2023

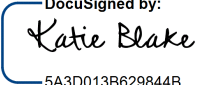
Dear Mr. Russell,

Please see the attached Grassy Valley data (included within Attachment A) for monitoring well GVMW-25, GVMW-26A, GVMW-26B, surface water monitoring location GV-06, and Seep 1 & Seep 2, for the month of August, 2023.

At groundwater monitoring location GVMW-25, increased concentrations of several parameters have been observed during the August 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
N. Townley

File: "C:\Users\19012214\Newmont USA Limited\CC&V - S&ER Environmental - Environmental Compliance\Water\DRMS\Grassy Monthly\8 - August 2023\Final"

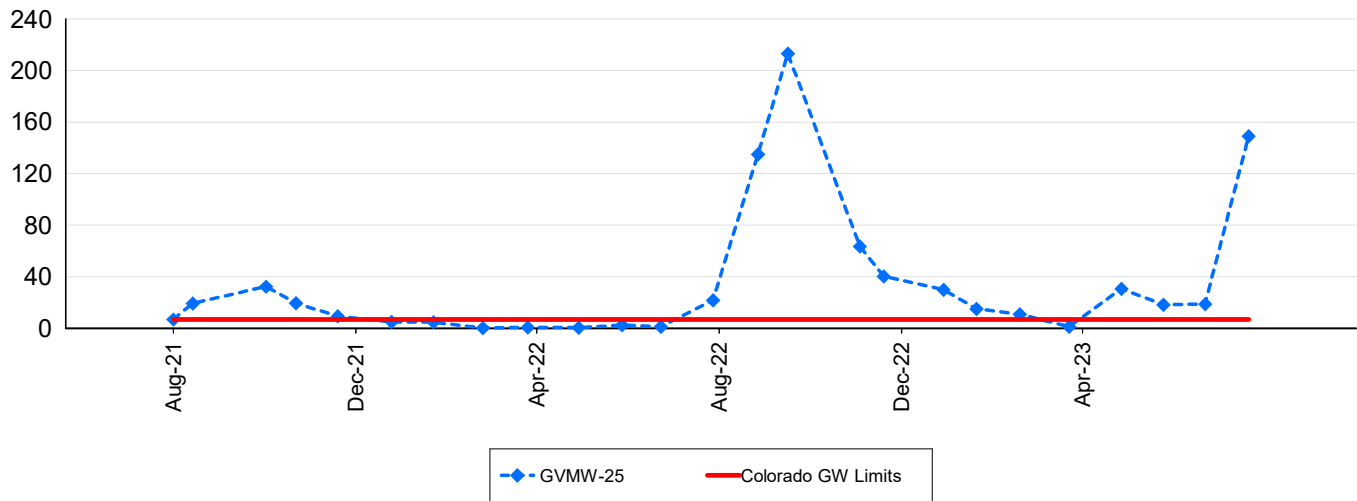


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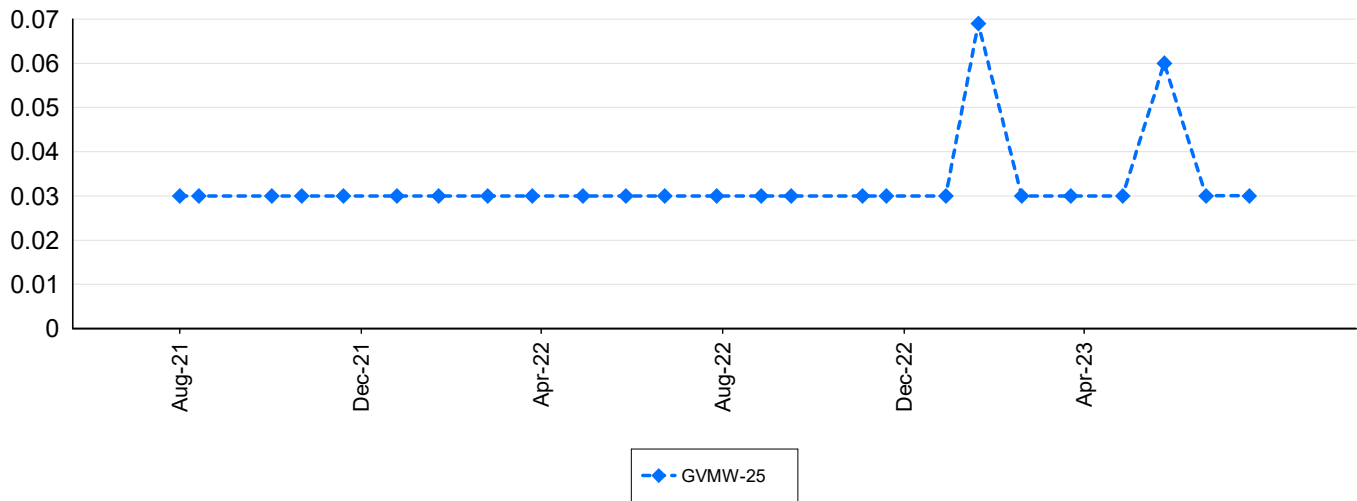
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F 719.689.3254
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Attachment A

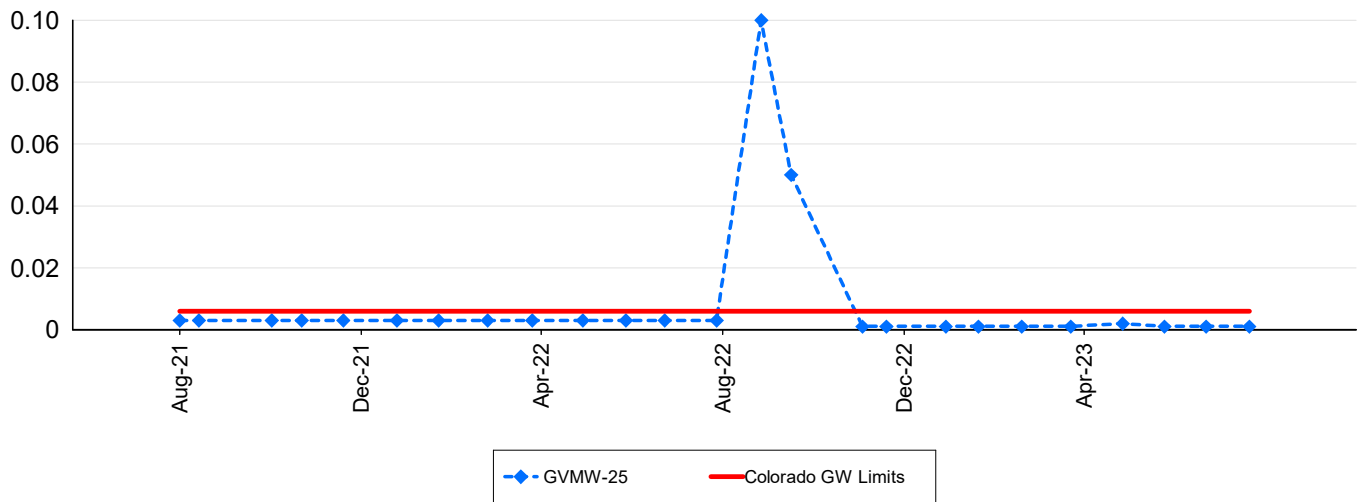
: Aluminium - Dissolved (mg/L)



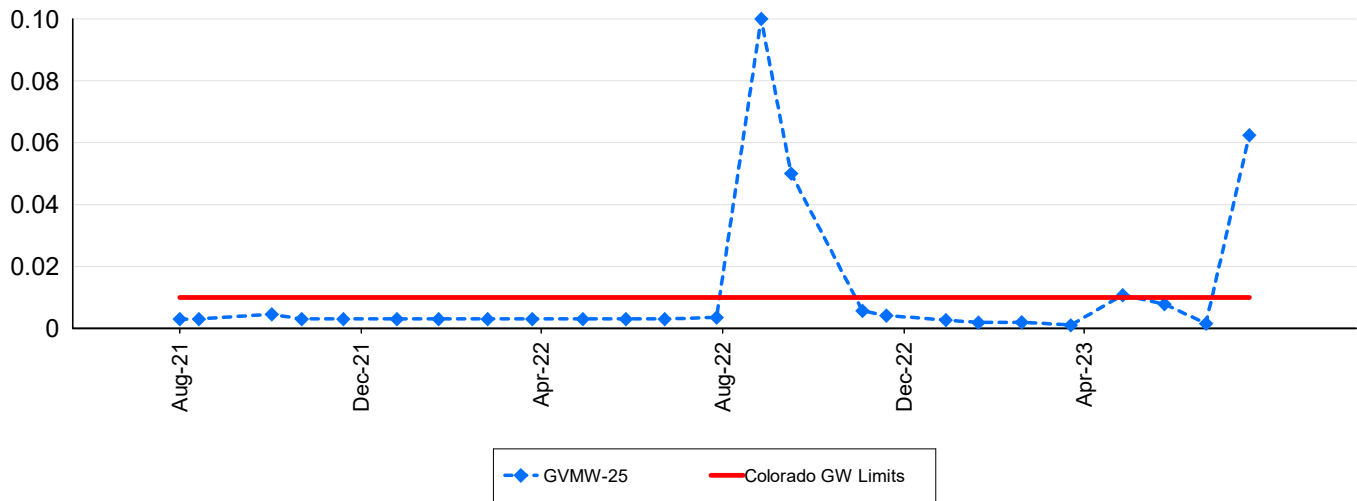
: Ammonia (mg/L)



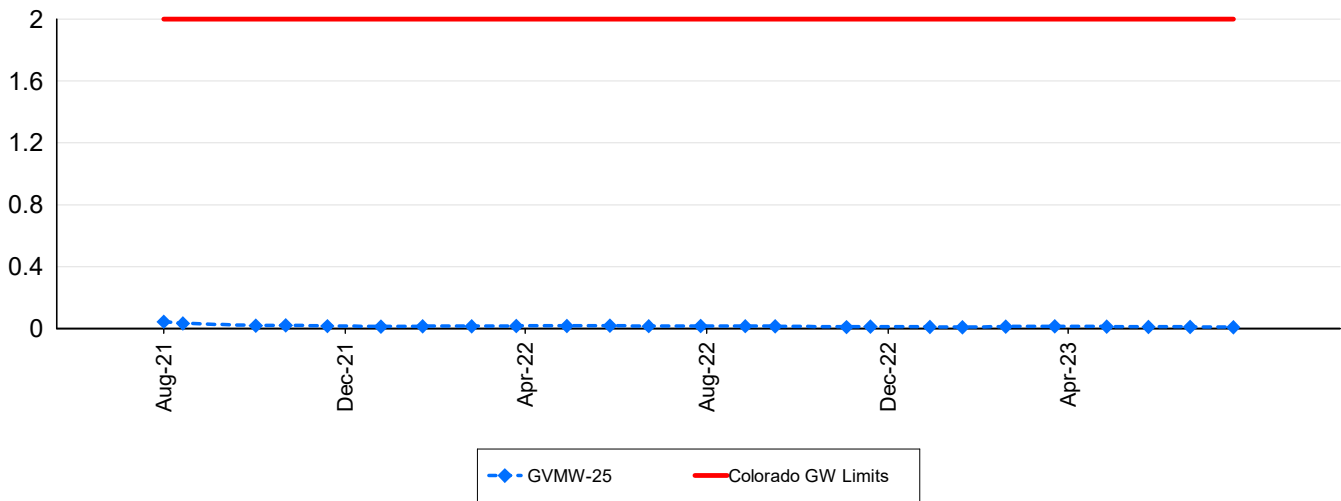
: Antimony - Dissolved (mg/L)



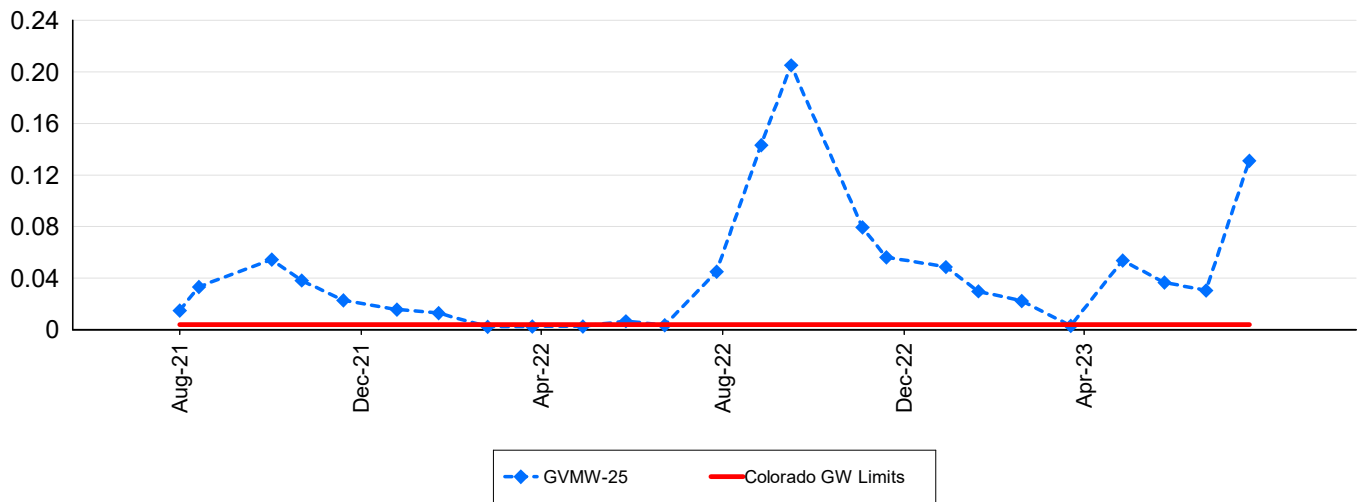
: Arsenic - Dissolved (mg/L)



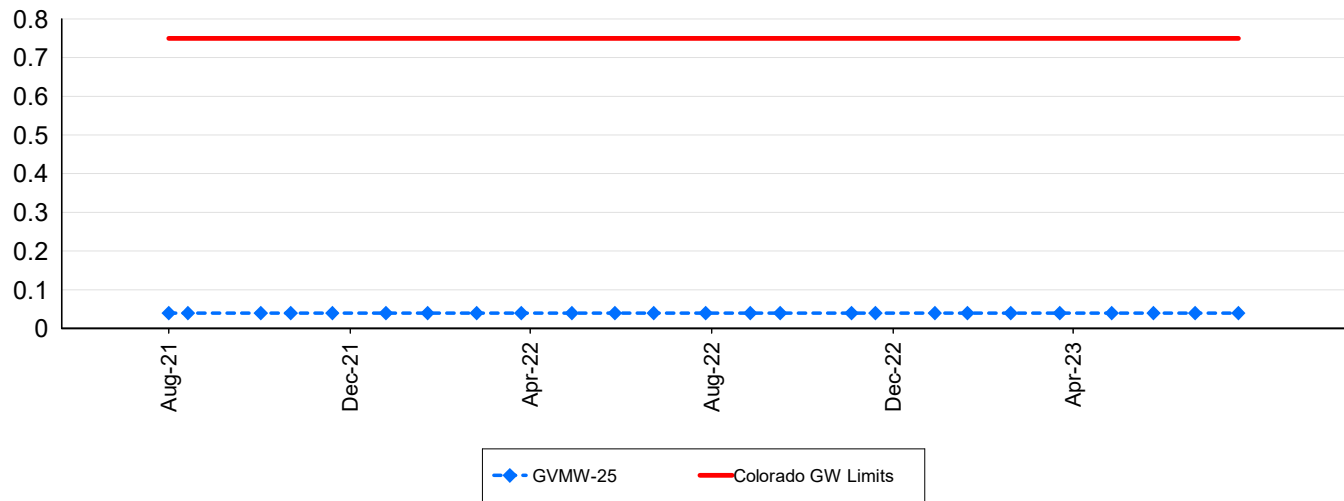
: Barium - Dissolved (mg/L)



