



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

March 27, 2025

RE: Monthly Grassy Valley Report February 2025 Submission, March 27, 2025

Dear Elliott,

Cripple Creek & Victor Gold Mining Company (CC&V) hereby provides the Grassy Valley Monthly Monitoring Report, as requested by the Division of Reclamation Mining and Safety (Division), 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 to the Division on September 30, 2022. The monthly monitoring has been further expanded in response to the *Additional Information Required and Issuance of Corrective Action, Grassy Valley Groundwater and Surface Water Monitoring Report September 2023*, dated November 22, 2023. Data within this report have been collected as outlined in the Grassy Valley Monthly Monitoring Plan, approved as TR-132 by the Division on March 10, 2023.

METHODOLOGY

In February 2025, CC&V monitored all accessible and applicable groundwater and surface water locations and collected all possible samples as part of the Grassy Valley monitoring program.

Monitoring locations are shown in the Location Maps (Figures), and a summary of each groundwater and surface water locations' status is provided in Table 1.

During the February monitoring period, CC&V was unable to collect water samples from the following monitoring locations due to the reasons listed below:

- GVMW-15C, GVMW-29, GVMW-30, GVMW-31, OSABH12, OSABH14, and OSABH-18 were dry;
- GVMW-24A had sediment-laden water that caused the pump to overheat and malfunction;
- GVMW-24B, GVMW-32, and OSABH-16 had insufficient water to sample;
- GVMW-35A was not sampled due to the tubing being frozen;
- EMP-16, EMP-17, EMP-17A, EMP-17C, and EMP-020 were frozen/snow covered; and
- GV-06, GV-4.5, GV-05, GV-02, and GV-03 were frozen/dry with no flowing water.

Groundwater Level Measurements

Prior to the collection of groundwater samples, depth to groundwater was measured using a Geotech™ water level indicator. The water level indicator was decontaminated with Alconox™ soap and rinsed with deionized water prior to each measurement to prevent cross contamination.

Groundwater Sampling

CC&V utilized both dedicated and deployable pumps to purge water and collect groundwater samples. Samples were collected using either the low-flow, volumetric, or purge and return sampling methods described in the *Quality Assurance Project Plan (QAPP)* dated February 10, 2025.

Groundwater samples were collected by filling both preserved and unpreserved laboratory-supplied sample containers with the appropriate amount of water and then capping to prevent sample degradation. Samples were labeled with date and time of sample collection, sample location, sample identification (ID#), initials of sample collector, whether the sample was filtered, and type of preservative used. Samples were sealed, packed on ice, and submitted to SVL Analytical Inc. in Kellogg, Idaho for analysis of parameters listed in Table 3.2 – Groundwater Monitoring Parameters of the QAPP. Proper chain-of-custody (COC) procedures were followed as described in Section 10.10 of the QAPP.

Surface Water Sampling

CC&V collected grab samples from the mid-depth of the middle of the stream, as applicable, from surface water monitoring locations in accordance with the QAPP. The general appearance of water at each monitoring location (turbidity, color, etc.) was recorded. If a monitoring location had no visible flow, it was recorded as dry or frozen and not sampled.

QA/QC Samples

CC&V collected three quality assurance/quality control (QA/QC) samples in February 2025 (included in Attachment 1). Two duplicate samples and one rinse blank sample were collected per section 8.0 of the approved QAPP.

RESULTS

Analytical results are compared to applicable standards in Table 2 for groundwater samples. Complete laboratory analytical reports from the February 2025 sampling event are included in Attachment 1 and field-collected data is presented on the sampling logs in Attachment 2.

DISCUSSION**Groundwater**

Observed groundwater quality data indicate a recurring trend in which peak constituent concentrations occur around October, followed by a decline through the following fall. Over the past two years, a rebound in constituent concentrations has been observed in December after a decline in November. This rebound is more pronounced in 2024 compared to 2023, suggesting a potential deviation from established seasonal trends. Constituent patterns appear to correlate with seasonal precipitation fluctuations, with the recent trend likely influenced by November snowfall, followed by a warming event that increased throughflow into the groundwater system. As expected, given minimal precipitation in December and persistently cold temperatures in January, overall constituent concentrations decreased in January 2025 relative to December 2024. February 2025 data overall indicate similar constituent concentrations when compared to January 2025 data.

Trend graphs for various constituents at the GVMW-25 monitoring location are provided in Attachment 3. Overall, results indicate similar concentrations compared to January 2025. However, concentrations of iron decreased relative to January 2025 and arsenic concentration slightly increased. All other constituents remained consistent with the previous month's data. Additionally, ammonia, antimony, boron, cyanide, lead, mercury, molybdenum, silver, thallium, and vanadium were not detected in the February 2025 samples.

Water quality at the GVMW-15B and OSABH-17 monitoring locations is consistent with previously recorded results. Shallow groundwater at these locations appears to be impacted by seepage and constituent concentrations fluctuate seasonally similar to GVMW-25.

Other notable results include:

- Elevated fluoride concentrations at the GVMW-8A, GVMW-8B, GVMW-22A, GVMW-26A locations;

- Elevated cadmium, manganese, sulfate, and uranium concentrations at the GVMW-10 location; and
- Elevated iron concentrations in GVMW-15A;

The results observed in these monitoring wells are consistent with previous observations.

Due to suspected casing issues, the low-flow sampling procedure could not be followed precisely for GVMW-4A and GVMW-15A, but significant effort was made to approximate the procedure. CC&V elected to collect samples from these well despite the deviation from the procedure to provide more data on the water quality at these historic well locations.

Analytical results from the point-of-compliance wells (GVMW-26A and GVMW-26B) comply with all applicable standards, except for slightly elevated fluoride concentrations at GVMW-26A.

Newly Constructed Monitoring Wells

During the February 2025 monitoring event, samples were collected from the newly installed monitoring wells in Grassy Valley. Table 2 compares water quality data for these wells against existing NPLs and TVS. Baseline conditions have not yet been established.

Seepage appears to be affecting water quality at GVMW-27, GVMW-28, GVMW-33, GVMW-34, and GVMW-36. Other notable results include:

- Elevated nitrate and sulfate at the GVMW-35B location; and
- Elevated pH at the GVMW-37A location.

Surface water

Flowing water was not observed at any of the surface water monitoring locations during the February 2025 sampling event and therefore, no samples were collected.

Stormwater Detention Ponds

All EMPs were frozen and/or dry during the February 2025 monitoring period and therefore no samples were collected.

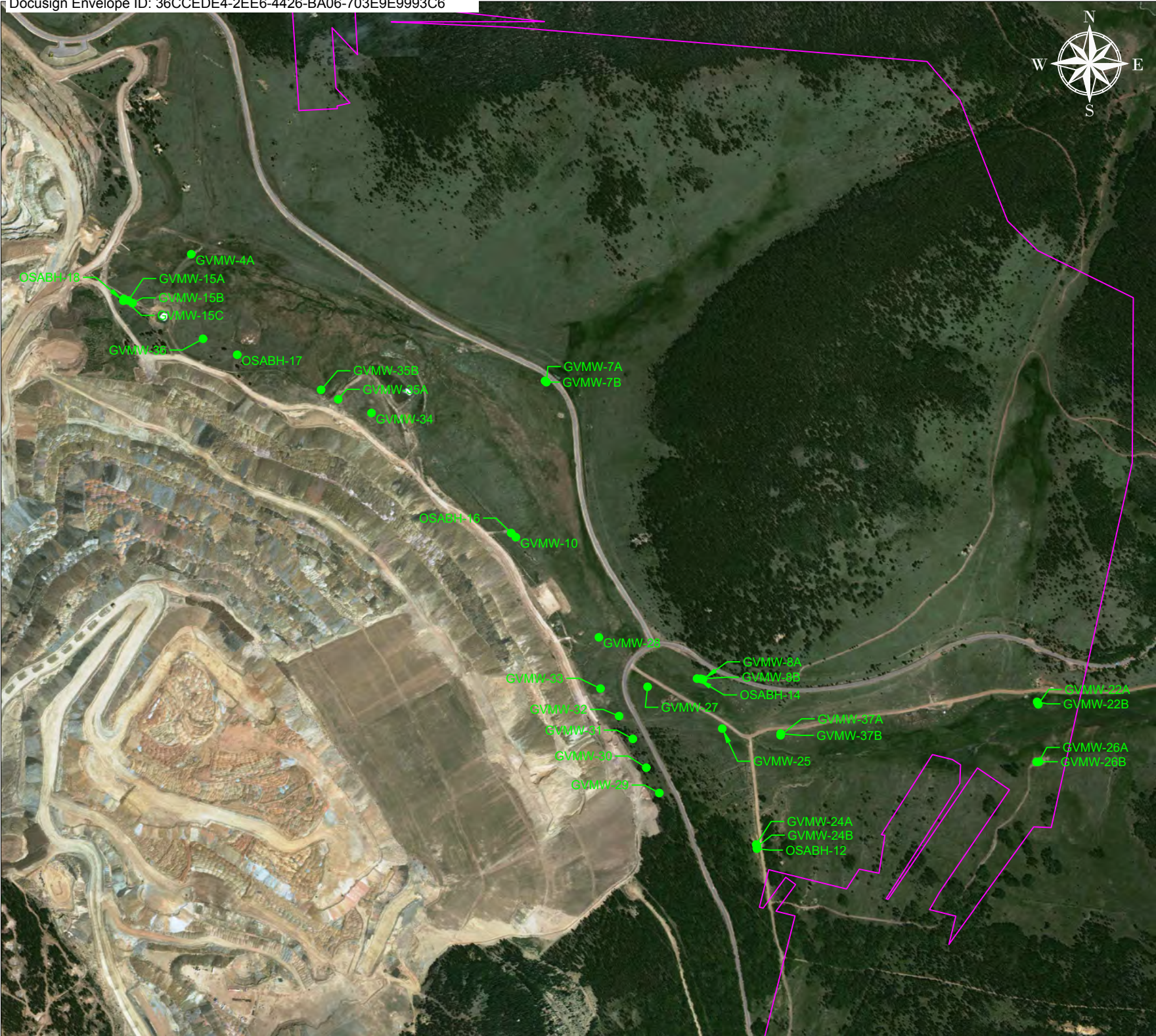
If you have questions, please contact Josh Adams at (719) 323-0438 or Joshua.Adams@ccvmining.com, or myself at (719) 851-4048 or Katie.Blake@ccvmining.com

Sincerely,

p.p.  FD42D9E12B1147D...