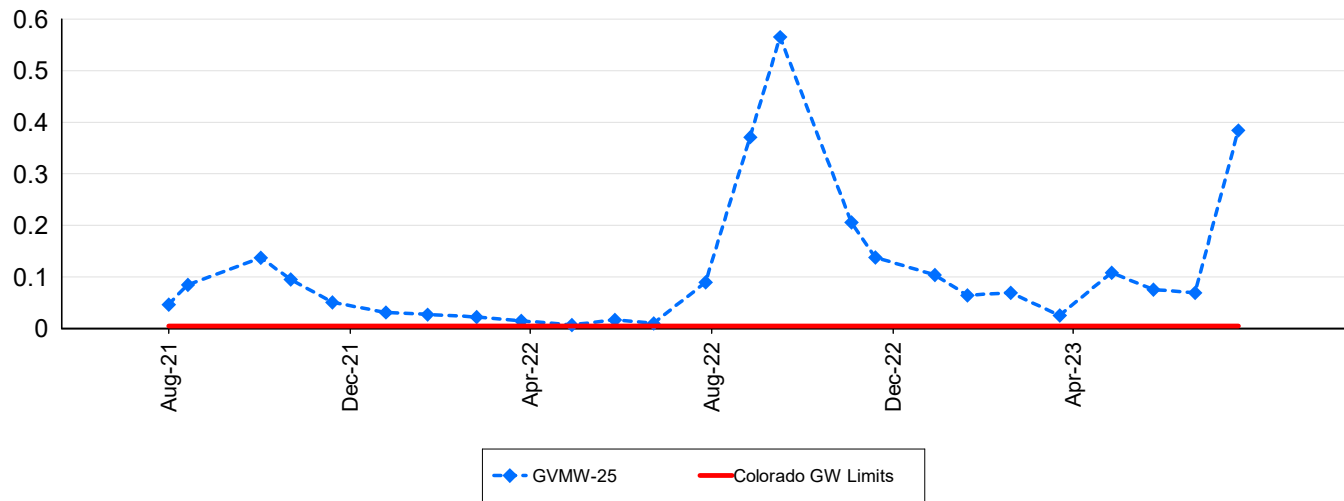
: Beryllium - Dissolved (mg/L)



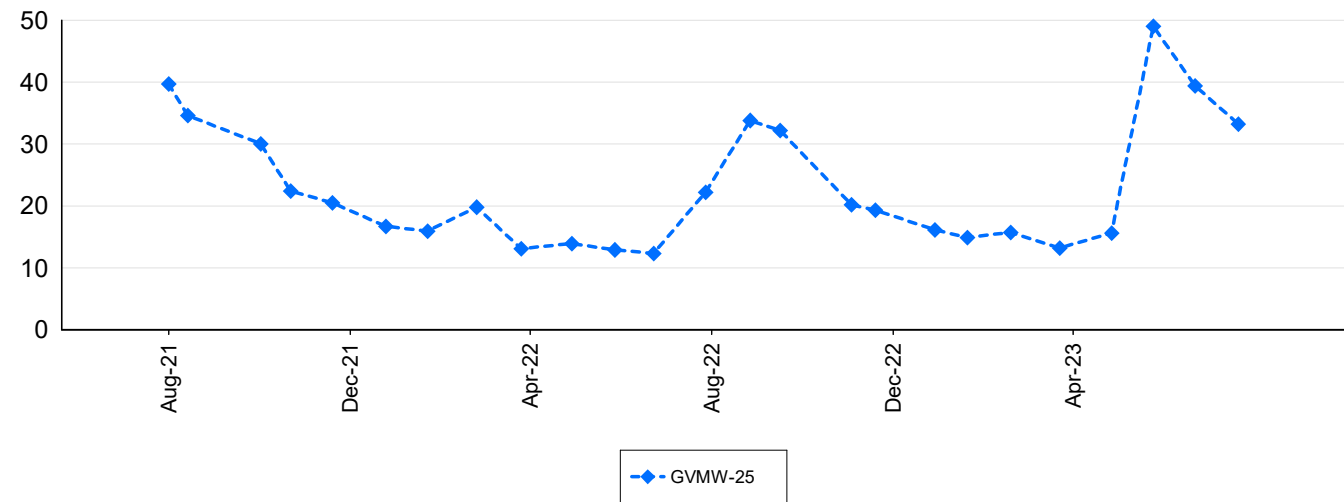
: Boron - Dissolved (mg/L)



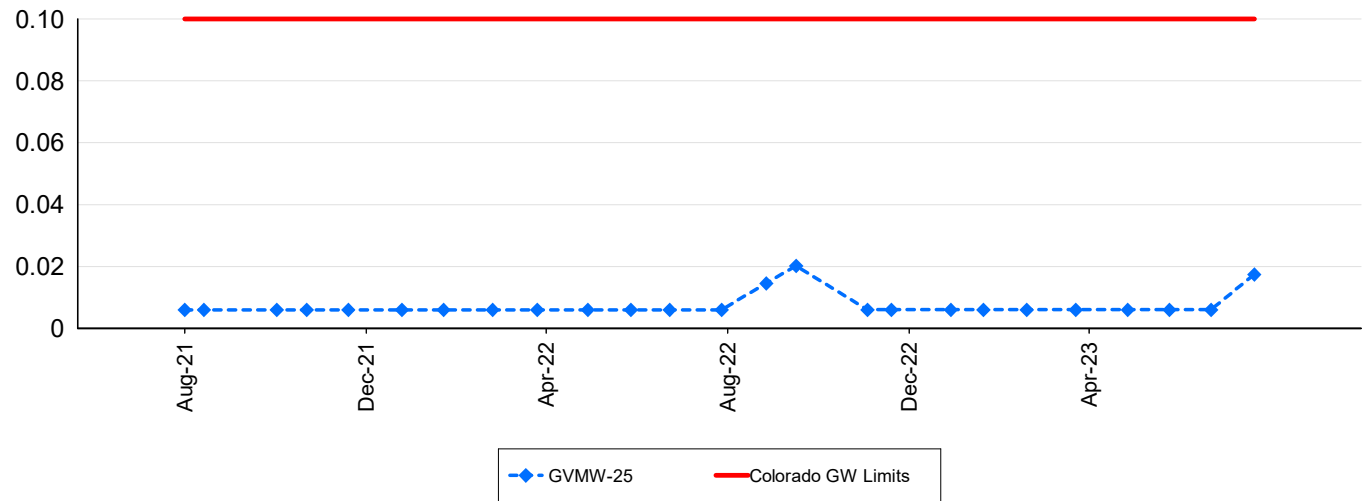
: Cadmium - Dissolved (mg/L)



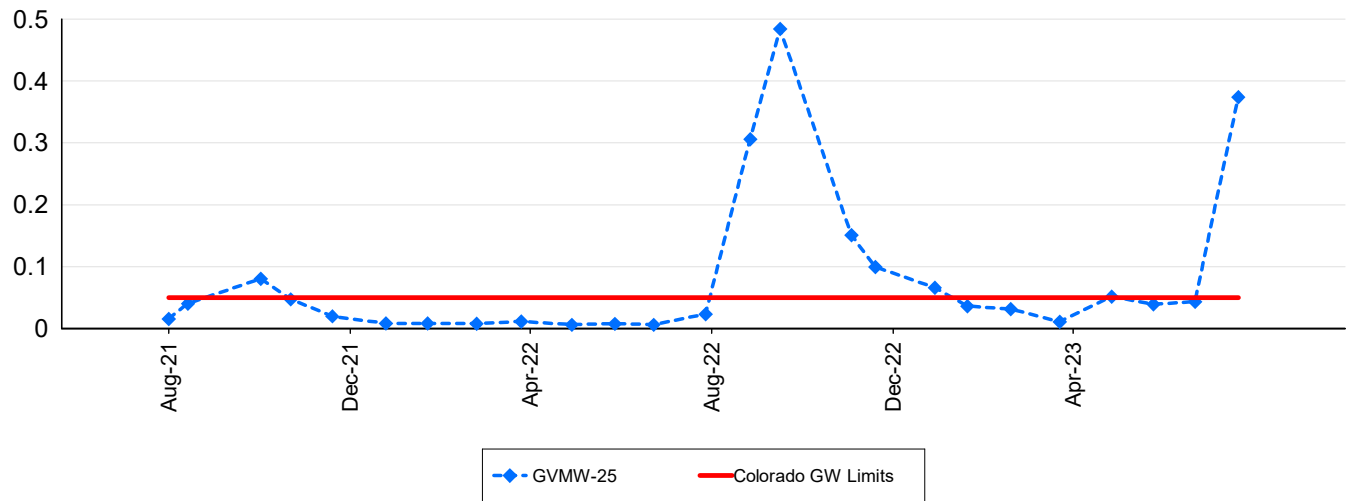
: Chloride - Total (mg/L)



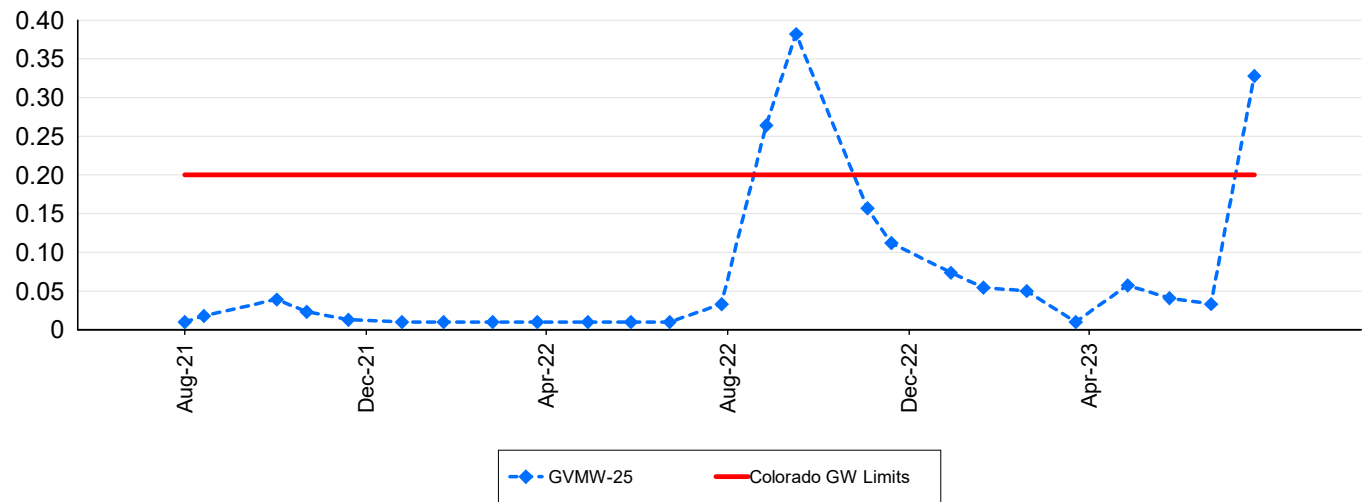
: Chromium - Dissolved (mg/L)



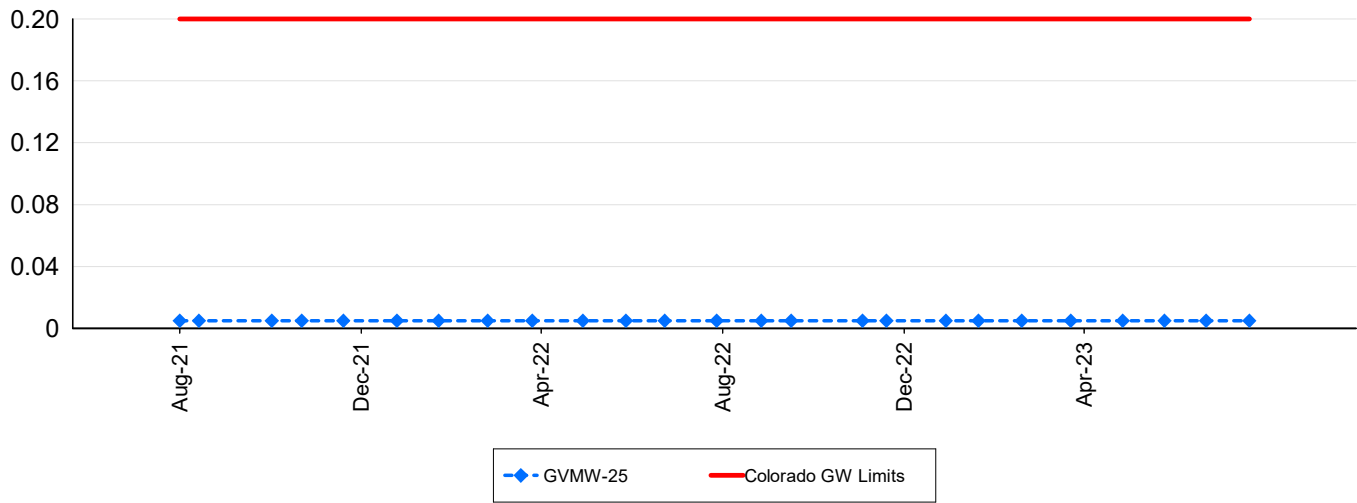
: Cobalt - Dissolved (mg/L)



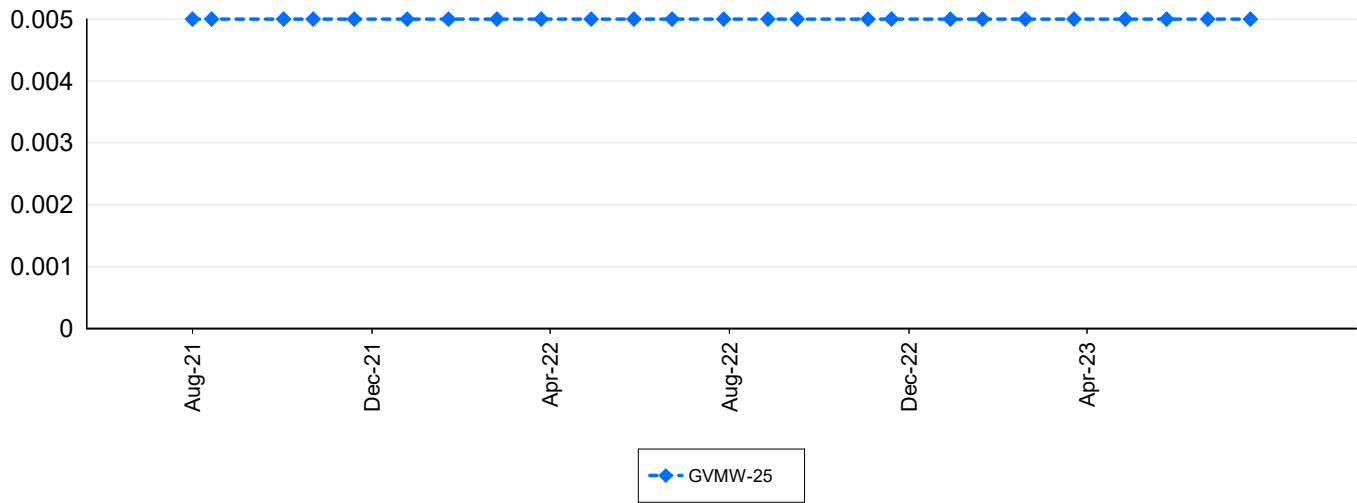
: Copper - Dissolved (mg/L)



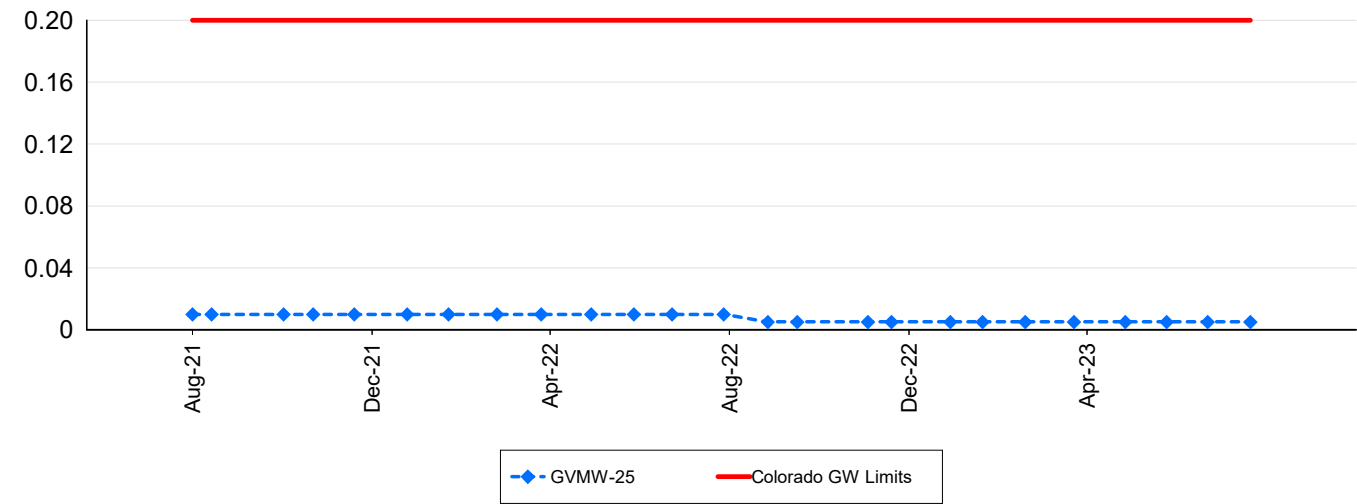
: Cyanide - Free (mg/L)