Katie Blake
Sustainability & External Relations Manager
Cripple Creek & Victor Gold Mining Co

Figures



LEGEND		
●	MONITORING WELL	
—	PERMIT BOUNDARY	

General Notes		

No.	Revision/Issue	Date

Firm Name and Address	
 CRIPPLE CREEK & VICTOR	

Drawing Name	
GRASSY VALLEY MONITORING WELLS	

Project	Sheet
GRASSY VALLEY OMP	G1

Date
10/8/2024

Scale
500 1000 Feet



LEGEND

- SURFACE WATER LOCATION
 PERMIT BOUNDARY

General Notes

No.	Revision/Issue	Date

Firm Name and Address



Drawing Name

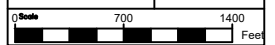
GRASSY VALLEY
SURFACE WATER MONITORING

Project
GRASSY VALLEY OMP

Date	10/8/2024
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Sheet

G2





LEGEND		
	EMP	
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General Notes		

No.	Revision/Issue	Date

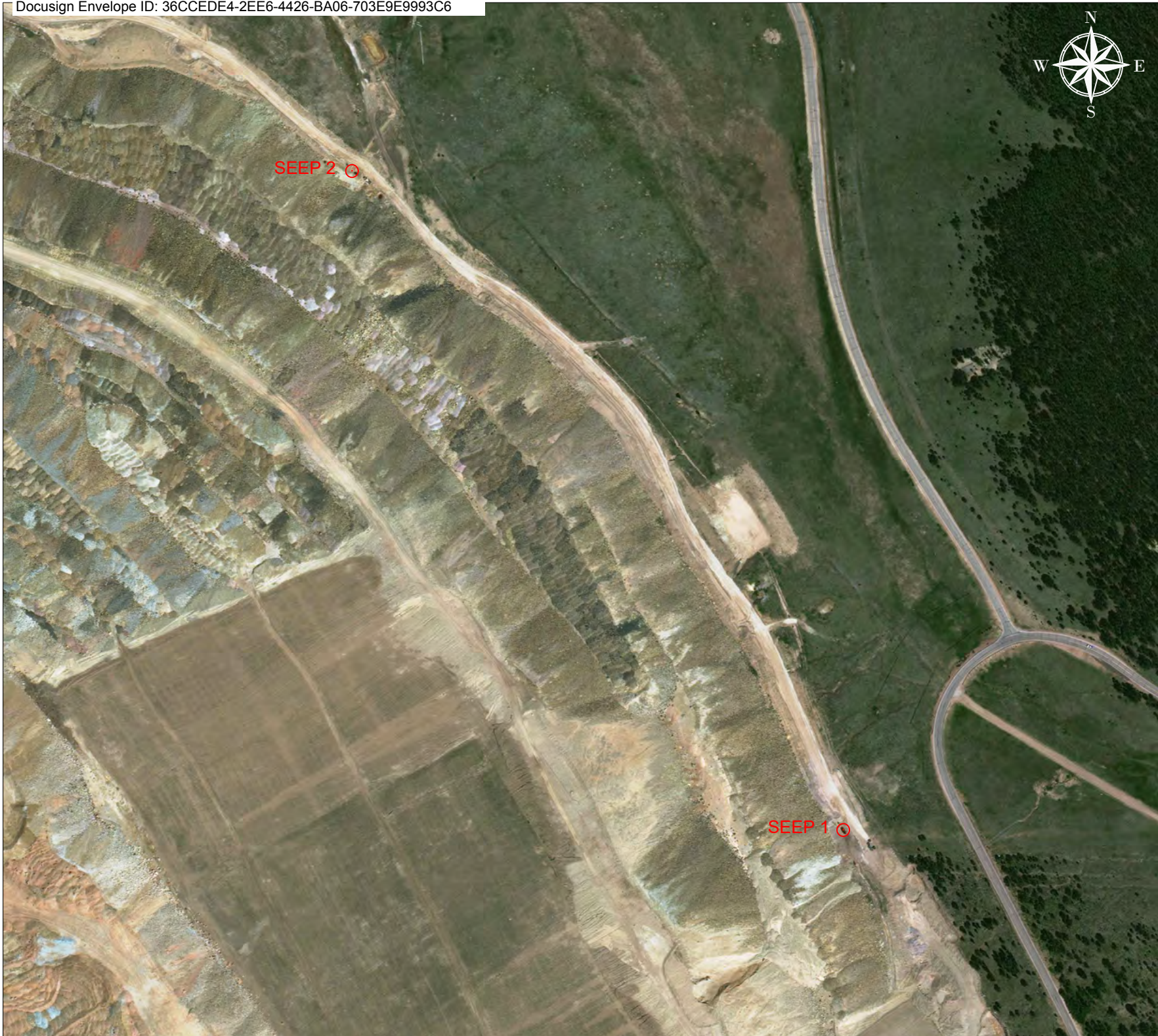
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GRASSY VALLEY EMP MONITORING	

Project	Sheet
GRASSY VALLEY OAPP	G3

Date
10/8/2024

Scale	Feet
	0 300 600



LEGEND	
	SEEP LOCATION
	PERMIT BOUNDARY

General Notes		

No.	Revision/Issue	Date

Firm Name and Address

Newmont[™]
CRIPPLE CREEK & VICTOR

Drawing Name

GRASSY VALLEY
ECOSA SEEP MONITORING

Project GRASSY VALLEY GAPP	Sheet G4
Date 10/6/2024	

Scale: 0 200 400 Feet

Tables

Table 1
Grassy Valley Monthly Monitoring Locations
Cripple Creek and Victor Gold Mining Company

Monitoring Location	Date Monitored	Status
GVMW-4A	2/17/2025	Sampled
GVMW-7A	2/13/2025	Sampled
GVMW-7B	2/18/2025	Sampled
GVMW-8A	2/13/2025	Sampled
GVMW-8B	2/13/2025	Sampled
GVMW-10	2/26/2025	Sampled
GVMW-15A	2/17/2025	Sampled
GVMW-15B	2/17/2025	Sampled
GVMW-15C	2//7/2025	Dry at 419' BTOC
GVMW-22A	2/11/2025	Sampled
GVMW-22B	2/11/2025	Sampled
GVMW-24A	2/11/2025	Not sampled due to sediment laden water causing the pump to overheat; unable to pump well
GVMW-24B	2/11/2025	NS-IW
GVMW-25	2/20/2025	Sampled
GMVW-26A	2/11/2025	Sampled
GVMW-26B	2/11/2025	Sampled
GVMW-27	2/20/2025	Sampled
GVMW-28	2/25/2025	Sampled
GVMW-29	2/18/2025	Dry at 38.38' BTOC
GVMW-30	2/18/2025	Dray at 51.29' BTOC
GVMW-31	2/18/2025	Dry at 61.82' BTOC
GVMW-32	2/18/2025	NS-IW
GVMW-33	2/19/2025	Sampled
GVMW-34	2/19/2025	Sampled
GVMW-35A	2/18/2025	Not sampled, well/tubing frozen
GVMW-35B	2/19/2025	Sampled
GVMW-36	2/19/2025	Sampled
GVMW-37A	2/18/2025	Sampled
GVMW-37B	2/18/2025	Sampled
OSABH-12	2/13/2025	Dry at 39' bgs
OSABH-14	2/13/2025	Dry at 29' bgs
OSABH-16	2/26/2025	NS-IW
OSABH-17	2/25/2026	Sampled
OSABH-18	2/18/2025	Dry at 52' BTOC
Ecosa Seep-1	2/18/2025	Not sampled; location frozen
Ecosa Seep-2	2/18/2025	Not sampled; location frozen
GV-02	2/18/2025	Not sampled; location frozen
GV-03	2/18/2025	Not sampled; location frozen
GV-06	2/18/2025	Not sampled; location frozen
GV-4.5	2/18/2025	Not sampled; location frozen
GV-05	2/18/2025	Not sampled; location frozen
EMP-016	2/18/2025	Not sampled; location frozen/snow covered
EMP-017	2/18/2025	Not sampled; location frozen/snow covered
EMP-017A	2/18/2025	Not sampled; location frozen/snow covered
EMP-17B	2/18/2025	Not sampled; location frozen/snow covered
EMP-17C	2/18/2025	Not sampled; location frozen/snow covered
EMP-020	2/18/2025	Not sampled; location frozen/snow covered

Notes:
' - feet
BTOC - below top of casing
NS-IW - Not sampled due to insufficient water

Table 2
Grassy Valley Monthly Groundwater Analytical Results - February 2025
Cripple Creek and Victor Gold Mining Company

ANALYTE	Reg 41 TVS	Site Wide NPL	UNIT	Well I.D.	GVMW-4A	GVMW-7A	GVMW-7B	GVMW-8A*	GVMW-8B	GVMW-10	GVMW-15A	GVMW-15B	GVMW-22A	GVMW-22B	GVMW-25	GMVW-26A	GVMW-26B
				Sample Date	2/17/2025	2/13/2025	2/18/2025	2/13/2025	2/13/2025	2/26/2025	2/17/2025	2/17/2025	2/11/2025	2/11/2025	2/20/2025	2/11/2025	2/11/2025
Aluminum - Dissolved	5	7	mg/L		<0.080	<0.080	<0.080	<0.080	<0.080	1.13	<0.080	0.278	<0.080	<0.080	417	<0.080	<0.080
Ammonia	NA	NA	mg/L		<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	0.058	0.031	<0.030	<0.030	<0.030	<0.030	<0.030
Antimony - Dissolved	0.006	NA	mg/L		<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100
Arsenic - Dissolved	0.01	NA	mg/L		<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.143	<0.00100	<0.00100
Barium - Dissolved	2	NA	mg/L		0.17	0.198	0.0319	<0.0020	0.0065	0.0161	0.0519	0.0162	0.107	0.0558	0.0163	0.2	0.118
Beryllium - Dissolved	0.004	NA	mg/L		<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.0261	<0.00200	<0.00200	0.324	<0.00200	<0.00200
Boron - Total	0.75	NA	mg/L		<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400
Cadmium - Dissolved	0.005	0.005	mg/L		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0116	<0.0020	<0.0020	<0.0020	<0.0020	0.879	<0.0020	<0.0020
Chloride - Total	250	NA	mg/L		4.92	17.6	12.5	59	35.5	5.38	1.57	1.39	4.3	5.9	20.3	1.49	1.98
Chromium - Dissolved	0.1	NA	mg/L		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0297	<0.0060	<0.0060
Cobalt - Dissolved	0.05	NA	mg/L		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0262	0.028	0.0563	<0.0060	<0.0060	0.991	<0.0060	<0.0060
Copper - Dissolved	0.2	0.2	mg/L		<0.0100	<0.0100	<0.0100	<0.0100	0.0214	0.0198	<0.0100	<0.0100	<0.0100	<0.0100	1.47	<0.0100	<0.0100
Cyanide - Free	0.2	NA	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0056	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cyanide - Total	NA	NA	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0164	<0.0050	<0.0050
Cyanide - WAD	NA	0.2	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0250	<0.0050	<0.0050
Fluoride - Total F	2	2	mg/L		0.149	0.868	0.35	2.05	2.29	1.2	0.318	0.328	2.33	0.426	18.4	2.11	0.278
Iron - Dissolved	0.3	14	mg/L		7.88	1.27	<0.100	<0.100	<0.100	<0.100	30.6	22.4	<0.100	<0.100	1.69	<0.100	<0.100
Lead - Dissolved	0.05	NA	mg/L		<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	0.0407	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075
Lithium - Dissolved	2.5	NA	mg/L		<0.040	<0.040	<0.040	<0.040	<0.040	0.104	<0.040	<0.040	<0.040	<0.040	0.296	<0.040	<0.040
Manganese - Dissolved	0.05	3	mg/L		1.93	0.236	<0.0080	<0.0080	<0.0080	3.73	1.91	1.31	0.0086	<0.0080	128	0.0181	<0.0080
Mercury - Dissolved	0.002	0.002	mg/L		<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
Molybdenum - Dissolved	0.21	NA	mg/L		<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	0.0373	<0.0080	<0.0080	0.0083	<0.0080	<0.0080	<0.0080	<0.0080
Nickel - Dissolved	0.1	NA	mg/L		<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.0344	0.058	0.103	<0.0100	<0.0100	1.56	<0.0100	<0.0100
Nitrate as Nitrogen	10	10	mg/L		<0.050	<0.050	0.822	1.07	2.7	0.111	<0.050	<0.050	0.059	0.087	3.13	<0.050	0.708
Nitrite + Nitrate as Nitrogen	10	11	mg/L		<0.100	<0.100	0.822	1.07	2.7	0.128	<0.100	<0.100	<0.100	<0.100	3.13	<0.100	0.708
Nitrite as Nitrogen	1	1	mg/L		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.250	<0.050	<0.050
pH Field	6.5-8.5	6.0-8.5	pH units		6.44	7.32	6.52	6.83	6.75	6.75	6.3	4.96	7.7	6.59	4.11	7.85	6.53
Selenium - Dissolved	0.02	0.024	mg/L		<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.0129	<0.00100	<0.00100
Silver - Dissolved	0.05	NA	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium - Dissolved	NA	NA	mg/L		9.5	10.4	11.2	23.8	25.1	63.2	14.4	13.2	36	25.7	43.9	31.4	10.2
Sulfate - Total	250	NA	mg/L		62.6	25.2	87.4	64.4	99.5	1,370	194	271	35.3	117	4,700	17.4	22.2
Thallium - Dissolved	0.002	NA	mg/L		<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.00200	<0.000200	<0.000200
Total Dissolved Solids	NA	NA	mg/L		182	240	219	264	278	2,120	307	417	210	251	6,410	182	84
Uranium - Dissolved	0.03	NA	mg/L		0.00017	0.00498	0.000368	0.00464	0.0025	0.0654	<0.000100	0.00267	0.00354	0.00134	1.33	0.00344	0.000107
Vanadium - Dissolved	0.1	NA	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zinc - Dissolved	2	2	mg/L		0.0138	<0.0100	<0.0100	<0.0100	<0.0100	0.615	0.296	1.05	<0.0100	<0.0100	31.9	<0.0100	<0.0100

Notes:
Applicable Standard vs. Non-applicable standard
* NPL of 1.0 mg/L for manganese and 6.5-8.5 for pH applies to GVMW-8A
Result below laboratory detection limit
BOLD - greater than applicable standard
< - less than
mg/L - milligrams per liter
NPL - Numeric Protection Limit
NS- Not sampled
TVS - table value standard

Table 2
Grassy Valley Monthly Groundwater Analytical Results -February 2025
Cripple Creek and Victor Gold Mining Company

ANALYTE	Reg 41 TVS	Site Wide NPL	UNIT	Well I.D.	GVMW-27	GVMW-28	GVMW-33	GVMW-34	GVMW-35B	GVMW-36	GVMW-37A	GVMW-37B	OSABH-17
				Sample Date	2/20/2025	2/25/2025	2/19/2025	2/19/2025	2/19/2025	2/19/2025	2/18/2025	2/18/2025	2/25/2025
Aluminum - Dissolved	5	7	mg/L		293	1,530	612	15.8	0.086	968	<0.080	<0.080	4,890
Ammonia	NA	NA	mg/L		<0.030	<0.030	0.218	<0.030	<0.030	0.056	<0.030	<0.030	<0.150
Antimony - Dissolved	0.006	NA	mg/L		<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.00152	<0.00100	<0.0500
Arsenic - Dissolved	0.01	NA	mg/L		0.0698	0.408	0.27	<0.0100	<0.0100	0.131	0.00198	<0.00100	0.797
Barium - Dissolved	2	NA	mg/L		0.0156	0.0106	0.02	0.0341	0.0172	0.0158	0.0815	0.077	<0.0200
Beryllium - Dissolved	0.004	NA	mg/L		0.222	0.83	0.646	0.0158	<0.00200	0.232	<0.00200	<0.00200	0.79
Boron - Total	0.75	NA	mg/L		<0.0400	<0.200	<0.0400	0.0495	<0.0400	0.0431	<0.0400	<0.0400	<0.400
Cadmium - Dissolved	0.005	0.005	mg/L		0.628	2.92	1.33	0.0708	<0.0020	2.05	<0.0020	<0.0020	10.4
Chloride - Total	250	NA	mg/L		20.1	5.03	5.41	25.8	82.5	11.5	3.85	4.07	16.4
Chromium - Dissolved	0.1	NA	mg/L		0.0308	0.273	0.0379	<0.0060	<0.0060	0.232	<0.0060	<0.0060	1.21
Cobalt - Dissolved	0.05	NA	mg/L		0.552	2.81	0.937	0.059	<0.0060	4.85	<0.0060	<0.0060	22.5
Copper - Dissolved	0.2	0.2	mg/L		0.706	7.4	1.64	<0.0100	<0.0100	4.42	<0.0100	<0.0100	21.6
Cyanide - Free	0.2	NA	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0500
Cyanide - Total	NA	NA	mg/L		0.0179	<0.0050	0.0113	<0.0050	<0.0050	0.0058	<0.0050	<0.0050	0.0525
Cyanide - WAD	NA	0.2	mg/L		<0.0050	<0.0500	<0.0250	<0.0250	<0.0050	<0.0250	<0.0050	<0.0050	<0.0500
Fluoride - Total F	2	2	mg/L		7.3	173	97.8	30.5	<0.100	113	1.42	1.96	156
Iron - Dissolved	0.3	14	mg/L		1.7	134	7.93	<0.100	<0.100	22	<0.100	<0.100	353
Lead - Dissolved	0.05	NA	mg/L		<0.0075	<0.0375	0.0382	<0.0075	<0.0075	0.122	<0.0075	<0.0075	<0.0750
Lithium - Dissolved	2.5	NA	mg/L		0.199	0.645	0.357	0.338	0.087	0.618	<0.040	<0.040	2.54
Manganese - Dissolved	0.05	3	mg/L		99.4	413	220	80.4	1.04	233	0.097	0.0147	1,660
Mercury - Dissolved	0.002	0.002	mg/L		<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
Molybdenum - Dissolved	0.21	NA	mg/L		<0.0080	<0.0400	<0.0080	<0.0080	0.0106	<0.0080	0.0214	0.01	<0.0800
Nickel - Dissolved	0.1	NA	mg/L		1.01	4.18	1.97	0.385	<0.0100	4.24	<0.0100	<0.0100	17.1
Nitrate as Nitrogen	10	10	mg/L		2.09	5.66	5.71	10.4	10.8	2.69	<0.050	1.17	4.21
Nitrite + Nitrate as Nitrogen	10	11	mg/L		2.09	5.72	5.71	10.4	10.8	2.69	<0.100	1.19	<5.00
Nitrite as Nitrogen	1	1	mg/L		<0.250	<0.500	<0.500	<0.050	<0.050	<0.500	<0.050	<0.050	<2.50
pH Field	6.5-8.5	6.0-8.5	pH units		4.51	3.07	3.14	5.4	6.4	3.16	8.88	7.68	2.87
Selenium - Dissolved	0.02	0.024	mg/L		<0.0100	0.041	0.0361	0.0133	<0.0100	0.0197	<0.00100	<0.00100	<0.0500
Silver - Dissolved	0.05	NA	mg/L		<0.0050	<0.0250	<0.0050	<0.0050	<0.0050	0.0095	<0.0050	<0.0050	<0.0500
Sodium - Dissolved	NA	NA	mg/L		48	35.9	96	48.1	17.1	61.8	36.6	29.9	10.6
Sulfate - Total	250	NA	mg/L		3,720	13,600	6,310	2,950	1,270	9,850	198	113	38,900
Thallium - Dissolved	0.002	NA	mg/L		<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.000200	<0.000200	<0.0100
Total Dissolved Solids	NA	NA	mg/L		4,940	16,900	8,690	4,340	2,060	13,100	369	308	53,300
Uranium - Dissolved	0.03	NA	mg/L		0.803	5.55	2.11	0.0322	0.0058	4.51	0.00314	0.00259	18.9
Vanadium - Dissolved	0.1	NA	mg/L		<0.0050	<0.0250	0.0116	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0500
Zinc - Dissolved	2	2	mg/L		24.5	122	32.7	8.91	0.0422	93.7	<0.0100	<0.0100	381

Notes:

- Applicable Standard vs. Non-applicable standard
- * NPL of 1.0 mg/L for manganese and 6.5-8.5 for pH applies to GVMW-8A
- Result below laboratory detection limit
- BOLD - greater than applicable standard
- < - less than
- mg/L - milligrams per liter
- NPL - Numeric Protection Limit
- NS- Not sampled
- TVS - table value standard

Attachment 1

Laboratory 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

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0126**

Reported: 25-Feb-25 16:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-22A	X5B0126-01	Ground Water	11-Feb-25 12:47	JC	12-Feb-2025	
GVMW-22B	X5B0126-02	Ground Water	11-Feb-25 12:10	JC	12-Feb-2025	
GVMW-26A	X5B0126-03	Ground Water	11-Feb-25 09:22	JC	12-Feb-2025	
GVMW-26B	X5B0126-04	Ground Water	11-Feb-25 09:59	JC	12-Feb-2025	

Sample preparation is defined by the client as per their Data Quality Objectives.

This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.

Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.

The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of SVL Analytical, Inc.

Case Narrative: X5B0126

The state of origin only accredits for drinking water analyses.

Samples treated with CdCO₃ before CN analysis for sulfide interference at client request.



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

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5B0126**

Reported: 25-Feb-25 16:15

Client Sample ID: **GVMW-22A**

Sampled: 11-Feb-25 12:47

Received: 12-Feb-25

Sampled By: JC

SVL Sample ID: **X5B0126-01 (Ground Water)**

Sample Report Page 1 of 2

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

EPA 200.7	Calcium	26.7	mg/L	0.100	0.069		X508045	SJN	02/19/25 11:09	
EPA 200.7	Magnesium	11.0	mg/L	0.500	0.090		X508045	SJN	02/19/25 11:09	
EPA 200.7	Potassium	1.31	mg/L	0.50	0.18		X508045	SJN	02/19/25 11:09	
SM 2340 B	Hardness (as CaCO3)	118	mg/L	2.31	0.543		N/A		02/19/25 08:28	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X508065	NMS	02/19/25 08:28	
EPA 200.7	Barium	0.107	mg/L	0.0020	0.0019		X508065	NMS	02/19/25 08:28	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X508065	NMS	02/19/25 08:28	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X508065	NMS	02/19/25 08:28	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X508065	NMS	02/19/25 08:28	
EPA 200.7	Calcium	29.0	mg/L	0.100	0.069		X508065	NMS	02/19/25 08:28	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X508065	NMS	02/19/25 08:28	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X508065	NMS	02/19/25 08:28	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X508065	NMS	02/19/25 08:28	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X508065	NMS	02/19/25 08:28	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X508065	NMS	02/19/25 08:28	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X508065	NMS	02/19/25 08:28	
EPA 200.7	Magnesium	11.4	mg/L	0.500	0.090		X508065	NMS	02/19/25 08:28	
EPA 200.7	Manganese	0.0086	mg/L	0.0080	0.0034		X508065	NMS	02/19/25 08:28	
EPA 200.7	Molybdenum	0.0083	mg/L	0.0080	0.0034		X508065	NMS	02/19/25 08:28	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X508065	NMS	02/19/25 08:28	
EPA 200.7	Potassium	1.31	mg/L	0.50	0.18		X508065	NMS	02/19/25 08:28	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X508065	NMS	02/19/25 08:28	
EPA 200.7	Sodium	36.0	mg/L	0.50	0.12		X508065	NMS	02/19/25 08:28	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X508065	NMS	02/19/25 08:28	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X508065	NMS	02/19/25 08:28	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X507135	JRR	02/20/25 13:27	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X507135	JRR	02/20/25 13:27	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X507135	JRR	02/20/25 13:27	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X507135	JRR	02/20/25 13:27	
EPA 200.8	Uranium	0.00354	mg/L	0.000100	0.000052		X507135	JRR	02/20/25 13:27	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X508025	MAC	02/24/25 14:51	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X508071	DD	02/19/25 13:58	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X508100	DD	02/20/25 14:13	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X508004	DD	02/18/25 13:20	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X509003	JPM	02/24/25 15:03	
SM 2310 B	Acidity to pH 8.3	-162	mg/L as CaCO3	10.0			X508007	MWD	02/17/25 10:17	
SM 2320 B	Total Alkalinity	165	mg/L as CaCO3	1.0			X507168	MWD	02/14/25 16:36	
SM 2320 B	Bicarbonate	165	mg/L as CaCO3	1.0			X507168	MWD	02/14/25 16:36	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X507168	MWD	02/14/25 16:36	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X507168	MWD	02/14/25 16:36	
SM 2540 C	Total Diss. Solids	210	mg/L	10			X507140	TJL	02/14/25 13:30	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X507141	TJL	02/14/25 14:20	
SM 4500 H B	pH @18.7°C	7.9	pH Units				X507168	MWD	02/14/25 16:36	H5

SVL holds the following certifications:

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

Work order Report Page 2 of 16



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

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0126**

Reported: 25-Feb-25 16:15

Client Sample ID: **GVMW-22A**SVL Sample ID: **X5B0126-01 (Ground Water)**

Sampled: 11-Feb-25 12:47

Received: 12-Feb-25

Sampled By: JC

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	4.30	mg/L	0.20	0.02		X507094	JPM	02/12/25 17:18	
EPA 300.0	Fluoride	2.33	mg/L	0.100	0.017		X507094	JPM	02/12/25 17:18	
EPA 300.0	Nitrate as N	0.059	mg/L	0.050	0.013		X507094	JPM	02/12/25 17:18	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X507094	JPM	02/12/25 17:18	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X507094	JPM	02/12/25 17:18	
EPA 300.0	Sulfate as SO4	35.3	mg/L	0.30	0.18		X507094	JPM	02/12/25 17:18	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.85 meq/L