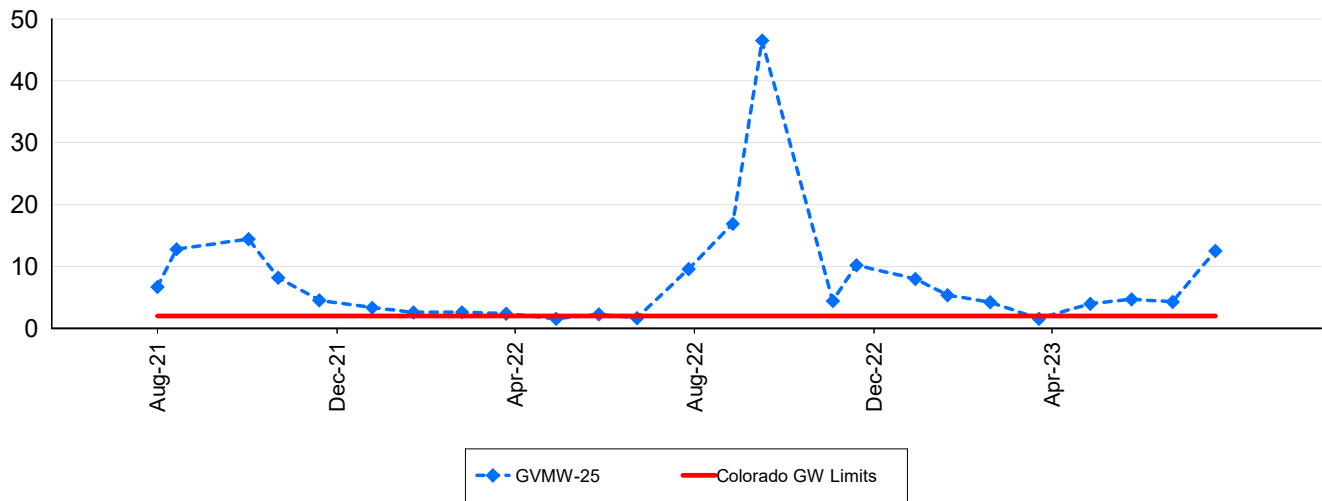
: Cyanide - Total (mg/L)



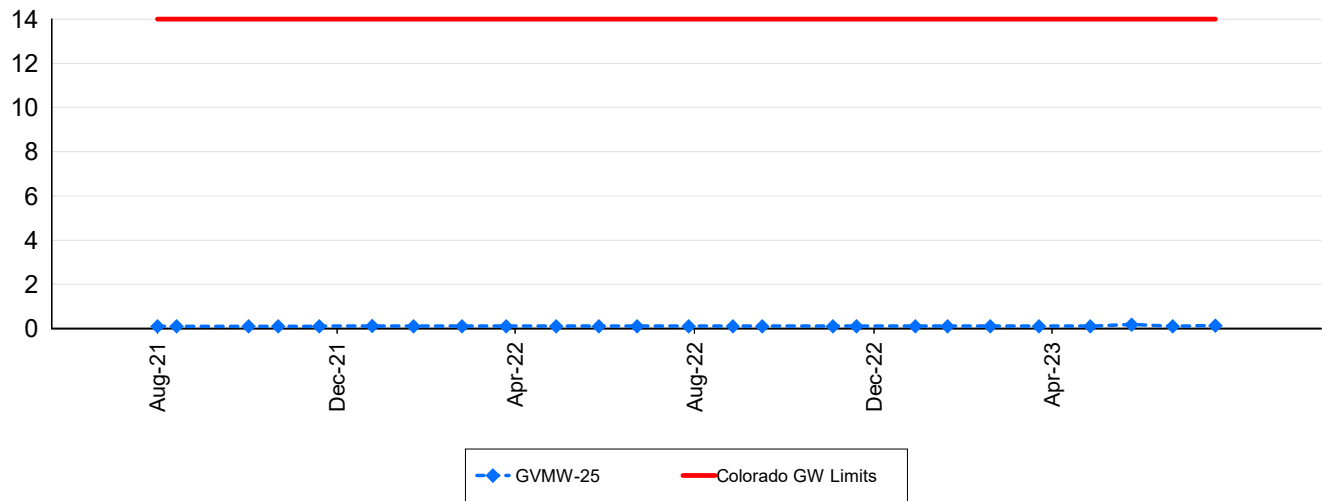
: Cyanide - WAD (mg/L)



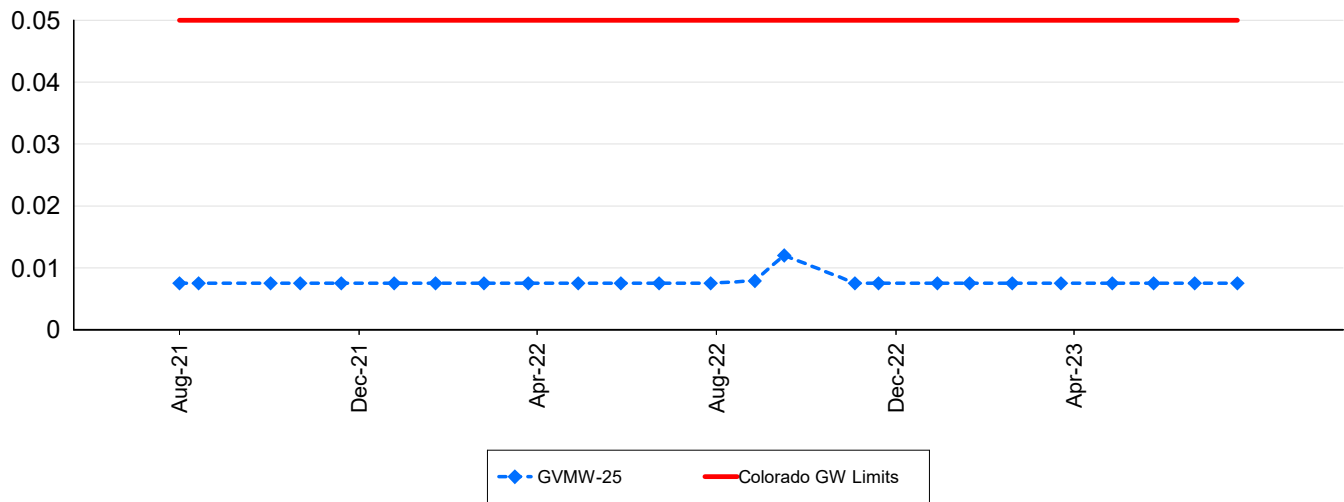
: Fluoride - Total F (mg/L)



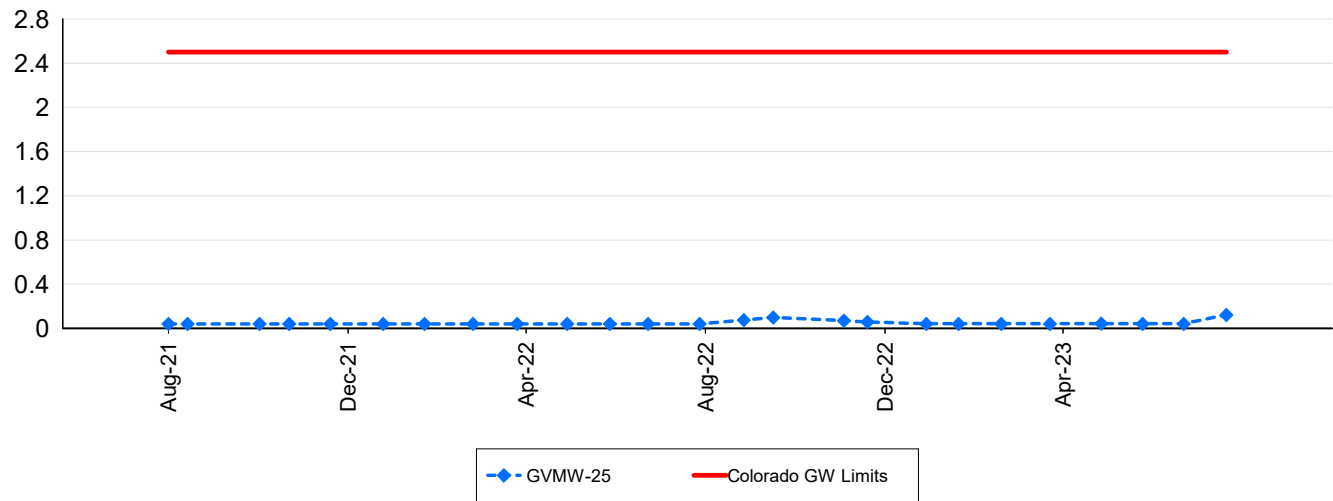
: Iron - Dissolved (mg/L)



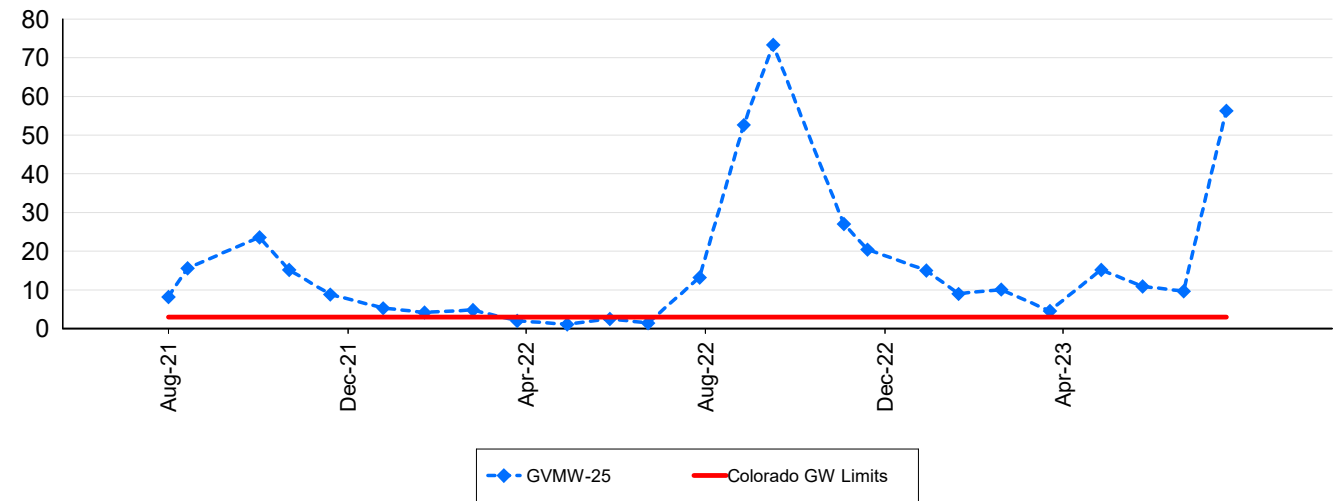
: Lead - Dissolved (mg/L)



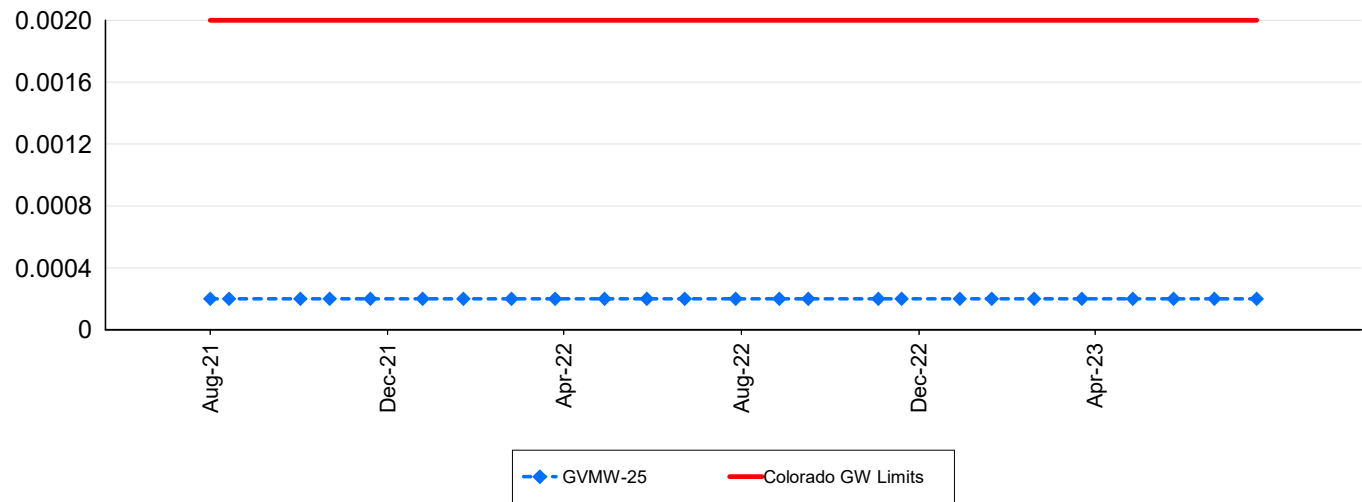
: Lithium - Dissolved (mg/L)



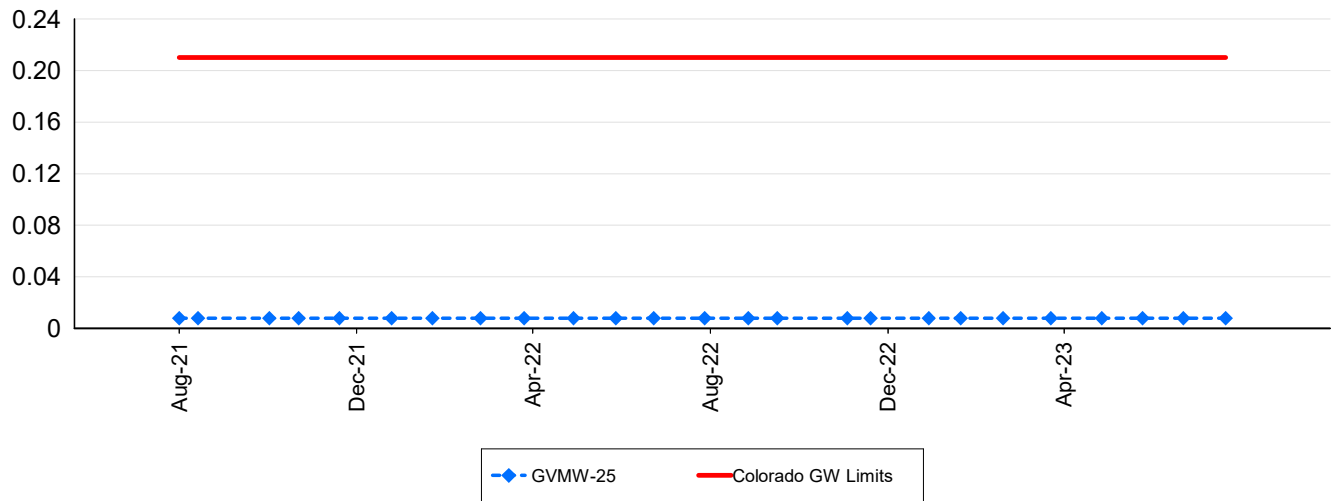
: Manganese - Dissolved (mg/L)