Anion Sum: 4.28 meq/L

C/A Balance: -5.25 %

Calculated TDS: 217

TDS/cTDS: 0.97

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

Kristi A. Groth

Kristi A. Groth

Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0126**

Reported: 25-Feb-25 16:15

Client Sample ID: **GVMW-22B**

Sampled: 11-Feb-25 12:10

SVL Sample ID: **X5B0126-02 (Ground Water)**

Received: 12-Feb-25

Sampled By: JC

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	35.6	mg/L	0.100	0.069		X508045	SJN	02/19/25 11:13	
EPA 200.7	Magnesium	10.3	mg/L	0.500	0.090		X508045	SJN	02/19/25 11:13	
EPA 200.7	Potassium	1.87	mg/L	0.50	0.18		X508045	SJN	02/19/25 11:13	
SM 2340 B	Hardness (as CaCO3)	132	mg/L	2.31	0.543		N/A		02/19/25 11:13	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X508065	NMS	02/19/25 08:32	
EPA 200.7	Barium	0.0558	mg/L	0.0020	0.0019		X508065	NMS	02/19/25 08:32	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X508065	NMS	02/19/25 08:32	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X508065	NMS	02/19/25 08:32	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X508065	NMS	02/19/25 08:32	
EPA 200.7	Calcium	38.2	mg/L	0.100	0.069		X508065	NMS	02/19/25 08:32	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X508065	NMS	02/19/25 08:32	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X508065	NMS	02/19/25 08:32	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X508065	NMS	02/19/25 08:32	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X508065	NMS	02/19/25 08:32	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X508065	NMS	02/19/25 08:32	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X508065	NMS	02/19/25 08:32	
EPA 200.7	Magnesium	10.5	mg/L	0.500	0.090		X508065	NMS	02/19/25 08:32	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X508065	NMS	02/19/25 08:32	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X508065	NMS	02/19/25 08:32	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X508065	NMS	02/19/25 08:32	
EPA 200.7	Potassium	1.79	mg/L	0.50	0.18		X508065	NMS	02/19/25 08:32	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X508065	NMS	02/19/25 08:32	
EPA 200.7	Sodium	25.7	mg/L	0.50	0.12		X508065	NMS	02/19/25 08:32	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X508065	NMS	02/19/25 08:32	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X508065	NMS	02/19/25 08:32	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X507135	JRR	02/20/25 13:33	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X507135	JRR	02/20/25 13:33	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X507135	JRR	02/20/25 13:33	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X507135	JRR	02/20/25 13:33	
EPA 200.8	Uranium	0.00134	mg/L	0.000100	0.000052		X507135	JRR	02/20/25 13:33	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X508025	MAC	02/24/25 14:53	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X508071	DD	02/19/25 14:00	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X508100	DD	02/20/25 14:15	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X508004	DD	02/18/25 13:22	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X509003	JPM	02/24/25 15:04	
SM 2310 B	Acidity to pH 8.3	-88.2	mg/L as CaCO3	10.0			X508007	MWD	02/17/25 10:17	
SM 2320 B	Total Alkalinity	85.0	mg/L as CaCO3	1.0			X507168	MWD	02/14/25 16:42	
SM 2320 B	Bicarbonate	85.0	mg/L as CaCO3	1.0			X507168	MWD	02/14/25 16:42	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X507168	MWD	02/14/25 16:42	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X507168	MWD	02/14/25 16:42	
SM 2540 C	Total Diss. Solids	251	mg/L	10			X507140	TJL	02/14/25 13:30	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X507141	TJL	02/14/25 14:20	
SM 4500 H B	pH @18.8°C	7.1	pH Units				X507168	MWD	02/14/25 16:42	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	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5B0126 Reported: 25-Feb-25 16:15
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Client Sample ID: **GVMW-22B**
SVL Sample ID: **X5B0126-02 (Ground Water)**

Sampled: 11-Feb-25 12:10
Received: 12-Feb-25
Sampled By: JC

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	5.90	mg/L	0.20	0.02		X507094	JPM	02/12/25 17:51	
EPA 300.0	Fluoride	0.426	mg/L	0.100	0.017		X507094	JPM	02/12/25 17:51	
EPA 300.0	Nitrate as N	0.087	mg/L	0.050	0.013		X507094	JPM	02/12/25 17:51	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X507094	JPM	02/12/25 17:51	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X507094	JPM	02/12/25 17:51	
EPA 300.0	Sulfate as SO4	117	mg/L	3.00	1.80	10	X507094	JPM	02/12/25 18:08	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.80 meq/L	Anion Sum: 4.33 meq/L	C/A Balance: -6.46 %	Calculated TDS: 249	TDS/cTDS: 1.01
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This data has been reviewed for accuracy and has been authorized for release.

Kristi A. Groth

Kristi A. Groth
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

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0126**

Reported: 25-Feb-25 16:15

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

Sampled: 11-Feb-25 09:22

SVL Sample ID: **X5B0126-03 (Ground Water)**

Received: 12-Feb-25

Sampled By: JC

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	27.7	mg/L	0.100	0.069		X508045	SJN	02/19/25 11:17	
EPA 200.7	Magnesium	6.44	mg/L	0.500	0.090		X508045	SJN	02/19/25 11:17	
EPA 200.7	Potassium	1.11	mg/L	0.50	0.18		X508045	SJN	02/19/25 11:17	
SM 2340 B	Hardness (as CaCO3)	96.7	mg/L	2.31	0.543		N/A		02/19/25 11:17	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X508065	NMS	02/19/25 08:35	
EPA 200.7	Barium	0.200	mg/L	0.0020	0.0019		X508065	NMS	02/19/25 08:35	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X508065	NMS	02/19/25 08:35	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X508065	NMS	02/19/25 08:35	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X508065	NMS	02/19/25 08:35	
EPA 200.7	Calcium	29.8	mg/L	0.100	0.069		X508065	NMS	02/19/25 08:35	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X508065	NMS	02/19/25 08:35	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X508065	NMS	02/19/25 08:35	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X508065	NMS	02/19/25 08:35	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X508065	NMS	02/19/25 08:35	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X508065	NMS	02/19/25 08:35	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X508065	NMS	02/19/25 08:35	
EPA 200.7	Magnesium	6.67	mg/L	0.500	0.090		X508065	NMS	02/19/25 08:35	
EPA 200.7	Manganese	0.0181	mg/L	0.0080	0.0034		X508065	NMS	02/19/25 08:35	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X508065	NMS	02/19/25 08:35	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X508065	NMS	02/19/25 08:35	
EPA 200.7	Potassium	0.96	mg/L	0.50	0.18		X508065	NMS	02/19/25 08:35	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X508065	NMS	02/19/25 08:35	
EPA 200.7	Sodium	31.4	mg/L	0.50	0.12		X508065	NMS	02/19/25 08:35	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X508065	NMS	02/19/25 08:35	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X508065	NMS	02/19/25 08:35	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X507135	JRR	02/20/25 13:36	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X507135	JRR	02/20/25 13:36	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X507135	JRR	02/20/25 13:36	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X507135	JRR	02/20/25 13:36	
EPA 200.8	Uranium	0.00344	mg/L	0.000100	0.000052		X507135	JRR	02/20/25 13:36	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X508025	MAC	02/24/25 14:55	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X508071	DD	02/19/25 14:01	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X508100	DD	02/20/25 14:17	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X508004	DD	02/18/25 13:25	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X509003	JPM	02/24/25 15:06	
SM 2310 B	Acidity to pH 8.3	-162	mg/L as CaCO3	10.0			X508007	MWD	02/17/25 10:17	
SM 2320 B	Total Alkalinity	159	mg/L as CaCO3	1.0			X507168	MWD	02/14/25 16:47	
SM 2320 B	Bicarbonate	159	mg/L as CaCO3	1.0			X507168	MWD	02/14/25 16:47	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X507168	MWD	02/14/25 16:47	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X507168	MWD	02/14/25 16:47	
SM 2540 C	Total Diss. Solids	182	mg/L	10			X507140	TJL	02/14/25 13:30	
SM 2540 D	Total Susp. Solids	10.0	mg/L	5.0			X507141	TJL	02/14/25 14:20	
SM 4500 H B	pH @18.7°C	8.0	pH Units				X507168	MWD	02/14/25 16:47	H5

SVL holds the following certifications:

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

Work order Report Page 6 of 16



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	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5B0126 Reported: 25-Feb-25 16:15
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Client Sample ID: **GVMW-26A**
SVL Sample ID: **X5B0126-03 (Ground Water)**

Sampled: 11-Feb-25 09:22
Received: 12-Feb-25
Sampled By: JC

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	1.49	mg/L	0.20	0.02		X507094	JPM	02/12/25 18:24	
EPA 300.0	Fluoride	2.11	mg/L	0.100	0.017		X507094	JPM	02/12/25 18:24	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X507094	JPM	02/12/25 18:24	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X507094	JPM	02/12/25 18:24	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X507094	JPM	02/12/25 18:24	
EPA 300.0	Sulfate as SO4	17.4	mg/L	0.30	0.18		X507094	JPM	02/12/25 18:24	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.32 meq/L	Anion Sum: 3.70 meq/L	C/A Balance: -5.37 %	Calculated TDS: 184	TDS/cTDS: 0.99
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This data has been reviewed for accuracy and has been authorized for release.

Kristi A. Groth

Kristi A. Groth
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

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5B0126**

Reported: 25-Feb-25 16:15

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

Sampled: 11-Feb-25 09:59

Received: 12-Feb-25

Sampled By: JC

SVL Sample ID: **X5B0126-04 (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	10.5	mg/L	0.100	0.069		X508045	SJN	02/19/25 11:21	
EPA 200.7	Magnesium	2.24	mg/L	0.500	0.090		X508045	SJN	02/19/25 11:21	
EPA 200.7	Potassium	0.88	mg/L	0.50	0.18		X508045	SJN	02/19/25 11:21	
SM 2340 B	Hardness (as CaCO3)	37.2	mg/L	2.31	0.543		N/A		02/19/25 08:48	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X508065	NMS	02/19/25 08:48	
EPA 200.7	Barium	0.118	mg/L	0.0020	0.0019		X508065	NMS	02/19/25 08:48	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X508065	NMS	02/19/25 08:48	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X508065	NMS	02/19/25 08:48	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X508065	NMS	02/19/25 08:48	
EPA 200.7	Calcium	11.2	mg/L	0.100	0.069		X508065	NMS	02/19/25 08:48	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X508065	NMS	02/19/25 08:48	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X508065	NMS	02/19/25 08:48	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X508065	NMS	02/19/25 08:48	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X508065	NMS	02/19/25 08:48	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X508065	NMS	02/19/25 08:48	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X508065	NMS	02/19/25 08:48	
EPA 200.7	Magnesium	2.17	mg/L	0.500	0.090		X508065	NMS	02/19/25 08:48	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X508065	NMS	02/19/25 08:48	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X508065	NMS	02/19/25 08:48	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X508065	NMS	02/19/25 08:48	
EPA 200.7	Potassium	0.75	mg/L	0.50	0.18		X508065	NMS	02/19/25 08:48	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X508065	NMS	02/19/25 08:48	
EPA 200.7	Sodium	10.2	mg/L	0.50	0.12		X508065	NMS	02/19/25 08:48	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X508065	NMS	02/19/25 08:48	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X508065	NMS	02/19/25 08:48	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X507135	JRR	02/20/25 13:39	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X507135	JRR	02/20/25 13:39	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X507135	JRR	02/20/25 13:39	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X507135	JRR	02/20/25 13:39	
EPA 200.8	Uranium	0.000107	mg/L	0.000100	0.000052		X507135	JRR	02/20/25 13:39	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X508025	MAC	02/24/25 15:02	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X508071	DD	02/19/25 14:03	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X508100	DD	02/20/25 14:30	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X508004	DD	02/18/25 13:27	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X509003	JPM	02/24/25 15:08	
SM 2310 B	Acidity to pH 8.3	-32.8	mg/L as CaCO3	10.0			X508007	MWD	02/17/25 10:17	
SM 2320 B	Total Alkalinity	35.7	mg/L as CaCO3	1.0			X507168	MWD	02/14/25 16:53	
SM 2320 B	Bicarbonate	35.7	mg/L as CaCO3	1.0			X507168	MWD	02/14/25 16:53	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X507168	MWD	02/14/25 16:53	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X507168	MWD	02/14/25 16:53	
SM 2540 C	Total Diss. Solids	84	mg/L	10			X507140	TJL	02/14/25 13:30	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X507141	TJL	02/14/25 14:20	
SM 4500 H B	pH @18.7°C	6.7	pH Units				X507168	MWD	02/14/25 16:53	H5

SVL holds the following certifications:

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

Work order Report Page 8 of 16



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	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5B0126 Reported: 25-Feb-25 16:15
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Client Sample ID: **GVMW-26B**
SVL Sample ID: **X5B0126-04 (Ground Water)**

Sampled: 11-Feb-25 09:59
Received: 12-Feb-25
Sampled By: JC

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	1.98	mg/L	0.20	0.02		X507094	JPM	02/12/25 18:57	
EPA 300.0	Fluoride	0.278	mg/L	0.100	0.017		X507094	JPM	02/12/25 18:57	
EPA 300.0	Nitrate as N	0.708	mg/L	0.050	0.013		X507094	JPM	02/12/25 18:57	
EPA 300.0	Nitrate+Nitrite as N	0.708	mg/L	0.100	0.044		X507094	JPM	02/12/25 18:57	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X507094	JPM	02/12/25 18:57	
EPA 300.0	Sulfate as SO4	22.2	mg/L	0.30	0.18		X507094	JPM	02/12/25 18:57	

Cation/Anion Balance and TDS Ratios

Cation Sum: 1.18 meq/L	Anion Sum: 1.30 meq/L	C/A Balance: -4.70 %	Calculated TDS: 73	TDS/cTDS: 1.15
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This data has been reviewed for accuracy and has been authorized for release.

Kristi A. Groth

Kristi A. Groth
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

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5B0126**

Reported: 25-Feb-25 16:15

Quality Control - BLANK Data

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

EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X508045	19-Feb-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X508045	19-Feb-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X508045	19-Feb-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X508065	19-Feb-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X508065	19-Feb-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X508065	19-Feb-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X508065	19-Feb-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X508065	19-Feb-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X508065	19-Feb-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X508065	19-Feb-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X508065	19-Feb-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X508065	19-Feb-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X508065	19-Feb-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X508065	19-Feb-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X508065	19-Feb-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X508065	19-Feb-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X508065	19-Feb-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X508065	19-Feb-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X508065	19-Feb-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X508065	19-Feb-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X508065	19-Feb-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X508065	19-Feb-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X508065	19-Feb-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X508065	19-Feb-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X507135	20-Feb-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X507135	20-Feb-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X507135	20-Feb-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X507135	20-Feb-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X507135	20-Feb-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X508025	24-Feb-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X508071	19-Feb-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X508100	20-Feb-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X508004	18-Feb-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X509003	24-Feb-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X508007	17-Feb-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X507168	14-Feb-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X507168	14-Feb-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X507168	14-Feb-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X507168	14-Feb-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X507140	14-Feb-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X507141	14-Feb-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X507094	12-Feb-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X507094	12-Feb-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X507094	12-Feb-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X507094	12-Feb-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X507094	12-Feb-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X507094	12-Feb-25	



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

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5B0126**

Reported: 25-Feb-25 16:15

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	mg/L	18.1	20.0	91	85 - 115	X508045	19-Feb-25	
EPA 200.7	Magnesium	mg/L	18.5	20.0	92.4	85 - 115	X508045	19-Feb-25	
EPA 200.7	Potassium	mg/L	18.8	20.0	94.0	85 - 115	X508045	19-Feb-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.949	1.00	94.9	85 - 115	X508065	19-Feb-25	
EPA 200.7	Barium	mg/L	0.988	1.00	98.8	85 - 115	X508065	19-Feb-25	
EPA 200.7	Beryllium	mg/L	0.979	1.00	97.9	85 - 115	X508065	19-Feb-25	
EPA 200.7	Boron	mg/L	0.978	1.00	97.8	85 - 115	X508065	19-Feb-25	
EPA 200.7	Cadmium	mg/L	0.956	1.00	95.6	85 - 115	X508065	19-Feb-25	
EPA 200.7	Calcium	mg/L	19.4	20.0	97.1	85 - 115	X508065	19-Feb-25	
EPA 200.7	Chromium	mg/L	0.975	1.00	97.5	85 - 115	X508065	19-Feb-25	
EPA 200.7	Cobalt	mg/L	0.940	1.00	94.0	85 - 115	X508065	19-Feb-25	
EPA 200.7	Copper	mg/L	0.965	1.00	96.5	85 - 115	X508065	19-Feb-25	
EPA 200.7	Iron	mg/L	9.84	10.0	98.4	85 - 115	X508065	19-Feb-25	
EPA 200.7	Lead	mg/L	0.955	1.00	95.5	85 - 115	X508065	19-Feb-25	
EPA 200.7	Lithium	mg/L	0.950	1.00	95.0	85 - 115	X508065	19-Feb-25	
EPA 200.7	Magnesium	mg/L	19.0	20.0	94.8	85 - 115	X508065	19-Feb-25	
EPA 200.7	Manganese	mg/L	0.969	1.00	96.9	85 - 115	X508065	19-Feb-25	
EPA 200.7	Molybdenum	mg/L	0.975	1.00	97.5	85 - 115	X508065	19-Feb-25	
EPA 200.7	Nickel	mg/L	0.939	1.00	93.9	85 - 115	X508065	19-Feb-25	
EPA 200.7	Potassium	mg/L	19.7	20.0	98.5	85 - 115	X508065	19-Feb-25	
EPA 200.7	Silver	mg/L	0.0485	0.0500	96.9	85 - 115	X508065	19-Feb-25	
EPA 200.7	Sodium	mg/L	18.7	19.0	98.3	85 - 115	X508065	19-Feb-25	
EPA 200.7	Vanadium	mg/L	0.992	1.00	99.2	85 - 115	X508065	19-Feb-25	
EPA 200.7	Zinc	mg/L	0.968	1.00	96.8	85 - 115	X508065	19-Feb-25	
EPA 200.8	Antimony	mg/L	0.0265	0.0250	106	85 - 115	X507135	20-Feb-25	
EPA 200.8	Arsenic	mg/L	0.0247	0.0250	98.8	85 - 115	X507135	20-Feb-25	
EPA 200.8	Selenium	mg/L	0.0233	0.0250	93.2	85 - 115	X507135	20-Feb-25	
EPA 200.8	Thallium	mg/L	0.0255	0.0250	102	85 - 115	X507135	20-Feb-25	
EPA 200.8	Uranium	mg/L	0.0265	0.0250	106	85 - 115	X507135	20-Feb-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00205	0.00200	102	85 - 115	X508025	24-Feb-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.101	0.100	101	90 - 110	X508071	19-Feb-25	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.100	103	90 - 110	X508100	20-Feb-25	
EPA 350.1	Ammonia as N	mg/L	0.991	1.00	99.1	90 - 110	X508004	18-Feb-25	
OIA 1677	Cyanide (WAD)	mg/L	0.106	0.100	106	90 - 110	X509003	24-Feb-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	716	706	101	95.4 - 104	X508007	17-Feb-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	102	99.3	103	94 - 106	X507168	14-Feb-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	393	397	99.1	94 - 106	X507168	14-Feb-25	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X507141	14-Feb-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.16	3.00	105	90 - 110	X507094	12-Feb-25	
EPA 300.0	Fluoride	mg/L	2.14	2.00	107	90 - 110	X507094	12-Feb-25	
EPA 300.0	Nitrate as N	mg/L	2.05	2.00	103	90 - 110	X507094	12-Feb-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.74	4.50	105	90 - 110	X507094	12-Feb-25	
EPA 300.0	Nitrite as N	mg/L	2.68	2.50	107	90 - 110	X507094	12-Feb-25	
EPA 300.0	Sulfate as SO4	mg/L	10.8	10.0	108	90 - 110	X507094	12-Feb-25	

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0126**

Reported: 25-Feb-25 16:15

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO ₃	<10.0	<10.0	UDL	20	X508007 - X5B0049-01	17-Feb-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	165	165	0.2	20	X507168 - X5B0126-01	14-Feb-25	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	165	165	0.2	20	X507168 - X5B0126-01	14-Feb-25	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X507168 - X5B0126-01	14-Feb-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X507168 - X5B0126-01	14-Feb-25	
SM 2540 C	Total Diss. Solids	mg/L	1160	1150	0.8	10	X507140 - X5B0128-10	14-Feb-25	
SM 2540 C	Total Diss. Solids	mg/L	247	251	1.6	10	X507140 - X5B0126-02	14-Feb-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X507141 - X5B0126-02	14-Feb-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X507141 - X5B0128-10	14-Feb-25	
SM 4500 H B	pH @18.8°C	pH Units	8.0	7.9	0.4	20	X507168 - X5B0126-01	14-Feb-25	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	31.6	12.2	20.0	97	70 - 130	X508045 - X5B0150-03	19-Feb-25	
EPA 200.7	Calcium	mg/L	816	784	20.0	0.30R>S	70 - 130	X508045 - X5B0152-04	19-Feb-25	D11,M4
EPA 200.7	Magnesium	mg/L	19.7	0.600	20.0	95.6	70 - 130	X508045 - X5B0150-03	19-Feb-25	
EPA 200.7	Magnesium	mg/L	20.1	<2.50	20.0	97.9	70 - 130	X508045 - X5B0152-04	19-Feb-25	D11
EPA 200.7	Potassium	mg/L	19.9	0.58	20.0	96.7	70 - 130	X508045 - X5B0150-03	19-Feb-25	
EPA 200.7	Potassium	mg/L	43.4	24.0	20.0	97.1	70 - 130	X508045 - X5B0152-04	19-Feb-25	D11
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.963	<0.080	1.00	96.3	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Aluminum	mg/L	1.25	0.278	1.00	97.2	70 - 130	X508065 - X5B0190-03	19-Feb-25	
EPA 200.7	Barium	mg/L	1.03	0.0353	1.00	99.9	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Barium	mg/L	1.00	0.0162	1.00	98.4	70 - 130	X508065 - X5B0190-03	19-Feb-25	
EPA 200.7	Beryllium	mg/L	0.952	<0.00200	1.00	95.2	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Beryllium	mg/L	0.983	0.0261	1.00	95.7	70 - 130	X508065 - X5B0190-03	19-Feb-25	
EPA 200.7	Boron	mg/L	1.03	<0.0400	1.00	99.5	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Boron	mg/L	0.994	<0.0400	1.00	99.4	70 - 130	X508065 - X5B0190-03	19-Feb-25	
EPA 200.7	Cadmium	mg/L	0.949	<0.0020	1.00	94.9	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Cadmium	mg/L	0.939	<0.0020	1.00	93.9	70 - 130	X508065 - X5B0190-03	19-Feb-25	
EPA 200.7	Calcium	mg/L	62.6	42.7	20.0	99.3	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Calcium	mg/L	57.4	38.0	20.0	97.2	70 - 130	X508065 - X5B0190-03	19-Feb-25	
EPA 200.7	Chromium	mg/L	0.974	<0.0060	1.00	97.4	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Chromium	mg/L	0.954	<0.0060	1.00	95.4	70 - 130	X508065 - X5B0190-03	19-Feb-25	
EPA 200.7	Cobalt	mg/L	0.923	<0.0060	1.00	92.3	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Cobalt	mg/L	0.974	0.0563	1.00	91.8	70 - 130	X508065 - X5B0190-03	19-Feb-25	
EPA 200.7	Copper	mg/L	0.944	<0.0100	1.00	94.4	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Copper	mg/L	0.951	<0.0100	1.00	95.1	70 - 130	X508065 - X5B0190-03	19-Feb-25	
EPA 200.7	Iron	mg/L	9.94	<0.100	10.0	99.4	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Iron	mg/L	32.1	22.4	10.0	96.6	70 - 130	X508065 - X5B0190-03	19-Feb-25	
EPA 200.7	Lead	mg/L	0.942	<0.0075	1.00	94.2	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Lead	mg/L	0.976	0.0407	1.00	93.6	70 - 130	X508065 - X5B0190-03	19-Feb-25	
EPA 200.7	Lithium	mg/L	1.01	<0.040	1.00	101	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Lithium	mg/L	1.00	<0.040	1.00	100	70 - 130	X508065 - X5B0190-03	19-Feb-25	
EPA 200.7	Magnesium	mg/L	29.6	9.76	20.0	99.2	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Magnesium	mg/L	41.2	21.1	20.0	101	70 - 130	X508065 - X5B0190-03	19-Feb-25	