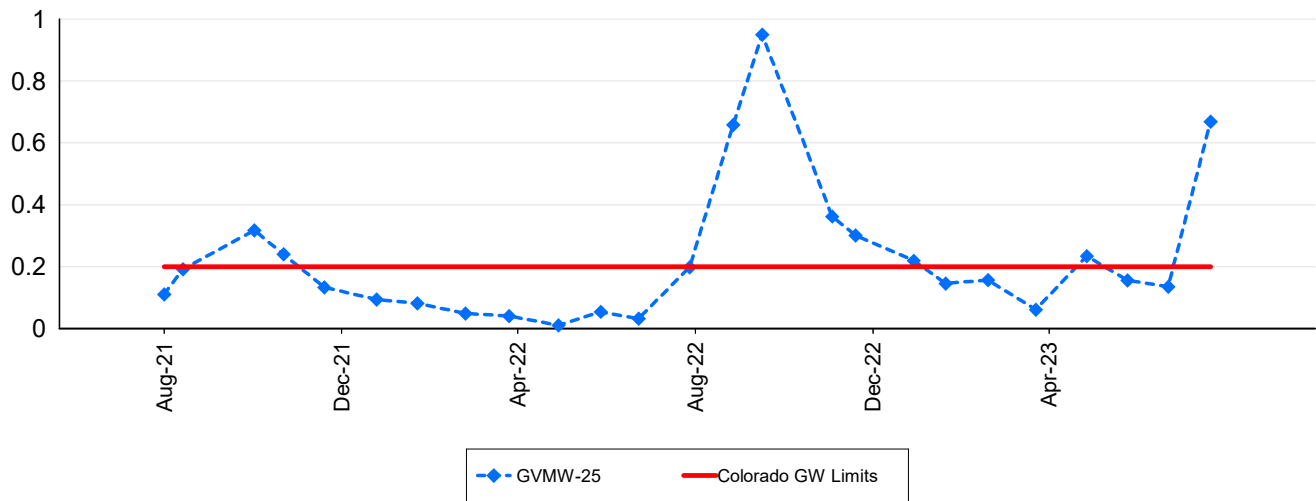
: Mercury - Dissolved (mg/L)



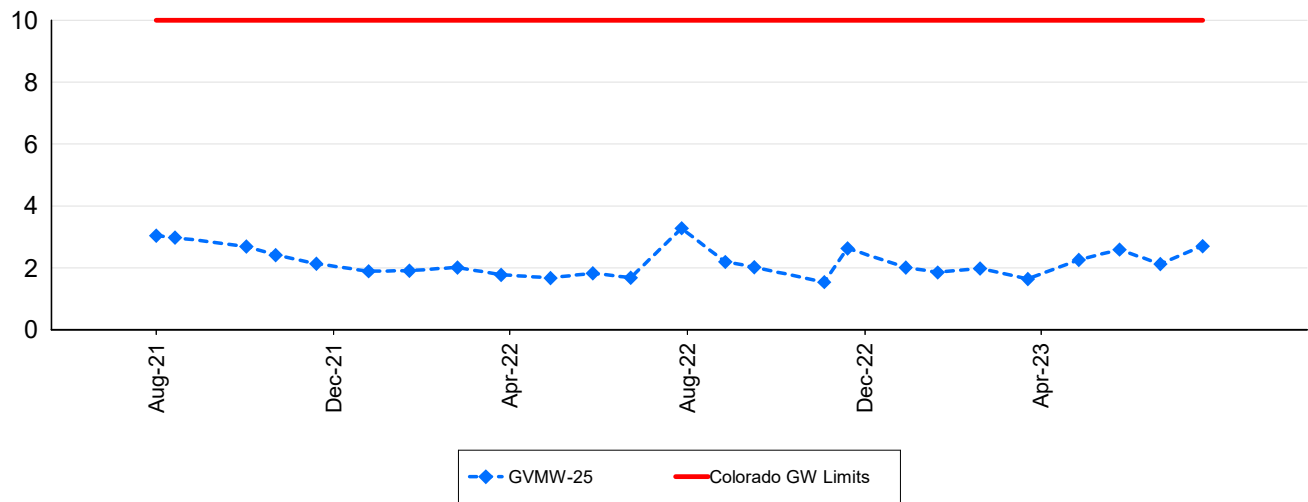
: Molybdenum - Dissolved (mg/L)



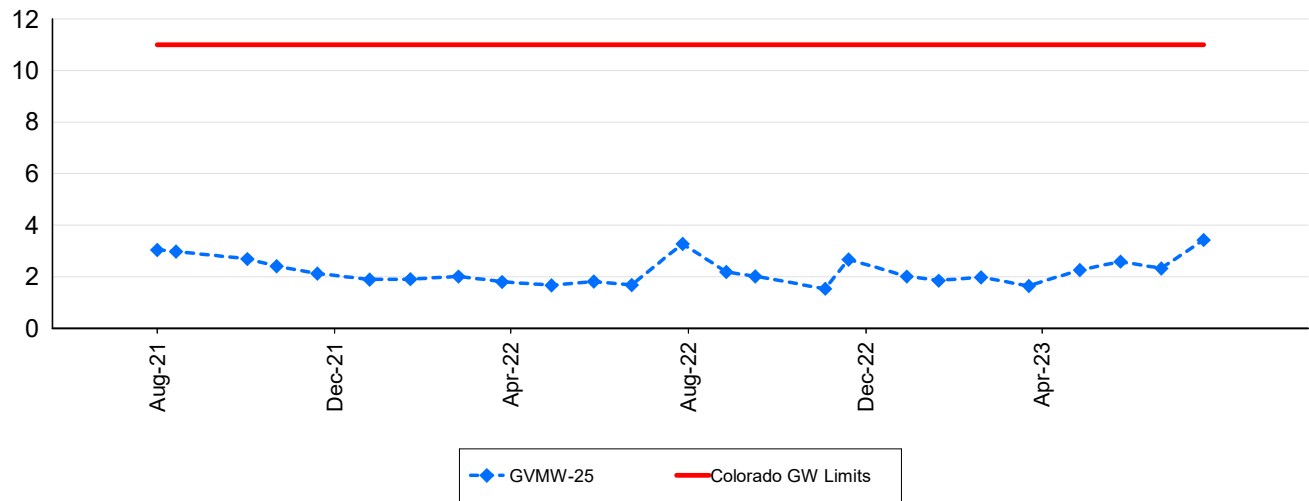
: Nickel - Dissolved (mg/L)



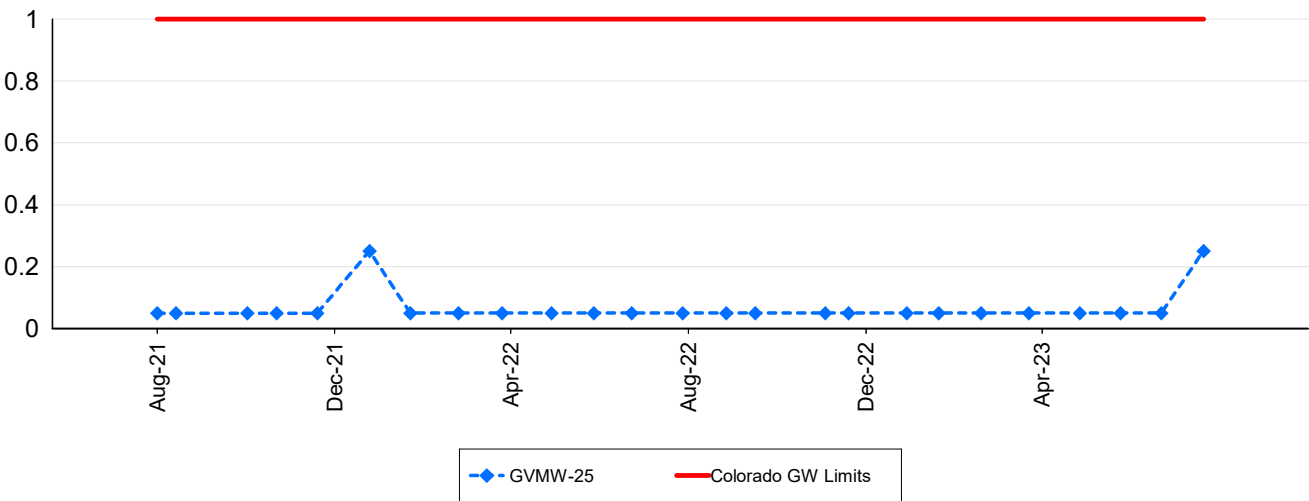
: Nitrate as Nitrogen (mg/L)



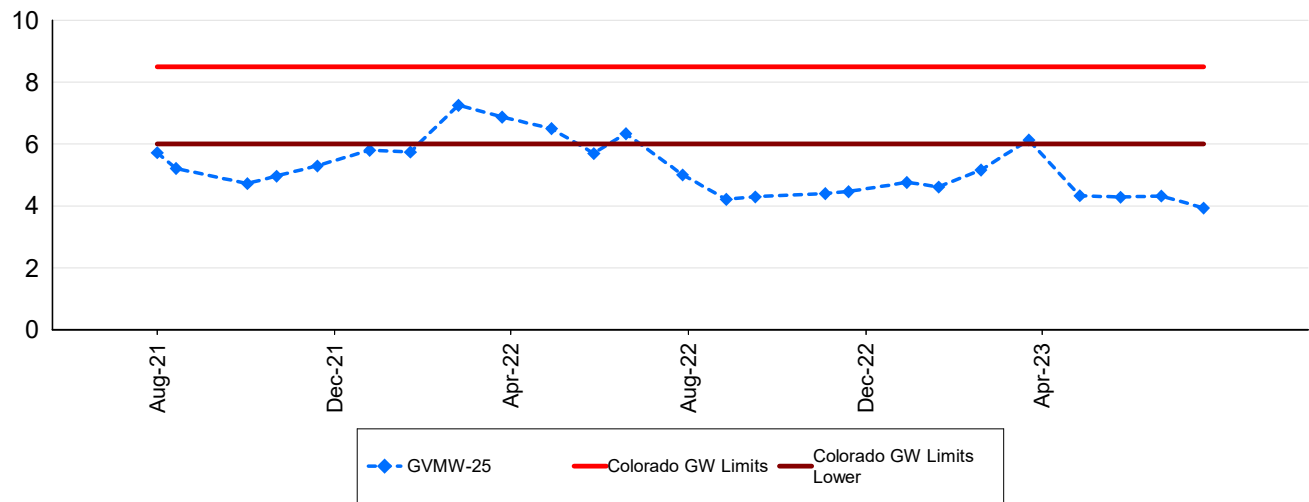
: Nitrite + Nitrate as Nitrogen (mg/L)



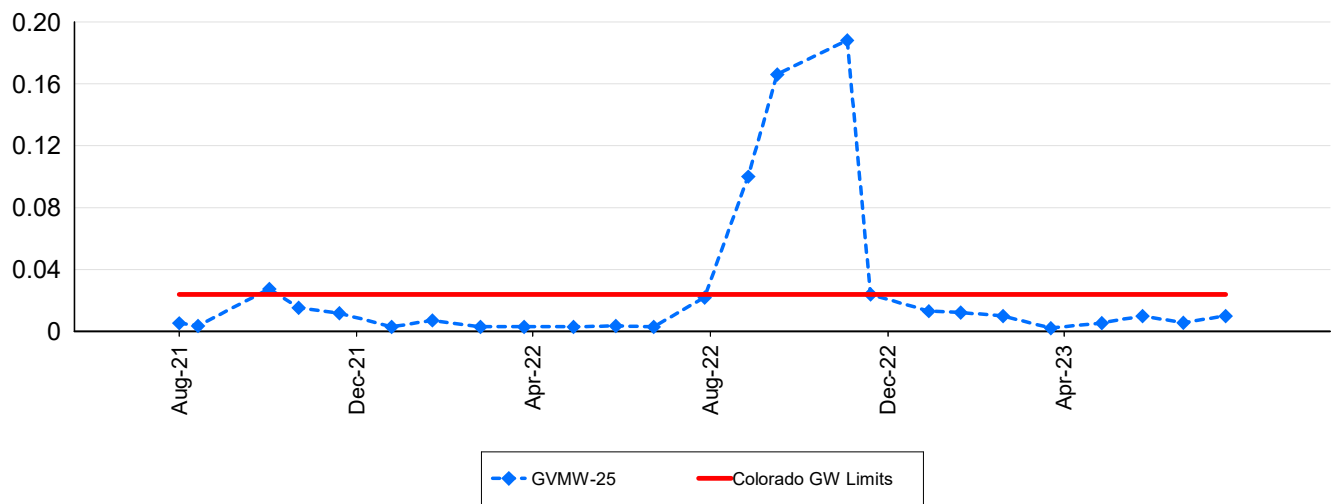
: Nitrite as Nitrogen (mg/L)



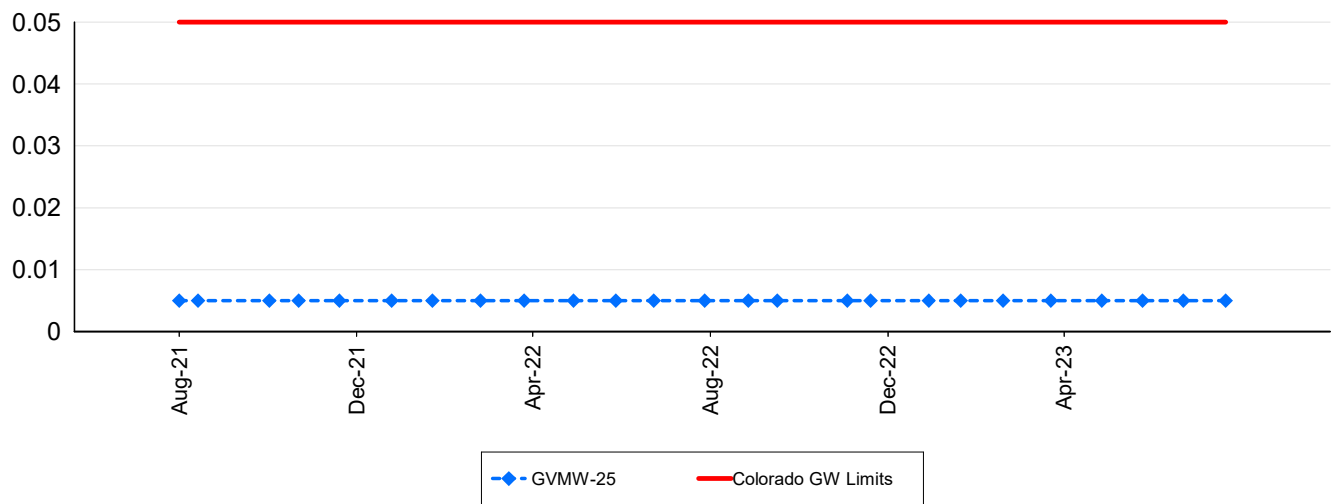
: pH Field (pH unit)



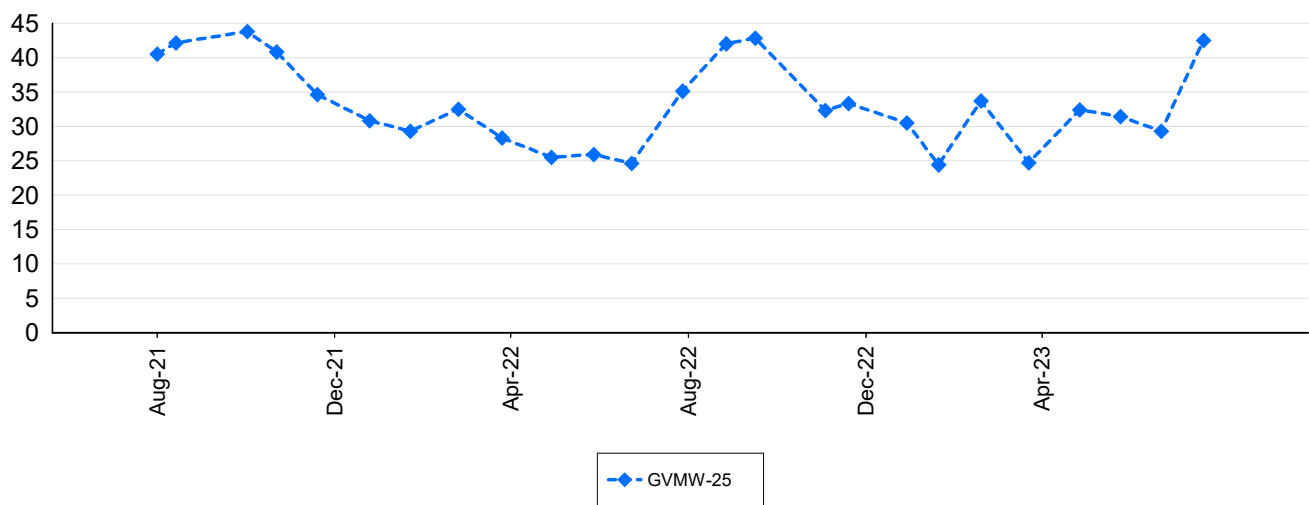
: Selenium - Dissolved (mg/L)