SVL holds the following certifications:

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

Work order Report Page 12 of 16

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0126**

Reported: 25-Feb-25 16:15

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Manganese	mg/L	0.970	0.0112	1.00	95.9	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Manganese	mg/L	2.22	1.31	1.00	91.2	70 - 130	X508065 - X5B0190-03	19-Feb-25	
EPA 200.7	Molybdenum	mg/L	0.967	<0.0080	1.00	96.7	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Molybdenum	mg/L	0.955	<0.0080	1.00	95.5	70 - 130	X508065 - X5B0190-03	19-Feb-25	
EPA 200.7	Nickel	mg/L	0.929	<0.0100	1.00	92.9	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Nickel	mg/L	1.02	0.103	1.00	91.3	70 - 130	X508065 - X5B0190-03	19-Feb-25	
EPA 200.7	Potassium	mg/L	22.1	2.45	20.0	98.4	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Potassium	mg/L	21.7	2.03	20.0	98.3	70 - 130	X508065 - X5B0190-03	19-Feb-25	
EPA 200.7	Silver	mg/L	0.0488	<0.0050	0.0500	97.6	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Silver	mg/L	0.0489	<0.0050	0.0500	97.8	70 - 130	X508065 - X5B0190-03	19-Feb-25	
EPA 200.7	Sodium	mg/L	46.5	28.0	19.0	97.1	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Sodium	mg/L	31.8	13.2	19.0	98.3	70 - 130	X508065 - X5B0190-03	19-Feb-25	
EPA 200.7	Vanadium	mg/L	0.972	<0.0050	1.00	96.9	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Vanadium	mg/L	0.980	<0.0050	1.00	98.0	70 - 130	X508065 - X5B0190-03	19-Feb-25	
EPA 200.7	Zinc	mg/L	0.955	<0.0100	1.00	95.5	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Zinc	mg/L	1.95	1.05	1.00	90.3	70 - 130	X508065 - X5B0190-03	19-Feb-25	
EPA 200.8	Antimony	mg/L	0.0281	<0.00100	0.0250	113	70 - 130	X507135 - X5B0054-01	20-Feb-25	
EPA 200.8	Antimony	mg/L	0.0275	<0.00100	0.0250	110	70 - 130	X507135 - X5B0126-01	20-Feb-25	
EPA 200.8	Arsenic	mg/L	0.0325	0.00338	0.0250	116	70 - 130	X507135 - X5B0054-01	20-Feb-25	
EPA 200.8	Arsenic	mg/L	0.0280	<0.00100	0.0250	109	70 - 130	X507135 - X5B0126-01	20-Feb-25	
EPA 200.8	Selenium	mg/L	0.0346	0.00198	0.0250	130	70 - 130	X507135 - X5B0054-01	20-Feb-25	
EPA 200.8	Selenium	mg/L	0.0297	<0.00100	0.0250	119	70 - 130	X507135 - X5B0126-01	20-Feb-25	
EPA 200.8	Thallium	mg/L	0.0279	<0.000200	0.0250	111	70 - 130	X507135 - X5B0054-01	20-Feb-25	
EPA 200.8	Thallium	mg/L	0.0252	<0.000200	0.0250	101	70 - 130	X507135 - X5B0126-01	20-Feb-25	
EPA 200.8	Uranium	mg/L	0.0341	0.00467	0.0250	118	70 - 130	X507135 - X5B0054-01	20-Feb-25	
EPA 200.8	Uranium	mg/L	0.0311	0.00354	0.0250	110	70 - 130	X507135 - X5B0126-01	20-Feb-25	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00204	<0.000200	0.00200	102	70 - 130	X508025 - X5B0110-01	24-Feb-25	
EPA 245.1	Mercury	mg/L	0.00206	<0.000200	0.00200	103	70 - 130	X508025 - X5B0158-01	24-Feb-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.110	<0.0050	0.100	110	79 - 121	X508071 - X5B0110-01	19-Feb-25	
EPA 335.4	Cyanide (total)	mg/L	0.103	<0.0050	0.100	103	90 - 110	X508100 - X5B0110-01	20-Feb-25	
EPA 335.4	Cyanide (total)	mg/L	0.103	<0.0050	0.100	103	90 - 110	X508100 - X5B0110-02	20-Feb-25	
EPA 350.1	Ammonia as N	mg/L	1.71	0.808	1.00	90.6	90 - 110	X508004 - X5B0128-10	18-Feb-25	
EPA 350.1	Ammonia as N	mg/L	1.75	0.829	1.00	92.5	90 - 110	X508004 - X5B0128-09	18-Feb-25	
OIA 1677	Cyanide (WAD)	mg/L	0.107	<0.0050	0.100	107	82 - 118	X509003 - X5B0126-01	24-Feb-25	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	18.1	15.0	3.00	103	90 - 110	X507094 - X5B0105-01	12-Feb-25	
EPA 300.0	Chloride	mg/L	18.3	15.0	3.00	107	90 - 110	X507094 - X5B0106-03	12-Feb-25	
EPA 300.0	Fluoride	mg/L	2.21	0.139	2.00	103	90 - 110	X507094 - X5B0105-01	12-Feb-25	
EPA 300.0	Fluoride	mg/L	2.20	0.137	2.00	103	90 - 110	X507094 - X5B0106-03	12-Feb-25	
EPA 300.0	Nitrate as N	mg/L	14.9	13.1	2.00	0.30R>S	90 - 110	X507094 - X5B0105-01	12-Feb-25	M4
EPA 300.0	Nitrate as N	mg/L	14.7	12.9	2.00	91.9	90 - 110	X507094 - X5B0106-03	12-Feb-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	17.1	13.2	4.00	97.2	90 - 110	X507094 - X5B0105-01	12-Feb-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	16.9	12.9	4.00	100	90 - 110	X507094 - X5B0106-03	12-Feb-25	
EPA 300.0	Nitrite as N	mg/L	2.23	0.066	2.00	108	90 - 110	X507094 - X5B0105-01	12-Feb-25	
EPA 300.0	Nitrite as N	mg/L	2.21	0.054	2.00	108	90 - 110	X507094 - X5B0106-03	12-Feb-25	
EPA 300.0	Sulfate as SO4	mg/L	140	131	10.0	94.6	90 - 110	X507094 - X5B0105-01	12-Feb-25	

SVL holds the following certifications:

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

Work order Report Page 13 of 16

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0126**

Reported: 25-Feb-25 16:15

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
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Anions by Ion Chromatography (Continued)

EPA 300.0	Sulfate as SO4	mg/L	140	131	10.0	92.2	90 - 110	X507094 - X5B0106-03	12-Feb-25	
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Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	mg/L	31.9	31.6	20.0	0.8	20	98	X508045 - X5B0150-03	
EPA 200.7	Magnesium	mg/L	19.9	19.7	20.0	1.0	20	96.6	X508045 - X5B0150-03	
EPA 200.7	Potassium	mg/L	20.0	19.9	20.0	0.4	20	97.1	X508045 - X5B0150-03	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.966	0.963	1.00	0.3	20	96.6	X508065 - X5B0110-01	
EPA 200.7	Barium	mg/L	1.04	1.03	1.00	0.3	20	100	X508065 - X5B0110-01	
EPA 200.7	Beryllium	mg/L	0.977	0.952	1.00	2.6	20	97.7	X508065 - X5B0110-01	
EPA 200.7	Boron	mg/L	1.03	1.03	1.00	0.4	20	99.9	X508065 - X5B0110-01	
EPA 200.7	Cadmium	mg/L	0.980	0.949	1.00	3.2	20	98.0	X508065 - X5B0110-01	
EPA 200.7	Calcium	mg/L	62.3	62.6	20.0	0.4	20	98.0	X508065 - X5B0110-01	
EPA 200.7	Chromium	mg/L	0.995	0.974	1.00	2.1	20	99.5	X508065 - X5B0110-01	
EPA 200.7	Cobalt	mg/L	0.952	0.923	1.00	3.0	20	95.2	X508065 - X5B0110-01	
EPA 200.7	Copper	mg/L	0.962	0.944	1.00	2.0	20	96.2	X508065 - X5B0110-01	
EPA 200.7	Iron	mg/L	9.99	9.94	10.0	0.5	20	99.9	X508065 - X5B0110-01	
EPA 200.7	Lead	mg/L	0.975	0.942	1.00	3.4	20	97.5	X508065 - X5B0110-01	
EPA 200.7	Lithium	mg/L	1.01	1.01	1.00	0.1	20	101	X508065 - X5B0110-01	
EPA 200.7	Magnesium	mg/L	29.5	29.6	20.0	0.4	20	98.6	X508065 - X5B0110-01	
EPA 200.7	Manganese	mg/L	0.989	0.970	1.00	1.9	20	97.8	X508065 - X5B0110-01	
EPA 200.7	Molybdenum	mg/L	0.997	0.967	1.00	3.1	20	99.7	X508065 - X5B0110-01	
EPA 200.7	Nickel	mg/L	0.956	0.929	1.00	3.0	20	95.6	X508065 - X5B0110-01	
EPA 200.7	Potassium	mg/L	22.2	22.1	20.0	0.5	20	98.9	X508065 - X5B0110-01	
EPA 200.7	Silver	mg/L	0.0489	0.0488	0.0500	0.1	20	97.7	X508065 - X5B0110-01	
EPA 200.7	Sodium	mg/L	46.4	46.5	19.0	0.1	20	96.8	X508065 - X5B0110-01	
EPA 200.7	Vanadium	mg/L	0.998	0.972	1.00	2.6	20	99.4	X508065 - X5B0110-01	
EPA 200.7	Zinc	mg/L	0.986	0.955	1.00	3.2	20	98.6	X508065 - X5B0110-01	
EPA 200.8	Antimony	mg/L	0.0296	0.0281	0.0250	5.0	20	118	X507135 - X5B0054-01	
EPA 200.8	Arsenic	mg/L	0.0330	0.0325	0.0250	1.7	20	119	X507135 - X5B0054-01	
EPA 200.8	Selenium	mg/L	0.0363	0.0346	0.0250	4.9	20	137	X507135 - X5B0054-01	M1
EPA 200.8	Thallium	mg/L	0.0296	0.0279	0.0250	6.0	20	118	X507135 - X5B0054-01	
EPA 200.8	Uranium	mg/L	0.0352	0.0341	0.0250	3.1	20	122	X507135 - X5B0054-01	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00205	0.00204	0.00200	0.7	20	103	X508025 - X5B0110-01	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.111	0.110	0.100	0.9	11	111	X508071 - X5B0110-01	
EPA 335.4	Cyanide (total)	mg/L	0.104	0.103	0.100	1.4	20	104	X508100 - X5B0110-01	
EPA 350.1	Ammonia as N	mg/L	1.70	1.71	1.00	0.7	20	89.3	X508004 - X5B0128-10	M2
OIA 1677	Cyanide (WAD)	mg/L	0.113	0.107	0.100	5.4	11	113	X509003 - X5B0126-01	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	17.8	18.1	3.00	1.7	20	92.6	X507094 - X5B0105-01	
EPA 300.0	Fluoride	mg/L	2.19	2.21	2.00	0.7	20	103	X507094 - X5B0105-01	
EPA 300.0	Nitrate as N	mg/L	14.6	14.9	2.00	1.8	20	0.30R>S	X507094 - X5B0105-01	M4
EPA 300.0	Nitrate+Nitrite as N	mg/L	16.8	17.1	4.00	1.5	20	90.7	X507094 - X5B0105-01	
EPA 300.0	Nitrite as N	mg/L	2.23	2.23	2.00	0.1	20	108	X507094 - X5B0105-01	



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(208) 784-1258
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Newmont - Cripple Creek & Victor					Project Name: Cripple Creek/Victor Water and Soil 2024				
Post Office Box 191					Work Order: X5B0126				
Victor, CO 80860					Reported: 25-Feb-25 16:15				

Quality Control - MATRIX SPIKE DUPLICATE Data				(Continued)						
Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Anions by Ion Chromatography (Continued)										
EPA 300.0	Sulfate as SO4	mg/L	140	140	10.0	0.1	20	92.6	X507094 - X5B0105-01	



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Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0126**

Reported: 25-Feb-25 16:15

Notes and Definitions

D11	Due to sample color, a sample dilution was performed to minimize spectral interference.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable



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Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0127**

Reported: 26-Feb-25 12:42

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-126G	X5B0127-01	Ground Water	11-Feb-25 09:54	JC	12-Feb-2025	

Sample preparation is defined by the client as per their Data Quality Objectives.

This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.

Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.

The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.

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Case Narrative: X5B0127

The state of origin only accredits for drinking water analyses.

Samples treated with CdCO₃ before CN analysis for sulfide interference at client request.

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0127**

Reported: 26-Feb-25 12:42

Client Sample ID: **GVMW-126G**

Sampled: 11-Feb-25 09:54

Received: 12-Feb-25

Sampled By: JC

SVL Sample ID: **X5B0127-01 (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	10.1	mg/L	0.100	0.069		X508045	SJN	02/19/25 11:25	
EPA 200.7	Magnesium	2.12	mg/L	0.500	0.090		X508045	SJN	02/19/25 11:25	
EPA 200.7	Potassium	0.84	mg/L	0.50	0.18		X508045	SJN	02/19/25 11:25	
SM 2340 B	Hardness (as CaCO3)	33.9	mg/L	2.31	0.543		N/A		02/19/25 08:52	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X508065	NMS	02/19/25 08:52	
EPA 200.7	Barium	0.114	mg/L	0.0020	0.0019		X508065	NMS	02/19/25 08:52	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X508065	NMS	02/19/25 08:52	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X508065	NMS	02/19/25 08:52	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X508065	NMS	02/19/25 08:52	
EPA 200.7	Calcium	11.1	mg/L	0.100	0.069		X508065	NMS	02/19/25 08:52	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X508065	NMS	02/19/25 08:52	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X508065	NMS	02/19/25 08:52	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X508065	NMS	02/19/25 08:52	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X508065	NMS	02/19/25 08:52	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X508065	NMS	02/19/25 08:52	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X508065	NMS	02/19/25 08:52	
EPA 200.7	Magnesium	2.17	mg/L	0.500	0.090		X508065	NMS	02/19/25 08:52	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X508065	NMS	02/19/25 08:52	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X508065	NMS	02/19/25 08:52	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X508065	NMS	02/19/25 08:52	
EPA 200.7	Potassium	0.78	mg/L	0.50	0.18		X508065	NMS	02/19/25 08:52	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X508065	NMS	02/19/25 08:52	
EPA 200.7	Sodium	10.1	mg/L	0.50	0.12		X508065	NMS	02/19/25 08:52	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X508065	NMS	02/19/25 08:52	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X508065	NMS	02/19/25 08:52	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X507135	JRR	02/20/25 13:43	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X507135	JRR	02/20/25 13:43	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X507135	JRR	02/20/25 13:43	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X507135	JRR	02/20/25 13:43	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X507135	JRR	02/20/25 13:43	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X508025	MAC	02/24/25 15:04	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X508071	DD	02/19/25 14:12	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X508100	DD	02/20/25 14:31	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X508004	DD	02/18/25 13:29	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X509003	JPM	02/24/25 15:09	
SM 2310 B	Acidity to pH 8.3	-32.8	mg/L as CaCO3	10.0			X508007	MWD	02/17/25 10:17	
SM 2320 B	Total Alkalinity	36.9	mg/L as CaCO3	1.0			X507168	MWD	02/14/25 17:07	
SM 2320 B	Bicarbonate	36.9	mg/L as CaCO3	1.0			X507168	MWD	02/14/25 17:07	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X507168	MWD	02/14/25 17:07	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X507168	MWD	02/14/25 17:07	
SM 2540 C	Total Diss. Solids	88	mg/L	10			X507140	TJL	02/14/25 13:30	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X507141	TJL	02/14/25 14:20	
SM 4500 H B	pH @18.6°C	6.8	pH Units				X507168	MWD	02/14/25 17:07	H5

SVL holds the following certifications:

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

Work order Report Page 2 of 10



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Newmont - Cripple Creek & Victor Post Office Box 191 Victor, CO 80860	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5B0127 Reported: 26-Feb-25 12:42
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Client Sample ID: **GVMW-126G**
SVL Sample ID: **X5B0127-01 (Ground Water)**

Sampled: 11-Feb-25 09:54
Received: 12-Feb-25
Sampled By: JC

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	1.96	mg/L	0.20	0.02		X507094	JPM	02/12/25 19:14	
EPA 300.0	Fluoride	0.245	mg/L	0.100	0.017		X507094	JPM	02/12/25 19:14	
EPA 300.0	Nitrate as N	0.696	mg/L	0.050	0.013		X507094	JPM	02/12/25 19:14	
EPA 300.0	Nitrate+Nitrite as N	0.696	mg/L	0.100	0.044		X507094	JPM	02/12/25 19:14	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X507094	JPM	02/12/25 19:14	
EPA 300.0	Sulfate as SO4	22.2	mg/L	0.30	0.18		X507094	JPM	02/12/25 19:14	

Cation/Anion Balance and TDS Ratios

Cation Sum: 1.15 meq/L	Anion Sum: 1.32 meq/L	C/A Balance: -6.68 %	Calculated TDS: 73	TDS/cTDS: 1.20
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This data has been reviewed for accuracy and has been authorized for release.

Kristi A. Groth

Kristi A. Groth
Project Manager



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

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

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0127**

Reported: 26-Feb-25 12:42

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X508045	19-Feb-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X508045	19-Feb-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X508045	19-Feb-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X508065	19-Feb-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X508065	19-Feb-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X508065	19-Feb-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X508065	19-Feb-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X508065	19-Feb-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X508065	19-Feb-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X508065	19-Feb-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X508065	19-Feb-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X508065	19-Feb-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X508065	19-Feb-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X508065	19-Feb-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X508065	19-Feb-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X508065	19-Feb-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X508065	19-Feb-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X508065	19-Feb-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X508065	19-Feb-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X508065	19-Feb-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X508065	19-Feb-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X508065	19-Feb-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X508065	19-Feb-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X508065	19-Feb-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X507135	20-Feb-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X507135	20-Feb-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X507135	20-Feb-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X507135	20-Feb-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X507135	20-Feb-25	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X508025	24-Feb-25	
Classical Chemistry Parameters								
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X508071	19-Feb-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X508100	20-Feb-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X508004	18-Feb-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X509003	24-Feb-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X508007	17-Feb-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X507168	14-Feb-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X507168	14-Feb-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X507168	14-Feb-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X507168	14-Feb-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X507140	14-Feb-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X507141	14-Feb-25	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X507094	12-Feb-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X507094	12-Feb-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X507094	12-Feb-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X507094	12-Feb-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X507094	12-Feb-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X507094	12-Feb-25	

SVL holds the following certifications:

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

Work order Report Page 4 of 10



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Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5B0127**

Reported: 26-Feb-25 12:42

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	mg/L	18.1	20.0	91	85 - 115	X508045	19-Feb-25	
EPA 200.7	Magnesium	mg/L	18.5	20.0	92.4	85 - 115	X508045	19-Feb-25	
EPA 200.7	Potassium	mg/L	18.8	20.0	94.0	85 - 115	X508045	19-Feb-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.949	1.00	94.9	85 - 115	X508065	19-Feb-25	
EPA 200.7	Barium	mg/L	0.988	1.00	98.8	85 - 115	X508065	19-Feb-25	
EPA 200.7	Beryllium	mg/L	0.979	1.00	97.9	85 - 115	X508065	19-Feb-25	
EPA 200.7	Boron	mg/L	0.978	1.00	97.8	85 - 115	X508065	19-Feb-25	
EPA 200.7	Cadmium	mg/L	0.956	1.00	95.6	85 - 115	X508065	19-Feb-25	
EPA 200.7	Calcium	mg/L	19.4	20.0	97.1	85 - 115	X508065	19-Feb-25	
EPA 200.7	Chromium	mg/L	0.975	1.00	97.5	85 - 115	X508065	19-Feb-25	
EPA 200.7	Cobalt	mg/L	0.940	1.00	94.0	85 - 115	X508065	19-Feb-25	
EPA 200.7	Copper	mg/L	0.965	1.00	96.5	85 - 115	X508065	19-Feb-25	
EPA 200.7	Iron	mg/L	9.84	10.0	98.4	85 - 115	X508065	19-Feb-25	
EPA 200.7	Lead	mg/L	0.955	1.00	95.5	85 - 115	X508065	19-Feb-25	
EPA 200.7	Lithium	mg/L	0.950	1.00	95.0	85 - 115	X508065	19-Feb-25	
EPA 200.7	Magnesium	mg/L	19.0	20.0	94.8	85 - 115	X508065	19-Feb-25	
EPA 200.7	Manganese	mg/L	0.969	1.00	96.9	85 - 115	X508065	19-Feb-25	
EPA 200.7	Molybdenum	mg/L	0.975	1.00	97.5	85 - 115	X508065	19-Feb-25	
EPA 200.7	Nickel	mg/L	0.939	1.00	93.9	85 - 115	X508065	19-Feb-25	
EPA 200.7	Potassium	mg/L	19.7	20.0	98.5	85 - 115	X508065	19-Feb-25	
EPA 200.7	Silver	mg/L	0.0485	0.0500	96.9	85 - 115	X508065	19-Feb-25	
EPA 200.7	Sodium	mg/L	18.7	19.0	98.3	85 - 115	X508065	19-Feb-25	
EPA 200.7	Vanadium	mg/L	0.992	1.00	99.2	85 - 115	X508065	19-Feb-25	
EPA 200.7	Zinc	mg/L	0.968	1.00	96.8	85 - 115	X508065	19-Feb-25	
EPA 200.8	Antimony	mg/L	0.0265	0.0250	106	85 - 115	X507135	20-Feb-25	
EPA 200.8	Arsenic	mg/L	0.0247	0.0250	98.8	85 - 115	X507135	20-Feb-25	
EPA 200.8	Selenium	mg/L	0.0233	0.0250	93.2	85 - 115	X507135	20-Feb-25	
EPA 200.8	Thallium	mg/L	0.0255	0.0250	102	85 - 115	X507135	20-Feb-25	
EPA 200.8	Uranium	mg/L	0.0265	0.0250	106	85 - 115	X507135	20-Feb-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00205	0.00200	102	85 - 115	X508025	24-Feb-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.101	0.100	101	90 - 110	X508071	19-Feb-25	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.100	103	90 - 110	X508100	20-Feb-25	
EPA 350.1	Ammonia as N	mg/L	0.991	1.00	99.1	90 - 110	X508004	18-Feb-25	
OIA 1677	Cyanide (WAD)	mg/L	0.106	0.100	106	90 - 110	X509003	24-Feb-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	716	706	101	95.4 - 104	X508007	17-Feb-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	102	99.3	103	94 - 106	X507168	14-Feb-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	393	397	99.1	94 - 106	X507168	14-Feb-25	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X507141	14-Feb-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.16	3.00	105	90 - 110	X507094	12-Feb-25	
EPA 300.0	Fluoride	mg/L	2.14	2.00	107	90 - 110	X507094	12-Feb-25	
EPA 300.0	Nitrate as N	mg/L	2.05	2.00	103	90 - 110	X507094	12-Feb-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.74	4.50	105	90 - 110	X507094	12-Feb-25	
EPA 300.0	Nitrite as N	mg/L	2.68	2.50	107	90 - 110	X507094	12-Feb-25	
EPA 300.0	Sulfate as SO4	mg/L	10.8	10.0	108	90 - 110	X507094	12-Feb-25	