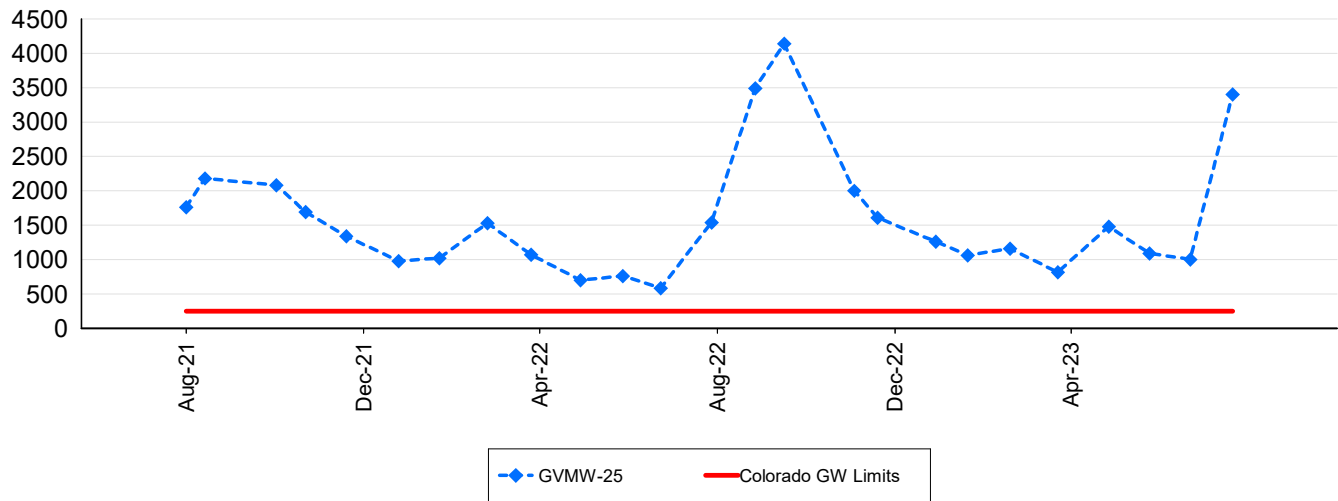
: Silver - Dissolved (mg/L)



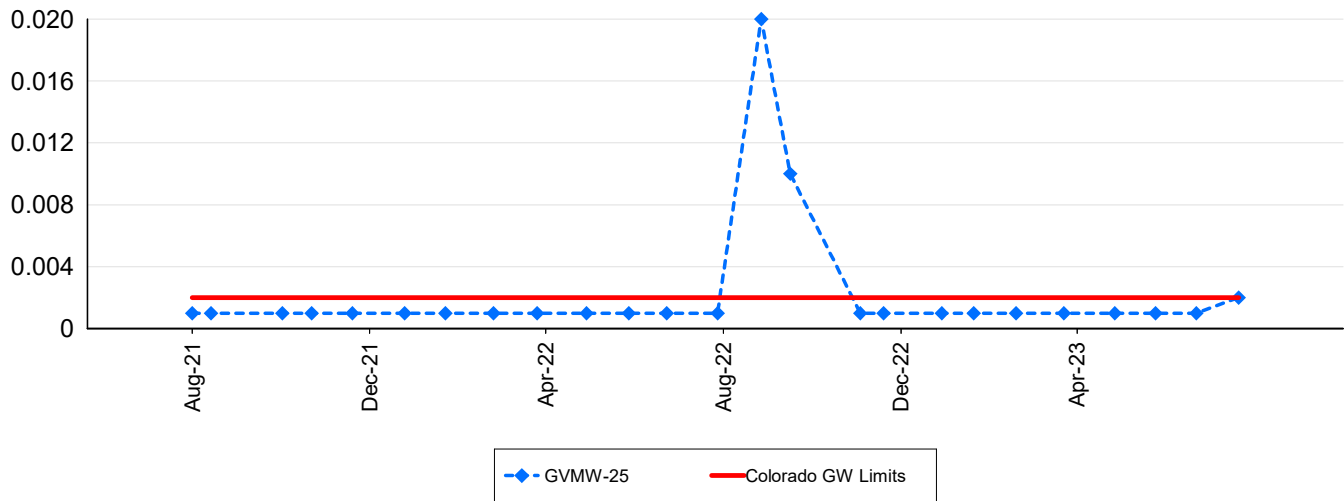
: Sodium - Dissolved (mg/L)



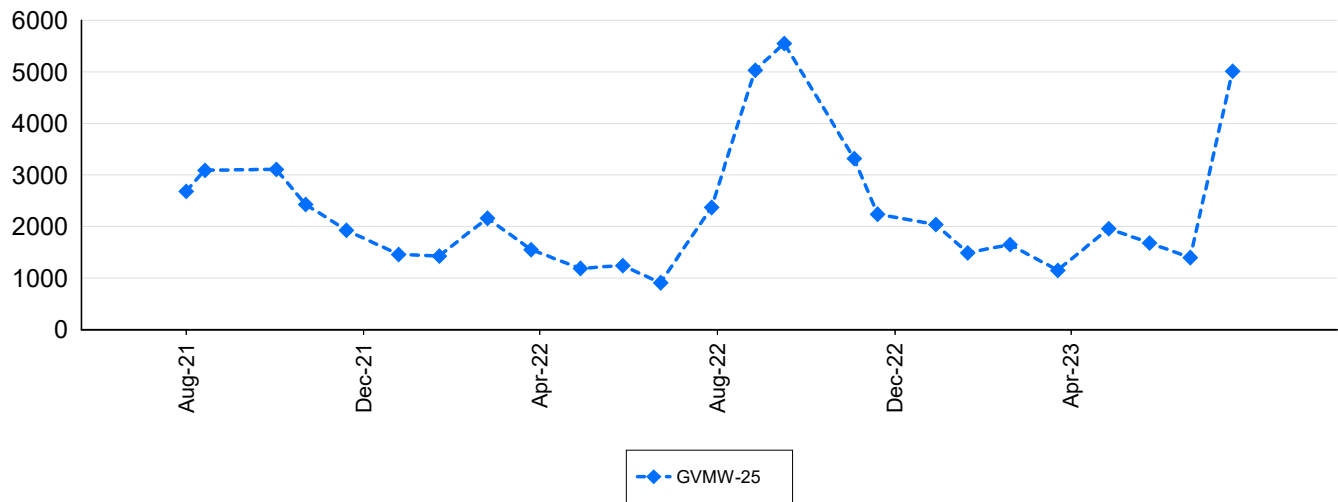
: Sulfate - Total (mg/L)



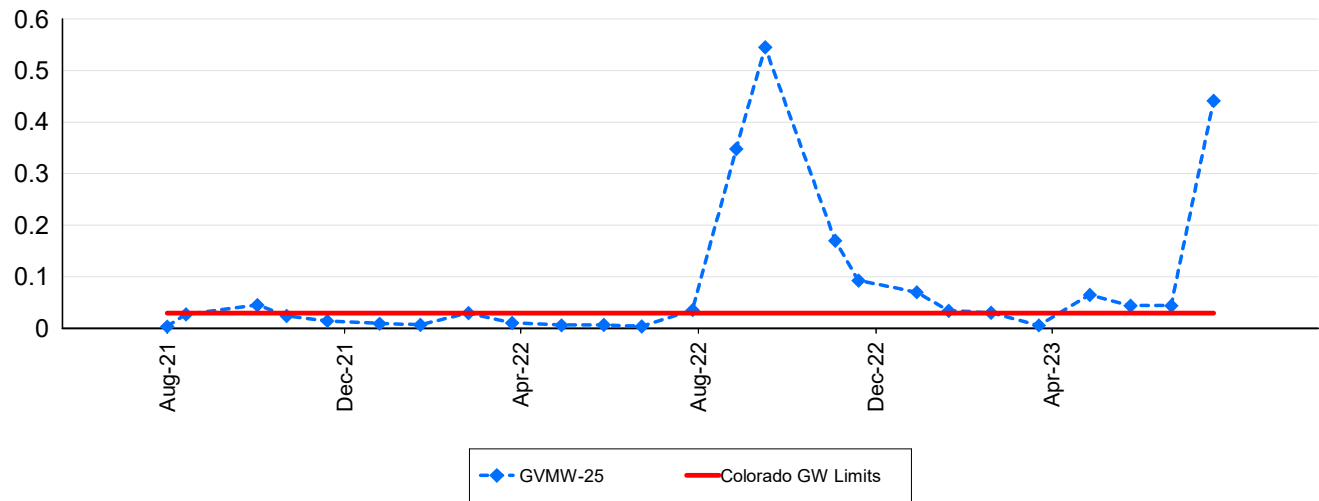
: Thallium - Dissolved (mg/L)



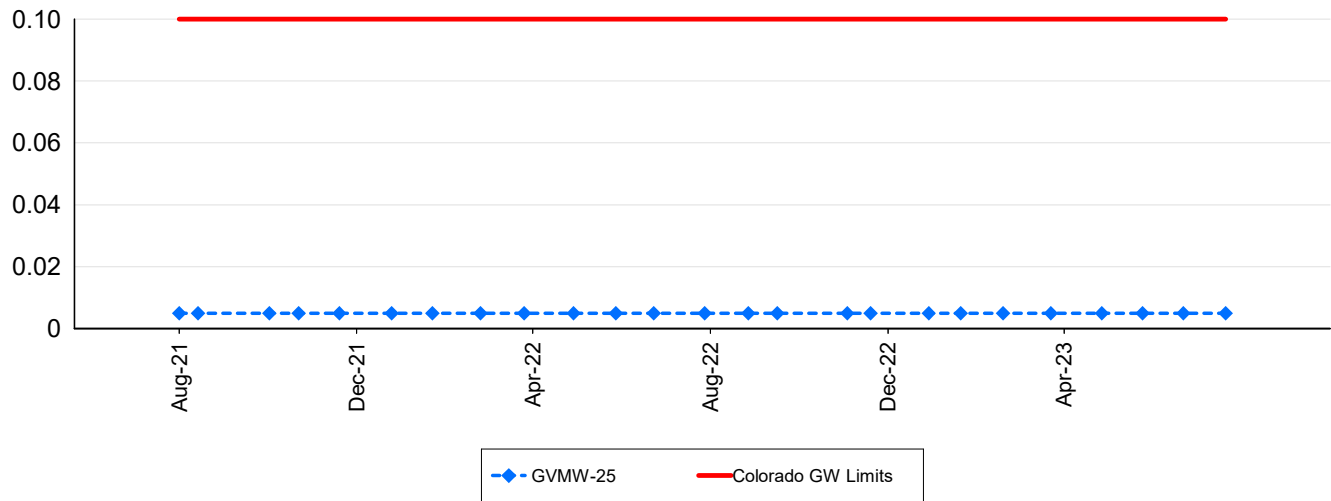
: Total Dissolved Solids (mg/L)



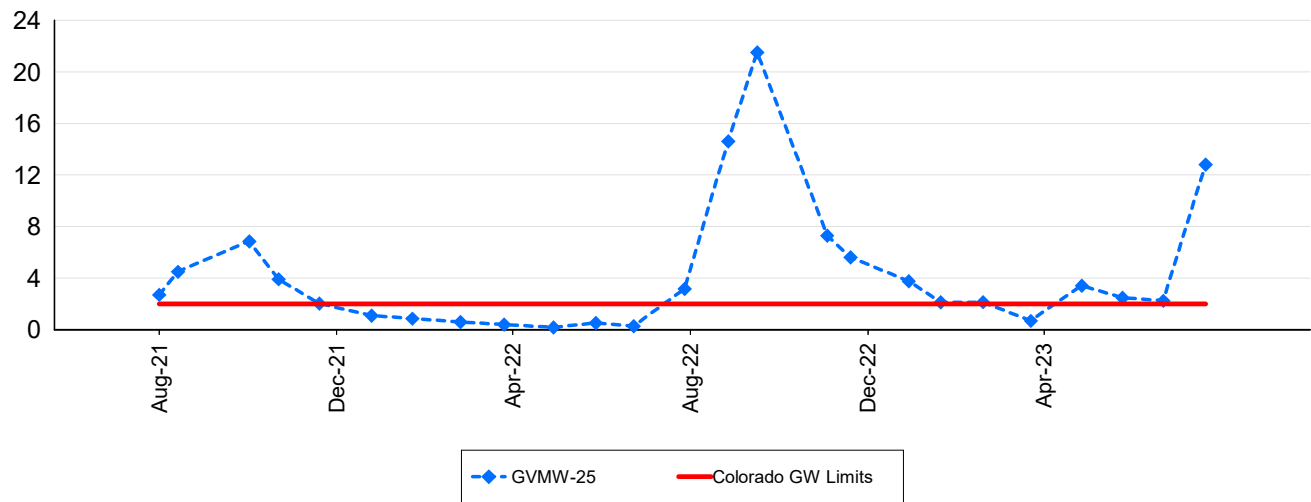
: Uranium - Dissolved (mg/L)



: 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: **X3H0154**

Reported: 31-Aug-23 16:39

Client Sample ID: **GVMW-25**SVL Sample ID: **X3H0154-03 (Ground Water)**

Sampled: 08-Aug-23 13:46

Received: 09-Aug-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	622	mg/L	1.00	0.690	10	X332268	JRR	08/15/23 20:23	D2,M4
EPA 200.7	Magnesium	188	mg/L	0.500	0.090		X332268	JRR	08/15/23 19:04	M3
EPA 200.7	Potassium	5.79	mg/L	0.50	0.18		X332268	JRR	08/15/23 19:04	
SM 2340 B	Hardness (as CaCO3)	2410	mg/L	2.31	0.543		N/A		08/15/23 19:04	

Metals (Dissolved)

EPA 200.7	Aluminum	149	mg/L	0.080	0.054		X332233	JRR	08/16/23 16:21	
EPA 200.7	Barium	0.0086	mg/L	0.0020	0.0019		X332233	JRR	08/16/23 16:21	
EPA 200.7	Beryllium	0.131	mg/L	0.00200	0.00080		X332233	JRR	08/16/23 16:21	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X332233	JRR	08/16/23 16:21	
EPA 200.7	Cadmium	0.384	mg/L	0.0020	0.0016		X332233	JRR	08/16/23 16:21	
EPA 200.7	Calcium	635	mg/L	0.100	0.069		X332233	JRR	08/16/23 16:21	
EPA 200.7	Chromium	0.0174	mg/L	0.0060	0.0020		X332233	JRR	08/16/23 16:21	
EPA 200.7	Cobalt	0.374	mg/L	0.0060	0.0046		X332233	JRR	08/16/23 16:21	
EPA 200.7	Copper	0.328	mg/L	0.0100	0.0027		X332233	JRR	08/16/23 16:21	
EPA 200.7	Iron	0.133	mg/L	0.100	0.056		X332233	JRR	08/16/23 16:21	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X332233	JRR	08/16/23 16:21	
EPA 200.7	Lithium	0.121	mg/L	0.040	0.025		X332233	JRR	08/16/23 16:21	
EPA 200.7	Magnesium	199	mg/L	0.500	0.090		X332233	JRR	08/16/23 16:21	
EPA 200.7	Manganese	56.3	mg/L	0.0080	0.0034		X332233	JRR	08/16/23 16:21	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X332233	JRR	08/16/23 16:21	
EPA 200.7	Nickel	0.668	mg/L	0.0100	0.0048		X332233	JRR	08/16/23 16:21	
EPA 200.7	Potassium	4.88	mg/L	0.50	0.18		X332233	JRR	08/16/23 16:21	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X332233	JRR	08/16/23 17:55	
EPA 200.7	Sodium	42.5	mg/L	0.50	0.12		X332233	JRR	08/16/23 16:21	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X332233	JRR	08/16/23 16:21	
EPA 200.7	Zinc	12.8	mg/L	0.0100	0.0054		X332233	JRR	08/16/23 16:21	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X333098	SMU	08/20/23 13:09	
EPA 200.8	Arsenic	0.0624	mg/L	0.00100	0.00021		X333098	SMU	08/20/23 13:09	
EPA 200.8	Selenium	< 0.0100	mg/L	0.0100	0.00240	10	X333098	SMU	08/20/23 14:18	D1
EPA 200.8	Thallium	< 0.00200	mg/L	0.00200	0.000800	10	X333098	SMU	08/20/23 14:18	D1
EPA 200.8	Uranium	0.441	mg/L	0.00100	0.000520	10	X333098	SMU	08/20/23 14:18	D1

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X333022	NMS	08/14/23 17:35	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X333141	HJL	08/28/23 10:57	H1
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X332256	DD	08/11/23 13:15	M2
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X332336	JRR	08/18/23 11:32	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X335125	HJL	08/31/23 11:13	H1,M3
SM 2310 B	Acidity to pH 8.3	1100	mg/L as CaCO3	10.0			X332307	MWD	08/11/23 09:17	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X332241	MWD	08/10/23 16:58	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X332241	MWD	08/10/23 16:58	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X332241	MWD	08/10/23 16:58	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X332241	MWD	08/10/23 16:58	
SM 2540 C	Total Diss. Solids	5010	mg/L	40			X332278	TJL	08/14/23 14:50	D2
SM 2540 D	Total Susp. Solids	9.0	mg/L	5.0			X332279	TJL	08/14/23 17:15	
SM 4500 H B	pH @22.1°C	3.9	pH Units				X332241	MWD	08/10/23 16:58	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: **X3H0154**

Reported: 31-Aug-23 16:39

Client Sample ID: **GVMW-25**SVL Sample ID: **X3H0154-03 (Ground Water)**

Sampled: 08-Aug-23 13:46

Received: 09-Aug-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	33.2	mg/L	1.00	0.11	5	X332208	RS	08/09/23 15:56	D2
EPA 300.0	Fluoride	12.5	mg/L	0.500	0.085	5	X332208	RS	08/09/23 15:56	D2
EPA 300.0	Nitrate as N	2.70	mg/L	0.250	0.065	5	X332208	RS	08/09/23 15:56	D1
EPA 300.0	Nitrate+Nitrite as N	3.43	mg/L	0.500	0.220	5	X332208	RS	08/09/23 15:56	D1
EPA 300.0	Nitrite as N	< 0.250	mg/L	0.250	0.155	5	X332208	RS	08/09/23 15:56	D1
EPA 300.0	Sulfate as SO4	3400	mg/L	30.0	18.0	100	X332208	RS	08/09/23 16:13	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 70.5 meq/L

Anion Sum: 72.6 meq/L

C/A Balance: -1.51 %

Calculated TDS: 4331

TDS/cTDS: 1.16

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

Kathryn Salter
Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Work Order: **X3H0155**

Reported: 07-Sep-23 08:43

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

Sampled: 08-Aug-23 11:00

Received: 09-Aug-23

Sampled By: PB

SVL Sample ID: **X3H0155-03 (Surface 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	27.6	mg/L	0.100	0.069		X332268	JRR	08/15/23 19:33	
EPA 200.7	Magnesium	6.57	mg/L	0.500	0.090		X332268	JRR	08/15/23 19:33	
EPA 200.7	Potassium	1.08	mg/L	0.50	0.18		X332268	JRR	08/15/23 19:33	
SM 2340 B	Hardness (as CaCO3)	93.0	mg/L	2.31	0.543		N/A		08/16/23 16:53	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X332233	JRR	08/16/23 16:53	
EPA 200.7	Barium	0.175	mg/L	0.0020	0.0019		X332233	JRR	08/16/23 16:53	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X332233	JRR	08/16/23 16:53	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X332233	JRR	08/16/23 16:53	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X332233	JRR	08/16/23 16:53	
EPA 200.7	Calcium	26.4	mg/L	0.100	0.069		X332233	JRR	08/16/23 16:53	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X332233	JRR	08/16/23 16:53	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X332233	JRR	08/16/23 16:53	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X332233	JRR	08/16/23 16:53	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X332233	JRR	08/16/23 16:53	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X332233	JRR	08/16/23 16:53	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X332233	JRR	08/16/23 16:53	
EPA 200.7	Magnesium	6.31	mg/L	0.500	0.090		X332233	JRR	08/16/23 16:53	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X332233	JRR	08/16/23 16:53	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X332233	JRR	08/16/23 16:53	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X332233	JRR	08/16/23 16:53	
EPA 200.7	Potassium	0.73	mg/L	0.50	0.18		X332233	JRR	08/16/23 16:53	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X332233	JRR	08/16/23 18:23	
EPA 200.7	Sodium	29.8	mg/L	0.50	0.12		X332233	JRR	08/16/23 16:53	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X332233	JRR	08/16/23 16:53	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X332233	JRR	08/16/23 16:53	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X333098	SMU	08/20/23 13:35	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X333098	SMU	08/20/23 13:35	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X333098	SMU	08/20/23 13:35	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X333098	SMU	08/20/23 13:35	
EPA 200.8	Uranium	0.00364	mg/L	0.000100	0.000052		X333098	SMU	08/20/23 13:35	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X333022	NMS	08/14/23 17:44	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X333141	HJL	08/28/23 11:05	H1
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X332031	JRR	08/11/23 12:37	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X332336	JRR	08/18/23 11:40	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X335125	HJL	08/31/23 11:19	H1
SM 2310 B	Acidity to pH 8.3	-132	mg/L as CaCO3	10.0			X332307	MWD	08/11/23 09:17	
SM 2320 B	Total Alkalinity	147	mg/L as CaCO3	1.0			X332241	MWD	08/10/23 17:31	
SM 2320 B	Bicarbonate	147	mg/L as CaCO3	1.0			X332241	MWD	08/10/23 17:31	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X332241	MWD	08/10/23 17:31	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X332241	MWD	08/10/23 17:31	
SM 2540 C	Total Diss. Solids	186	mg/L	10			X332278	TJL	08/14/23 14:50	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X332279	TJL	08/14/23 17:15	
SM 4500 H B	pH @22.1°C	8.0	pH Units				X332241	MWD	08/10/23 17:31	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: **X3H0155**

Reported: 07-Sep-23 08:43

Client Sample ID: **GVMW-26A**SVL Sample ID: **X3H0155-03 (Surface Water)**

Sampled: 08-Aug-23 11:00

Received: 09-Aug-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	2.06	mg/L	0.20	0.02		X332208	RS	08/09/23 19:04	
EPA 300.0	Fluoride	1.79	mg/L	0.100	0.017		X332208	RS	08/09/23 19:04	
EPA 300.0	Nitrate as N	0.094	mg/L	0.050	0.013		X332208	RS	08/09/23 19:04	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X332208	RS	08/09/23 19:04	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X332208	RS	08/09/23 19:04	
EPA 300.0	Sulfate as SO4	11.9	mg/L	0.30	0.18		X332208	RS	08/09/23 19:04	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.17 meq/L

Anion Sum: 3.34 meq/L

C/A Balance: -2.66 %

Calculated TDS: 168

TDS/cTDS: 1.11

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

Kathryn Salter
Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Work Order: **X3H0155**

Reported: 07-Sep-23 08:43

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

Sampled: 08-Aug-23 12:08

Received: 09-Aug-23

Sampled By: PB

SVL Sample ID: **X3H0155-04 (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 Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	11.7	mg/L	0.100	0.069		X332268	JRR	08/15/23 19:36	
EPA 200.7	Magnesium	2.48	mg/L	0.500	0.090		X332268	JRR	08/15/23 19:36	
EPA 200.7	Potassium	1.09	mg/L	0.50	0.18		X332268	JRR	08/15/23 19:36	
SM 2340 B	Hardness (as CaCO3)	37.8	mg/L	2.31	0.543		N/A		08/15/23 19:36	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X332233	JRR	08/16/23 16:56	
EPA 200.7	Barium	0.110	mg/L	0.0020	0.0019		X332233	JRR	08/16/23 16:56	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X332233	JRR	08/16/23 16:56	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X332233	JRR	08/16/23 16:56	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X332233	JRR	08/16/23 16:56	
EPA 200.7	Calcium	11.3	mg/L	0.100	0.069		X332233	JRR	08/16/23 16:56	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X332233	JRR	08/16/23 16:56	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X332233	JRR	08/16/23 16:56	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X332233	JRR	08/16/23 16:56	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X332233	JRR	08/16/23 16:56	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X332233	JRR	08/16/23 16:56	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X332233	JRR	08/16/23 16:56	
EPA 200.7	Magnesium	2.33	mg/L	0.500	0.090		X332233	JRR	08/16/23 16:56	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X332233	JRR	08/16/23 16:56	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X332233	JRR	08/16/23 16:56	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X332233	JRR	08/16/23 16:56	
EPA 200.7	Potassium	0.88	mg/L	0.50	0.18		X332233	JRR	08/16/23 16:56	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X332233	JRR	08/16/23 18:26	
EPA 200.7	Sodium	9.62	mg/L	0.50	0.12		X332233	JRR	08/16/23 16:56	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X332233	JRR	08/16/23 16:56	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X332233	JRR	08/16/23 16:56	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X333098	SMU	08/20/23 13:38	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X333098	SMU	08/20/23 13:38	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X333098	SMU	08/20/23 13:38	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X333098	SMU	08/20/23 13:38	
EPA 200.8	Uranium	0.000102	mg/L	0.000100	0.000052		X333098	SMU	08/20/23 13:38	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X333022	NMS	08/14/23 17:50	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X333141	HJL	08/28/23 11:07	H1
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X332031	JRR	08/11/23 12:40	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X332336	JRR	08/18/23 11:42	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X335125	HJL	08/31/23 11:20	H1
SM 2310 B	Acidity to pH 8.3	-32.4	mg/L as CaCO3	10.0			X332307	MWD	08/11/23 09:17	
SM 2320 B	Total Alkalinity	37.7	mg/L as CaCO3	1.0			X332241	MWD	08/10/23 17:37	
SM 2320 B	Bicarbonate	37.7	mg/L as CaCO3	1.0			X332241	MWD	08/10/23 17:37	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X332241	MWD	08/10/23 17:37	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X332241	MWD	08/10/23 17:37	
SM 2540 C	Total Diss. Solids	109	mg/L	10			X332278	TJL	08/14/23 14:50	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X332279	TJL	08/14/23 17:15	
SM 4500 H B	pH @22.1°C	6.7	pH Units				X332241	MWD	08/10/23 17:37	H5

SVL holds the following certifications:

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

Work order Report 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: **X3H0155**

Reported: 07-Sep-23 08:43

Client Sample ID: **GVMW-26B**SVL Sample ID: **X3H0155-04 (Surface Water)**

Sampled: 08-Aug-23 12:08

Received: 09-Aug-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	1.69	mg/L	0.20	0.02		X332208	RS	08/09/23 19:38	
EPA 300.0	Fluoride	0.224	mg/L	0.100	0.017		X332208	RS	08/09/23 19:38	
EPA 300.0	Nitrate as N	0.597	mg/L	0.050	0.013		X332208	RS	08/09/23 19:38	
EPA 300.0	Nitrate+Nitrite as N	0.597	mg/L	0.100	0.044		X332208	RS	08/09/23 19:38	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X332208	RS	08/09/23 19:38	
EPA 300.0	Sulfate as SO4	22.0	mg/L	0.30	0.18		X332208	RS	08/09/23 19:38	

Cation/Anion Balance and TDS Ratios

Cation Sum: 1.21 meq/L

Anion Sum: 1.31 meq/L

C/A Balance: -4.05 %

Calculated TDS: 74

TDS/cTDS: 1.48

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

Kathryn Salter
Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Work Order: **X3H0155**

Reported: 07-Sep-23 08:43

Client Sample ID: **GV- 06**

Sampled: 08-Aug-23 09:35

Received: 09-Aug-23

Sampled By: PB

SVL Sample ID: **X3H0155-01 (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		X333203	NMS	08/22/23 12:53	U
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Barium	0.121	mg/L	0.0020	0.0019		X332286	AS	08/21/23 09:55	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X332286	AS	08/21/23 09:55	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X332268	JRR	08/15/23 19:18	
EPA 200.7	Calcium	41.8	mg/L	0.100	0.069		X332268	JRR	08/15/23 19:18	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X332286	AS	08/21/23 09:55	
EPA 200.7	Iron	1.93	mg/L	0.100	0.056		X332268	JRR	08/15/23 19:18	
EPA 200.7	Magnesium	10.6	mg/L	0.500	0.090		X332268	JRR	08/15/23 19:18	
EPA 200.7	Manganese	0.950	mg/L	0.0080	0.0034		X332286	AS	08/21/23 09:55	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X332286	AS	08/21/23 09:55	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X332286	AS	08/21/23 09:55	
EPA 200.7	Phosphorus	0.068	mg/L	0.050	0.013		X332268	JRR	08/15/23 19:18	
EPA 200.7	Potassium	1.02	mg/L	0.50	0.18		X332268	JRR	08/15/23 19:18	
EPA 200.7	Sodium	12.7	mg/L	0.50	0.12		X332268	JRR	08/15/23 19:18	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X332286	AS	08/21/23 09:55	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X332289	SMU	08/24/23 08:08	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021	2	X332212	SMU	08/18/23 14:23	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X332289	SMU	08/24/23 08:08	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017	2	X332212	SMU	08/18/23 14:23	
EPA 200.8	Copper	< 0.00040	mg/L	0.00040	0.00036		X332289	SMU	08/24/23 08:08	
EPA 200.8	Lead	0.00035	mg/L	0.00020	0.00014		X332289	SMU	08/24/23 08:08	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X332289	SMU	08/24/23 08:08	
SM 2340 B	Hardness (as CaCO3)	150	mg/L	2.31	0.543		N/A		08/15/23 19:18	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X332233	JRR	08/16/23 16:28	
EPA 200.7	Barium	0.0929	mg/L	0.0020	0.0019		X332233	JRR	08/16/23 16:28	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X332233	JRR	08/16/23 16:28	
EPA 200.7	Calcium	42.5	mg/L	0.100	0.069		X332233	JRR	08/16/23 16:28	
EPA 200.7	Iron	0.608	mg/L	0.100	0.056		X332233	JRR	08/16/23 16:28	
EPA 200.7	Magnesium	10.7	mg/L	0.500	0.090		X332233	JRR	08/16/23 16:28	
EPA 200.7	Manganese	0.476	mg/L	0.0080	0.0034		X332233	JRR	08/16/23 16:28	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X332233	JRR	08/16/23 16:28	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X332233	JRR	08/16/23 16:28	
EPA 200.7	Potassium	0.72	mg/L	0.50	0.18		X332233	JRR	08/16/23 16:28	
EPA 200.7	Sodium	12.1	mg/L	0.50	0.12		X332233	JRR	08/16/23 16:28	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X332233	JRR	08/16/23 16:28	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X333098	SMU	08/20/23 13:15	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X333098	SMU	08/20/23 13:15	
EPA 200.8	Cadmium	0.000545	mg/L	0.000100	0.000063		X333098	SMU	08/20/23 13:15	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X333098	SMU	08/20/23 13:15	
EPA 200.8	Copper	0.00078	mg/L	0.00040	0.00036		X333098	SMU	08/20/23 13:15	
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X333098	SMU	08/20/23 13:15	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X333098	SMU	08/20/23 13:15	
EPA 200.8	Silver	< 0.00008	mg/L	0.00008	0.000061		X333098	SMU	08/21/23 07:24	M2
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X333098	SMU	08/20/23 13:15	
EPA 200.8	Uranium	0.00182	mg/L	0.000100	0.000052		X333098	SMU	08/20/23 13:15	

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: **X3H0155**

Reported: 07-Sep-23 08:43

Client Sample ID: **GV- 06**SVL Sample ID: **X3H0155-01 (Surface Water)**

Sampled: 08-Aug-23 09:35

Received: 09-Aug-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		X333022	NMS	08/14/23 17:40	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X333141	HJL	08/28/23 11:01	H1
Calculation	Chromium(III)	< 0.0110	mg/L	0.0110	0.00390		N/A		08/21/23 15:38	
Calculation	Nitrogen, Total as N	< 2.60	mg/L	2.60	1.58		N/A		08/23/23 13:35	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X332031	JRR	08/11/23 12:21	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X332336	JRR	08/18/23 11:36	
EPA 351.2	TKN	< 2.50	mg/L	2.50	1.54	5	X332331	HJL	08/23/23 13:35	D1
Hach 8167	Total Chlorine	0.15	mg/L	0.020			X332311	NMS	08/11/23 10:24	H5
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X335125	HJL	08/31/23 11:16	H1
SM 2310 B	Acidity to pH 8.3	-120	mg/L as CaCO3	10.0			X332307	MWD	08/11/23 09:17	
SM 2320 B	Total Alkalinity	125	mg/L as CaCO3	1.0			X332241	MWD	08/10/23 17:10	
SM 2320 B	Bicarbonate	125	mg/L as CaCO3	1.0			X332241	MWD	08/10/23 17:10	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X332241	MWD	08/10/23 17:10	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X332241	MWD	08/10/23 17:10	
SM 2540 C	Total Diss. Solids	233	mg/L	10			X332278	TJL	08/14/23 14:50	
SM 2540 D	Total Susp. Solids	15.0	mg/L	5.0			X332279	TJL	08/14/23 17:15	
SM 4500 H B	pH @22.0°C	7.7	pH Units				X332241	MWD	08/10/23 17:10	H5
SM 4500 S D	Sulfide	< 0.050	mg/L	0.050	0.020		X332323	NMS	08/11/23 12:55	
SM 4500-O-G	Dissolved Oxygen	7.2	mg/L	0.1			X334195	TJL	08/24/23 16:00	H3,H5

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	< 0.0050	mg/L	0.0050	0.0019		X334015	NMS	08/21/23 15:38	
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Filtered Classical Chemistry Parameters

Calculation	Chromium (III)	< 0.00600	mg/L	0.00600	0.00207		N/A		08/21/23 15:38	
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Anions by Ion Chromatography

EPA 300.0	Chloride	7.60	mg/L	0.20	0.02		X332208	RS	08/09/23 17:39	
EPA 300.0	Fluoride	0.580	mg/L	0.100	0.017		X332208	RS	08/09/23 17:39	
EPA 300.0	Nitrate as N	0.198	mg/L	0.050	0.013		X332208	RS	08/09/23 17:39	
EPA 300.0	Nitrate+Nitrite as N	0.214	mg/L	0.100	0.044		X332208	RS	08/09/23 17:39	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X332208	RS	08/09/23 17:39	
EPA 300.0	Sulfate as SO4	46.9	mg/L	0.30	0.18		X332208	RS	08/09/23 17:39	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.55 meq/L	Anion Sum: 3.73 meq/L	C/A Balance: -2.52 %	Calculated TDS: 197	TDS/cTDS: 1.18
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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: **X3H0154**

Reported: 31-Aug-23 16:39

Client Sample ID: **ECOSA Seep-1**SVL Sample ID: **X3H0154-01 (Ground Water)**

Sampled: 08-Aug-23 08:00

Received: 09-Aug-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	371	mg/L	2.00	1.38	20	X332268	JRR	08/15/23 18:57	D1
EPA 200.7	Magnesium	1050	mg/L	10.0	1.80	20	X332268	JRR	08/15/23 18:57	D2
EPA 200.7	Potassium	< 10.0	mg/L	10.0	3.60	20	X332268	JRR	08/15/23 18:57	D1
SM 2340 B	Hardness (as CaCO3)	5250	mg/L	46.2	10.9		N/A		08/16/23 16:14	
Metals (Dissolved)										
EPA 200.7	Aluminum	4760	mg/L	8.00	5.40	100	X332233	JRR	08/16/23 16:14	D2
EPA 200.7	Barium	< 0.200	mg/L	0.200	0.190	100	X332233	JRR	08/16/23 16:14	D1
EPA 200.7	Beryllium	0.590	mg/L	0.200	0.0800	100	X332233	JRR	08/16/23 16:14	D1
EPA 200.7	Boron	< 4.00	mg/L	4.00	0.780	100	X332233	JRR	08/16/23 16:14	D1
EPA 200.7	Cadmium	14.6	mg/L	0.200	0.160	100	X332233	JRR	08/16/23 16:14	D1
EPA 200.7	Calcium	439	mg/L	10.0	6.90	100	X332233	JRR	08/16/23 16:14	D1
EPA 200.7	Chromium	1.80	mg/L	0.600	0.200	100	X332233	JRR	08/16/23 16:14	D1
EPA 200.7	Cobalt	15.1	mg/L	0.600	0.460	100	X332233	JRR	08/16/23 16:14	D1
EPA 200.7	Copper	35.1	mg/L	1.00	0.270	100	X332233	JRR	08/16/23 16:14	D1
EPA 200.7	Iron	3830	mg/L	10.0	5.60	100	X332233	JRR	08/16/23 16:14	D2
EPA 200.7	Lead	< 0.750	mg/L	0.750	0.490	100	X332233	JRR	08/16/23 16:14	D1
EPA 200.7	Lithium	< 4.00	mg/L	4.00	2.50	100	X332233	JRR	08/16/23 16:14	D1
EPA 200.7	Magnesium	987	mg/L	50.0	9.00	100	X332233	JRR	08/16/23 16:14	D2
EPA 200.7	Manganese	1360	mg/L	0.800	0.340	100	X332233	JRR	08/16/23 16:14	D2
EPA 200.7	Molybdenum	< 0.800	mg/L	0.800	0.340	100	X332233	JRR	08/16/23 16:14	D1
EPA 200.7	Nickel	12.0	mg/L	1.00	0.480	100	X332233	JRR	08/16/23 16:14	D1
EPA 200.7	Potassium	< 50.0	mg/L	50.0	18.0	100	X332233	JRR	08/16/23 16:14	D1
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X332233	JRR	08/16/23 17:48	
EPA 200.7	Sodium	< 50.0	mg/L	50.0	12.0	100	X332233	JRR	08/16/23 16:14	D1
EPA 200.7	Vanadium	< 0.500	mg/L	0.500	0.190	100	X332233	JRR	08/16/23 16:14	D1
EPA 200.7	Zinc	229	mg/L	1.00	0.540	100	X332233	JRR	08/16/23 16:14	D2
EPA 200.8	Antimony	< 0.100	mg/L	0.100	0.0720	100	X333098	SMU	08/20/23 13:04	D1
EPA 200.8	Arsenic	1.91	mg/L	0.100	0.0210	100	X333098	SMU	08/20/23 13:04	D2
EPA 200.8	Selenium	< 1.00	mg/L	1.00	0.240	1000	X333098	SMU	08/20/23 14:13	D1
EPA 200.8	Thallium	< 0.0200	mg/L	0.0200	0.00800	100	X333098	SMU	08/20/23 13:04	D1
EPA 200.8	Uranium	19.1	mg/L	0.0100	0.00520	100	X333098	SMU	08/20/23 13:04	D2
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X333022	NMS	08/14/23 17:31	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0500	mg/L	0.0500	0.0480	10	X333141	HJL	08/28/23 12:09	D1,E12,H1,N1,Q20,Q26,V9
EPA 335.4	Cyanide (total)	0.0524	mg/L	0.0050	0.0038		X332256	DD	08/11/23 12:58	
EPA 350.1	Ammonia as N	< 0.300	mg/L	0.300	0.127	10	X332336	JRR	08/18/23 11:28	D1
OIA 1677	Cyanide (WAD)	< 0.0500	mg/L	0.0500	0.0100	10	X335125	HJL	08/31/23 13:59	D1,H1,N1,Q1,2,Q20,Q26,V9
SM 2310 B	Acidity to pH 8.3	1100	mg/L as CaCO3	10.0			X332307	MWD	08/11/23 09:17	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X332241	MWD	08/10/23 16:48	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X332241	MWD	08/10/23 16:48	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X332241	MWD	08/10/23 16:48	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X332241	MWD	08/10/23 16:48	
SM 2540 C	Total Diss. Solids	59900	mg/L	100			X332278	TJL	08/14/23 14:50	D2,E11
SM 2540 D	Total Susp. Solids	94.0	mg/L	5.0			X332279	TJL	08/14/23 17:15	
SM 4500 H B	pH @22.3°C	2.3	pH Units				X332241	MWD	08/10/23 16:48	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



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: **X3H0154**

Reported: 31-Aug-23 16:39

Client Sample ID: **ECOSA Seep-1**SVL Sample ID: **X3H0154-01 (Ground Water)**

Sampled: 08-Aug-23 08:00

Received: 09-Aug-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	X332208	RS	08/09/23 14:49	D2
EPA 300.0	Fluoride	40.1	mg/L	10.0	1.70	100	X332208	RS	08/09/23 14:49	D2
EPA 300.0	Nitrate as N	14.9	mg/L	5.00	1.30	100	X332208	RS	08/09/23 14:49	D2
EPA 300.0	Nitrate+Nitrite as N	15.2	mg/L	10.0	4.40	100	X332208	RS	08/09/23 14:49	D2
EPA 300.0	Nitrite as N	< 5.00	mg/L	5.00	3.10	100	X332208	RS	08/09/23 14:49	D1
EPA 300.0	Sulfate as SO4	46800	mg/L	750	450	2500	X332208	RS	08/09/23 15:05	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 825 meq/L

Anion Sum: 978 meq/L

C/A Balance: -8.47 %

Calculated TDS: 48331

TDS/cTDS: 1.24

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

Kathryn Salter
Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Work Order: **X3H0154**

Reported: 31-Aug-23 16:39

Client Sample ID: **ECOSA Seep-2**SVL Sample ID: **X3H0154-02 (Ground Water)**

Sampled: 08-Aug-23 07:42

Received: 09-Aug-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	381	mg/L	10.0	6.90	100	X332268	JRR	08/15/23 19:01	D1
EPA 200.7	Magnesium	1680	mg/L	50.0	9.00	100	X332268	JRR	08/15/23 19:01	D2
EPA 200.7	Potassium	< 50.0	mg/L	50.0	18.0	100	X332268	JRR	08/15/23 19:01	D1
SM 2340 B	Hardness (as CaCO3)	7860	mg/L	231	54.3		N/A		08/16/23 16:17	

Metals (Dissolved)

EPA 200.7	Aluminum	16600	mg/L	8.00	5.40	100	X332233	JRR	08/16/23 16:17	D2
EPA 200.7	Barium	< 0.200	mg/L	0.200	0.190	100	X332233	JRR	08/16/23 16:17	D1
EPA 200.7	Beryllium	1.60	mg/L	0.200	0.0800	100	X332233	JRR	08/16/23 16:17	D1
EPA 200.7	Boron	< 4.00	mg/L	4.00	0.780	100	X332233	JRR	08/16/23 16:17	D1
EPA 200.7	Cadmium	86.0	mg/L	0.200	0.160	100	X332233	JRR	08/16/23 16:17	D2
EPA 200.7	Calcium	481	mg/L	10.0	6.90	100	X332233	JRR	08/16/23 16:17	D1
EPA 200.7	Chromium	5.09	mg/L	0.600	0.200	100	X332233	JRR	08/16/23 16:17	D1
EPA 200.7	Cobalt	42.8	mg/L	0.600	0.460	100	X332233	JRR	08/16/23 16:17	D1
EPA 200.7	Copper	203	mg/L	1.00	0.270	100	X332233	JRR	08/16/23 16:17	D2
EPA 200.7	Iron	16500	mg/L	10.0	5.60	100	X332233	JRR	08/16/23 16:17	D2
EPA 200.7	Lead	< 0.750	mg/L	0.750	0.490	100	X332233	JRR	08/16/23 16:17	D1
EPA 200.7	Lithium	4.25	mg/L	4.00	2.50	100	X332233	JRR	08/16/23 16:17	D1
EPA 200.7	Magnesium	2050	mg/L	50.0	9.00	100	X332233	JRR	08/16/23 16:17	D2
EPA 200.7	Manganese	6370	mg/L	0.800	0.340	100	X332233	JRR	08/16/23 16:17	D2
EPA 200.7	Molybdenum	< 0.800	mg/L	0.800	0.340	100	X332233	JRR	08/16/23 16:17	D1
EPA 200.7	Nickel	26.6	mg/L	1.00	0.480	100	X332233	JRR	08/16/23 16:17	D1
EPA 200.7	Potassium	< 50.0	mg/L	50.0	18.0	100	X332233	JRR	08/16/23 16:17	D1
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X332233	JRR	08/16/23 17:51	
EPA 200.7	Sodium	< 50.0	mg/L	50.0	12.0	100	X332233	JRR	08/16/23 16:17	D1
EPA 200.7	Vanadium	1.04	mg/L	0.500	0.190	100	X332233	JRR	08/16/23 16:17	D1
EPA 200.7	Zinc	3220	mg/L	1.00	0.540	100	X332233	JRR	08/16/23 16:17	D2
EPA 200.8	Antimony	0.103	mg/L	0.100	0.0720	100	X333098	SMU	08/20/23 13:07	D1
EPA 200.8	Arsenic	26.4	mg/L	0.100	0.0210	100	X333098	SMU	08/20/23 13:07	D2
EPA 200.8	Selenium	< 10.0	mg/L	10.0	2.40	10000	X333098	SMU	08/20/23 14:42	D1
EPA 200.8	Thallium	< 0.200	mg/L	0.200	0.0800	1000	X333098	SMU	08/20/23 14:15	D1
EPA 200.8	Uranium	137	mg/L	0.100	0.0520	1000	X333098	SMU	08/20/23 14:15	D2

Metals (Filtered)

EPA 245.1	Mercury	0.000681	mg/L	0.000200	0.000093		X333022	NMS	08/14/23 17:33	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0500	mg/L	0.0500	0.0480	10	X333141	HJL	08/28/23 12:11	D1,E12,H1,N1,Q20,Q26,V9
EPA 335.4	Cyanide (total)	0.0177	mg/L	0.0050	0.0038		X332256	DD	08/11/23 13:12	
EPA 350.1	Ammonia as N	< 0.300	mg/L	0.300	0.127	10	X332336	JRR	08/18/23 11:30	D1
OIA 1677	Cyanide (WAD)	< 0.0500	mg/L	0.0500	0.0100	10	X335125	HJL	08/31/23 14:00	D1,H1,N1,Q1,2,Q20,Q26,V9
SM 2310 B	Acidity to pH 8.3	127000	mg/L as CaCO3	10.0			X332307	MWD	08/11/23 09:17	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X332241	MWD	08/10/23 16:53	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X332241	MWD	08/10/23 16:53	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X332241	MWD	08/10/23 16:53	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X332241	MWD	08/10/23 16:53	
SM 2540 C	Total Diss. Solids	233000	mg/L	100			X332278	TJL	08/14/23 14:50	D2,E11
SM 2540 D	Total Susp. Solids	305	mg/L	5.0			X332279	TJL	08/14/23 17:15	
SM 4500 H B	pH @22.2°C	2.0	pH Units				X332241	MWD	08/10/23 16:53	H5

SVL holds the following certifications:

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

Work order Report Page 4 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: **X3H0154**

Reported: 31-Aug-23 16:39

Client Sample ID: **ECOSA Seep-2**SVL Sample ID: **X3H0154-02 (Ground Water)**

Sampled: 08-Aug-23 07:42

Received: 09-Aug-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	X332208	RS	08/09/23 15:22	D2
EPA 300.0	Fluoride	688	mg/L	25.0	4.25	250	X332208	RS	08/09/23 15:22	D2
EPA 300.0	Nitrate as N	12.5	mg/L	12.5	3.25	250	X332208	RS	08/09/23 15:22	D2
EPA 300.0	Nitrate+Nitrite as N	< 25.0	mg/L	25.0	11.0	250	X332208	RS	08/09/23 15:22	D2
EPA 300.0	Nitrite as N	< 12.5	mg/L	12.5	7.75	250	X332208	RS	08/09/23 15:22	D1
EPA 300.0	Sulfate as SO4	162000	mg/L	1500	900	5000	X332208	RS	08/09/23 15:39	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 2,933 meq/L

Anion Sum: 3,410 meq/L

C/A Balance: -7.52 %

Calculated TDS: 164984

TDS/cTDS: 1.41

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

Kathryn Salter
Project Manager

Surface Water Calculations

Table 1: TVS Calculations & Comparison

GV-06		
Sample Date:		8/8/2023
Data for Calculations:		
pH	6.93	std units
Hardness	150	mg/L
Temperature	11.3	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	25.551	6.059
Boron	---	0.750
Chloride	---	250.000
Chlorine	0.019	0.011
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	0.00262	0.00097
Cadmium (T)	0.00500	---
Chromium (III)	---	0.10331
Chromium (III) (Total)	0.05000	---
Hexavalent Chromium	0.01600	0.01100
Copper	0.01969	0.01266
Iron	---	0.30000
Iron (T)	---	1.00000
Lead	0.10013	0.00390
Lead (T)	0.05000	---
Manganese	3.41742	1.88813
Mercury (T)	---	0.00001
Molybdenum (T)	---	0.15000
Nickel	0.65984	0.07329
Nickel (T)	---	0.10000
Selenium	0.01840	0.00460
Silver	0.00408	0.00015
Uranium	3.75567	2.34589
Zinc	0.23135	0.17523

GV-06 Results
Physical
6.93
11.3
Inorganic
<0.03
<0.04
7.6
0.15
<0.005
0.58
0.198
<0.05
<0.05
46.9
0.068
Metals
<0.001
<0.001
0.000545
<0.0001
<0.006
<0.011
<0.005
0.00078
0.608
1.93
<0.0002
0.00035
0.476
<0.000093
<0.008
<0.01
<0.01
<0.001
<0.00008
0.00182
<0.01

Field Sheets

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

Location : Grassy valley Date: 8/8/23
 Technician: P. Barela Quarter: 3
 Static Water Level (DTW): 42.1 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
	12:56		3.25	3740	6.6	started pumping 54p
44.	1:06	1.9	3.96	4150	6.6	
44	1:16	1.9	4.05	4230	6.5	
44	1:26	1.9	4.06	4129	6.7	
43.9	1:36	1.8	3.92	4053	6.7	
44.2	1:41	2.1	3.95	4003	6.6	
44.2	1:46	2.1	3.93	4005	6.6	

Sample Method: Low Flow Rate (gpm): ~ 1.32 Time Start: 12:56 Time End: 1:46

Final Parameters	Stabilization Guidance	Met?	Comments
pH	3.93	0.1	Y /N
Conductivity	4005	3%	Y /N
Temp@	6.6	10%	Y /N
Final H2O level	44.2	feet	

O/G visible: Y/N Turbid? Y/N
 Equipment Decontaminated: Y/N

Decontamination procedure used: Triple rinse w/liquinox before sampling.
use new Filter & tubing. Duplicate collected. Rinse blank collected prior to sampling.

Weather: Sunny, hot

Signature: 

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

Location : Grassy valley

Date: 8/8/23

Technician: P. Barela

Quarter: 3

Static Water Level (DTW): 5.6

Well ID: GVMW-26 A

Well Depth: 70

Is well Dry? NO

If so Dry at: —

feet

	Time	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
	10:20		7.78	308.5	6.7	started Pumping 9.18 L/P
10.8	10:30	5.2	7.86	308.8	6.4	
12.1	10:40	7.1	7.89	306.3	6.7	
13.2	10:45	7.6	7.90	304.7	6.5	
13.6	10:50	8	7.91	302.5	6.4	
13.8	10:55	8.2	7.93	302.8	6.4	
14.0	11:00	8.4	7.91	301.0	6.4	

Sample Method: Low Flow Rate (gpm): ~2.43 Time Start: 10:20 Time End: 11:00

Final Parameters	Stabilization Guidance	Met?	Comments
pH	7.91	0.1	<u>A/N</u>
Conductivity	301.0	3%	<u>A/N</u>
Temp@	6.4	10%	<u>A/N</u>
Final H2O level	14.0	feet	

O/G visible: Y/N

Turbid? Y/N

Equipment Decontaminated: Y/N

Decontamination procedure used: Triple rinse w/liquinox before sampling

use new Filter & tubing

Weather: Clear, Sunny

Signature: [Signature]

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy valleyDate: 8/8/23Technician: P. BarelaQuarter: 3Static Water Level (DTW): 5.7Well ID: GVMW-26BWell Depth: 25Is well Dry? NOIf so Dry at: —

feet

	Time	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
	11:18		7.26	128.6	5.5	Started Pumping 9 4p
7.7	11:28	2	7.12	130.0	5.4	
7.9	11:38	2.2	7.10	130.5	5.3	
8	11:48	2.3	6.80	130.0	5.3	
8	11:53	2.3	6.86	129.8	5.7	
8.1	11:58	2.4	6.62	129.2	5.6	
8.1	12:03	2.4	6.61	130.5	5.5	
8.1	12:08	2.4	6.67	130.0	5.3	

Sample Method: Low Flow Rate (gpm): ~2.37 Time Start: 11:18 Time End: 12:08

Final Parameters	Stabilization Guidance	Met?	Comments
pH	<u>6.67</u>	<u>Y/N</u>	
Conductivity	<u>130.0</u>	<u>Y/N</u>	
Temp@	<u>5.3</u>	<u>Y/N</u>	
Final H2O level	<u>8.1</u>		

O/G visible: Y/NTurbid? Y/NEquipment Decontaminated: Y/NDecontamination procedure used: Triple rinse w/liquinox before sampling.use new tubing & FilterWeather: Sunny, hotSignature: [Signature]

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location: GV-06Date: 8/8/23Technician: P. BarelaQuarter: 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
9:35	6.93	346.4	11.3	

Sample Method: GrabOil/Gas visible ☒ [Y/N]Turbid ☒ [Y/N] - slightClear ☒ [Y/N] - semiWeather: Clear, hotSignature: 

Comments:

use new tubing & Filter some debris in water

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location: seep-1Date: 8/8/23Technician: P. ParelaQuarter: 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
8:00	2.28	20.95	9.9	

Sample Method: GrahnOil/Gas visible ☒ [Y/N]Turbid ☒ [Y/N]Clear ☒ [Y/N]Weather: clear, warmSignature: 

Comments:

use new tubing & Filter.

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location: SECP-2Date: 8/8/23Technician: P. BurelaQuarter: 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
7:42	1.83	35.26	11.3	

Sample
Method:Grab

Oil/Gas visible

[Y/N] (N)

Turbid

[Y/N] (Y)

Clear

[Y/N] (N)Weather: Clear, warm

Signature:



Comments:

use new tubing & filter.

QA/QC



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: **X3H0154**

Reported: 31-Aug-23 16:39

Client Sample ID: **GVMW-125**

Sampled: 08-Aug-23 13:46

Received: 09-Aug-23

Sampled By: PB

SVL Sample ID: **X3H0154-04 (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	631	mg/L	1.00	0.690	10	X332268	JRR	08/15/23 20:33	D2
EPA 200.7	Magnesium	188	mg/L	0.500	0.090		X332268	JRR	08/15/23 19:15	
EPA 200.7	Potassium	5.79	mg/L	0.50	0.18		X332268	JRR	08/15/23 19:15	
SM 2340 B	Hardness (as CaCO3)	2420	mg/L	4.56	2.09		N/A		08/15/23 19:15	

Metals (Dissolved)

EPA 200.7	Aluminum	148	mg/L	0.080	0.054		X332233	JRR	08/16/23 16:24	
EPA 200.7	Barium	0.0091	mg/L	0.0020	0.0019		X332233	JRR	08/16/23 16:24	
EPA 200.7	Beryllium	0.130	mg/L	0.00200	0.00080		X332233	JRR	08/16/23 16:24	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X332233	JRR	08/16/23 16:24	
EPA 200.7	Cadmium	0.380	mg/L	0.0020	0.0016		X332233	JRR	08/16/23 16:24	
EPA 200.7	Calcium	658	mg/L	0.100	0.069		X332233	JRR	08/16/23 16:24	
EPA 200.7	Chromium	0.0169	mg/L	0.0060	0.0020		X332233	JRR	08/16/23 16:24	
EPA 200.7	Cobalt	0.369	mg/L	0.0060	0.0046		X332233	JRR	08/16/23 16:24	
EPA 200.7	Copper	0.326	mg/L	0.0100	0.0027		X332233	JRR	08/16/23 16:24	
EPA 200.7	Iron	0.162	mg/L	0.100	0.056		X332233	JRR	08/16/23 16:24	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X332233	JRR	08/16/23 16:24	
EPA 200.7	Lithium	0.208	mg/L	0.040	0.025		X332233	JRR	08/16/23 16:24	
EPA 200.7	Magnesium	206	mg/L	0.500	0.090		X332233	JRR	08/16/23 16:24	
EPA 200.7	Manganese	55.9	mg/L	0.0080	0.0034		X332233	JRR	08/16/23 16:24	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X332233	JRR	08/16/23 16:24	
EPA 200.7	Nickel	0.661	mg/L	0.0100	0.0048		X332233	JRR	08/16/23 16:24	
EPA 200.7	Potassium	5.01	mg/L	0.50	0.18		X332233	JRR	08/16/23 16:24	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X332233	JRR	08/16/23 17:58	
EPA 200.7	Sodium	44.0	mg/L	0.50	0.12		X332233	JRR	08/16/23 16:24	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X332233	JRR	08/16/23 16:24	
EPA 200.7	Zinc	12.7	mg/L	0.0100	0.0054		X332233	JRR	08/16/23 16:24	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X333098	SMU	08/20/23 13:12	
EPA 200.8	Arsenic	0.0612	mg/L	0.00100	0.00021		X333098	SMU	08/20/23 13:12	
EPA 200.8	Selenium	< 0.0100	mg/L	0.0100	0.00240	10	X333098	SMU	08/20/23 14:21	D1
EPA 200.8	Thallium	< 0.00200	mg/L	0.00200	0.000800	10	X333098	SMU	08/20/23 14:21	D1
EPA 200.8	Uranium	0.446	mg/L	0.00100	0.000520	10	X333098	SMU	08/20/23 14:21	D1

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X333022	NMS	08/14/23 17:38	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X333141	HJL	08/28/23 10:59	H1
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X332256	DD	08/11/23 13:17	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X332336	JRR	08/18/23 11:34	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X335125	HJL	08/31/23 11:14	H1
SM 2310 B	Acidity to pH 8.3	1100	mg/L as CaCO3	10.0			X332307	MWD	08/11/23 09:17	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X332241	MWD	08/10/23 17:04	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X332241	MWD	08/10/23 17:04	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X332241	MWD	08/10/23 17:04	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X332241	MWD	08/10/23 17:04	
SM 2540 C	Total Diss. Solids	4500	mg/L	40			X332278	TJL	08/14/23 14:50	D2
SM 2540 D	Total Susp. Solids	5.0	mg/L	5.0			X332279	TJL	08/14/23 17:15	
SM 4500 H B	pH @21.9°C	3.9	pH Units				X332241	MWD	08/10/23 17:04	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: **X3H0154**

Reported: 31-Aug-23 16:39

Client Sample ID: **GVMW-125**SVL Sample ID: **X3H0154-04 (Ground Water)**

Sampled: 08-Aug-23 13:46

Received: 09-Aug-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	33.4	mg/L	1.00	0.11	5	X332208	RS	08/09/23 16:31	D2
EPA 300.0	Fluoride	12.0	mg/L	0.500	0.085	5	X332208	RS	08/09/23 16:31	D2
EPA 300.0	Nitrate as N	2.56	mg/L	0.250	0.065	5	X332208	RS	08/09/23 16:31	D1
EPA 300.0	Nitrate+Nitrite as N	2.56	mg/L	0.500	0.220	5	X332208	RS	08/09/23 16:31	D1
EPA 300.0	Nitrite as N	< 0.250	mg/L	0.250	0.155	5	X332208	RS	08/09/23 16:31	D1
EPA 300.0	Sulfate as SO4	3390	mg/L	30.0	18.0	100	X332208	RS	08/09/23 16:48	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 71.0 meq/L

Anion Sum: 72.4 meq/L

C/A Balance: -0.94 %

Calculated TDS: 4338

TDS/cTDS: 1.04

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

Kathryn Salter
Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Work Order: **X3H0155**

Reported: 07-Sep-23 08:43

Client Sample ID: **RB-0808**

Sampled: 08-Aug-23 12:20

Received: 09-Aug-23

Sampled By: PB

SVL Sample ID: **X3H0155-02 (Surface 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	0.175	mg/L	0.100	0.069		X332268	JRR	08/15/23 19:22	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X332268	JRR	08/15/23 19:22	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X332268	JRR	08/15/23 19:22	
SM 2340 B	Hardness (as CaCO ₃)	< 2.31	mg/L	2.31	0.543		N/A		08/15/23 19:22	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X332233	JRR	08/16/23 16:31	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X332233	JRR	08/16/23 16:31	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X332233	JRR	08/16/23 16:31	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X332233	JRR	08/16/23 16:31	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X332233	JRR	08/16/23 16:31	
EPA 200.7	Calcium	< 0.100	mg/L	0.100	0.069		X332233	JRR	08/16/23 16:31	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X332233	JRR	08/16/23 16:31	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X332233	JRR	08/16/23 16:31	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X332233	JRR	08/16/23 16:31	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X332233	JRR	08/16/23 16:31	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X332233	JRR	08/16/23 16:31	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X332233	JRR	08/16/23 16:31	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X332233	JRR	08/16/23 16:31	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X332233	JRR	08/16/23 16:31	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X332233	JRR	08/16/23 16:31	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X332233	JRR	08/16/23 16:31	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X332233	JRR	08/16/23 16:31	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X332233	JRR	08/16/23 18:05	
EPA 200.7	Sodium	< 0.50	mg/L	0.50	0.12		X332233	JRR	08/16/23 16:31	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X332233	JRR	08/16/23 16:31	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X332233	JRR	08/16/23 16:31	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X333098	SMU	08/20/23 13:23	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X333098	SMU	08/20/23 13:23	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X333098	SMU	08/20/23 13:23	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X333098	SMU	08/20/23 13:23	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X333098	SMU	08/20/23 13:23	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X333022	NMS	08/14/23 17:42	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X333141	HJL	08/28/23 11:03	H1
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X332031	JRR	08/11/23 12:35	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X332336	JRR	08/18/23 11:38	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X335125	HJL	08/31/23 11:17	H1
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO ₃	10.0			X332307	MWD	08/11/23 09:17	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO ₃	1.0			X332241	MWD	08/10/23 17:25	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO ₃	1.0			X332241	MWD	08/10/23 17:25	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X332241	MWD	08/10/23 17:25	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO ₃	1.0			X332241	MWD	08/10/23 17:25	
SM 2540 C	Total Diss. Solids	< 10	mg/L	10			X332278	TJL	08/14/23 14:50	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X332279	TJL	08/14/23 17:15	
SM 4500 H B	pH @22.1°C	6.0	pH Units				X332241	MWD	08/10/23 17:25	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: **X3H0155**

Reported: 07-Sep-23 08:43

Client Sample ID: **RB-0808**

Sampled: 08-Aug-23 12:20

SVL Sample ID: **X3H0155-02 (Surface Water)**

Received: 09-Aug-23

Sample Report Page 2 of 2

Sampled By: PB

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		X332208	RS	08/09/23 18:13	
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.017		X332208	RS	08/09/23 18:13	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X332208	RS	08/09/23 18:13	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X332208	RS	08/09/23 18:13	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X332208	RS	08/09/23 18:13	
EPA 300.0	Sulfate as SO4	0.37	mg/L	0.30	0.18		X332208	RS	08/09/23 18:13	

Cation/Anion Balance and TDS Ratios

Cation Sum: 0.03 meq/L

Anion Sum: 0.03 meq/L

C/A Balance: 1.86 %

Calculated TDS: 0

TDS/cTDS: 0.00

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

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