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0127**

Reported: 26-Feb-25 12:42

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO ₃	<10.0	<10.0	UDL	20	X508007 - X5B0049-01	17-Feb-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	165	165	0.2	20	X507168 - X5B0126-01	14-Feb-25	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	165	165	0.2	20	X507168 - X5B0126-01	14-Feb-25	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X507168 - X5B0126-01	14-Feb-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X507168 - X5B0126-01	14-Feb-25	
SM 2540 C	Total Diss. Solids	mg/L	1160	1150	0.8	10	X507140 - X5B0128-10	14-Feb-25	
SM 2540 C	Total Diss. Solids	mg/L	247	251	1.6	10	X507140 - X5B0126-02	14-Feb-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X507141 - X5B0126-02	14-Feb-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X507141 - X5B0128-10	14-Feb-25	
SM 4500 H B	pH @18.8°C	pH Units	8.0	7.9	0.4	20	X507168 - X5B0126-01	14-Feb-25	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	31.6	12.2	20.0	97	70 - 130	X508045 - X5B0150-03	19-Feb-25	
EPA 200.7	Calcium	mg/L	816	784	20.0	0.30R>S	70 - 130	X508045 - X5B0152-04	19-Feb-25	D11,M4
EPA 200.7	Magnesium	mg/L	19.7	0.600	20.0	95.6	70 - 130	X508045 - X5B0150-03	19-Feb-25	
EPA 200.7	Magnesium	mg/L	20.1	<2.50	20.0	97.9	70 - 130	X508045 - X5B0152-04	19-Feb-25	D11
EPA 200.7	Potassium	mg/L	19.9	0.58	20.0	96.7	70 - 130	X508045 - X5B0150-03	19-Feb-25	
EPA 200.7	Potassium	mg/L	43.4	24.0	20.0	97.1	70 - 130	X508045 - X5B0152-04	19-Feb-25	D11

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.963	<0.080	1.00	96.3	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Aluminum	mg/L	1.25	0.278	1.00	97.2	70 - 130	X508065 - X5B0190-03	19-Feb-25	
EPA 200.7	Barium	mg/L	1.03	0.0353	1.00	99.9	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Barium	mg/L	1.00	0.0162	1.00	98.4	70 - 130	X508065 - X5B0190-03	19-Feb-25	
EPA 200.7	Beryllium	mg/L	0.952	<0.00200	1.00	95.2	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Beryllium	mg/L	0.983	0.0261	1.00	95.7	70 - 130	X508065 - X5B0190-03	19-Feb-25	
EPA 200.7	Boron	mg/L	1.03	<0.0400	1.00	99.5	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Boron	mg/L	0.994	<0.0400	1.00	99.4	70 - 130	X508065 - X5B0190-03	19-Feb-25	
EPA 200.7	Cadmium	mg/L	0.949	<0.0020	1.00	94.9	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Cadmium	mg/L	0.939	<0.0020	1.00	93.9	70 - 130	X508065 - X5B0190-03	19-Feb-25	
EPA 200.7	Calcium	mg/L	62.6	42.7	20.0	99.3	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Calcium	mg/L	57.4	38.0	20.0	97.2	70 - 130	X508065 - X5B0190-03	19-Feb-25	
EPA 200.7	Chromium	mg/L	0.974	<0.0060	1.00	97.4	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Chromium	mg/L	0.954	<0.0060	1.00	95.4	70 - 130	X508065 - X5B0190-03	19-Feb-25	
EPA 200.7	Cobalt	mg/L	0.923	<0.0060	1.00	92.3	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Cobalt	mg/L	0.974	0.0563	1.00	91.8	70 - 130	X508065 - X5B0190-03	19-Feb-25	
EPA 200.7	Copper	mg/L	0.944	<0.0100	1.00	94.4	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Copper	mg/L	0.951	<0.0100	1.00	95.1	70 - 130	X508065 - X5B0190-03	19-Feb-25	
EPA 200.7	Iron	mg/L	9.94	<0.100	10.0	99.4	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Iron	mg/L	32.1	22.4	10.0	96.6	70 - 130	X508065 - X5B0190-03	19-Feb-25	
EPA 200.7	Lead	mg/L	0.942	<0.0075	1.00	94.2	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Lead	mg/L	0.976	0.0407	1.00	93.6	70 - 130	X508065 - X5B0190-03	19-Feb-25	
EPA 200.7	Lithium	mg/L	1.01	<0.040	1.00	101	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Lithium	mg/L	1.00	<0.040	1.00	100	70 - 130	X508065 - X5B0190-03	19-Feb-25	
EPA 200.7	Magnesium	mg/L	29.6	9.76	20.0	99.2	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Magnesium	mg/L	41.2	21.1	20.0	101	70 - 130	X508065 - X5B0190-03	19-Feb-25	

SVL holds the following certifications:

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

Work order Report Page 6 of 10

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0127**

Reported: 26-Feb-25 12:42

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Manganese	mg/L	0.970	0.0112	1.00	95.9	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Manganese	mg/L	2.22	1.31	1.00	91.2	70 - 130	X508065 - X5B0190-03	19-Feb-25	
EPA 200.7	Molybdenum	mg/L	0.967	<0.0080	1.00	96.7	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Molybdenum	mg/L	0.955	<0.0080	1.00	95.5	70 - 130	X508065 - X5B0190-03	19-Feb-25	
EPA 200.7	Nickel	mg/L	0.929	<0.0100	1.00	92.9	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Nickel	mg/L	1.02	0.103	1.00	91.3	70 - 130	X508065 - X5B0190-03	19-Feb-25	
EPA 200.7	Potassium	mg/L	22.1	2.45	20.0	98.4	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Potassium	mg/L	21.7	2.03	20.0	98.3	70 - 130	X508065 - X5B0190-03	19-Feb-25	
EPA 200.7	Silver	mg/L	0.0488	<0.0050	0.0500	97.6	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Silver	mg/L	0.0489	<0.0050	0.0500	97.8	70 - 130	X508065 - X5B0190-03	19-Feb-25	
EPA 200.7	Sodium	mg/L	46.5	28.0	19.0	97.1	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Sodium	mg/L	31.8	13.2	19.0	98.3	70 - 130	X508065 - X5B0190-03	19-Feb-25	
EPA 200.7	Vanadium	mg/L	0.972	<0.0050	1.00	96.9	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Vanadium	mg/L	0.980	<0.0050	1.00	98.0	70 - 130	X508065 - X5B0190-03	19-Feb-25	
EPA 200.7	Zinc	mg/L	0.955	<0.0100	1.00	95.5	70 - 130	X508065 - X5B0110-01	19-Feb-25	
EPA 200.7	Zinc	mg/L	1.95	1.05	1.00	90.3	70 - 130	X508065 - X5B0190-03	19-Feb-25	
EPA 200.8	Antimony	mg/L	0.0281	<0.00100	0.0250	113	70 - 130	X507135 - X5B0054-01	20-Feb-25	
EPA 200.8	Antimony	mg/L	0.0275	<0.00100	0.0250	110	70 - 130	X507135 - X5B0126-01	20-Feb-25	
EPA 200.8	Arsenic	mg/L	0.0325	0.00338	0.0250	116	70 - 130	X507135 - X5B0054-01	20-Feb-25	
EPA 200.8	Arsenic	mg/L	0.0280	<0.00100	0.0250	109	70 - 130	X507135 - X5B0126-01	20-Feb-25	
EPA 200.8	Selenium	mg/L	0.0346	0.00198	0.0250	130	70 - 130	X507135 - X5B0054-01	20-Feb-25	
EPA 200.8	Selenium	mg/L	0.0297	<0.00100	0.0250	119	70 - 130	X507135 - X5B0126-01	20-Feb-25	
EPA 200.8	Thallium	mg/L	0.0279	<0.000200	0.0250	111	70 - 130	X507135 - X5B0054-01	20-Feb-25	
EPA 200.8	Thallium	mg/L	0.0252	<0.000200	0.0250	101	70 - 130	X507135 - X5B0126-01	20-Feb-25	
EPA 200.8	Uranium	mg/L	0.0341	0.00467	0.0250	118	70 - 130	X507135 - X5B0054-01	20-Feb-25	
EPA 200.8	Uranium	mg/L	0.0311	0.00354	0.0250	110	70 - 130	X507135 - X5B0126-01	20-Feb-25	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00204	<0.000200	0.00200	102	70 - 130	X508025 - X5B0110-01	24-Feb-25	
EPA 245.1	Mercury	mg/L	0.00206	<0.000200	0.00200	103	70 - 130	X508025 - X5B0158-01	24-Feb-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.110	<0.0050	0.100	110	79 - 121	X508071 - X5B0110-01	19-Feb-25	
EPA 335.4	Cyanide (total)	mg/L	0.103	<0.0050	0.100	103	90 - 110	X508100 - X5B0110-01	20-Feb-25	
EPA 335.4	Cyanide (total)	mg/L	0.103	<0.0050	0.100	103	90 - 110	X508100 - X5B0110-02	20-Feb-25	
EPA 350.1	Ammonia as N	mg/L	1.71	0.808	1.00	90.6	90 - 110	X508004 - X5B0128-10	18-Feb-25	
EPA 350.1	Ammonia as N	mg/L	1.75	0.829	1.00	92.5	90 - 110	X508004 - X5B0128-09	18-Feb-25	
OIA 1677	Cyanide (WAD)	mg/L	0.107	<0.0050	0.100	107	82 - 118	X509003 - X5B0126-01	24-Feb-25	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	18.1	15.0	3.00	103	90 - 110	X507094 - X5B0105-01	12-Feb-25	
EPA 300.0	Chloride	mg/L	18.3	15.0	3.00	107	90 - 110	X507094 - X5B0106-03	12-Feb-25	
EPA 300.0	Fluoride	mg/L	2.21	0.139	2.00	103	90 - 110	X507094 - X5B0105-01	12-Feb-25	
EPA 300.0	Fluoride	mg/L	2.20	0.137	2.00	103	90 - 110	X507094 - X5B0106-03	12-Feb-25	
EPA 300.0	Nitrate as N	mg/L	14.9	13.1	2.00	0.30R>S	90 - 110	X507094 - X5B0105-01	12-Feb-25	M4
EPA 300.0	Nitrate as N	mg/L	14.7	12.9	2.00	91.9	90 - 110	X507094 - X5B0106-03	12-Feb-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	17.1	13.2	4.00	97.2	90 - 110	X507094 - X5B0105-01	12-Feb-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	16.9	12.9	4.00	100	90 - 110	X507094 - X5B0106-03	12-Feb-25	
EPA 300.0	Nitrite as N	mg/L	2.23	0.066	2.00	108	90 - 110	X507094 - X5B0105-01	12-Feb-25	
EPA 300.0	Nitrite as N	mg/L	2.21	0.054	2.00	108	90 - 110	X507094 - X5B0106-03	12-Feb-25	
EPA 300.0	Sulfate as SO4	mg/L	140	131	10.0	94.6	90 - 110	X507094 - X5B0105-01	12-Feb-25	

SVL holds the following certifications:

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

Work order Report Page 7 of 10

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0127**

Reported: 26-Feb-25 12:42

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Anions by Ion Chromatography (Continued)										
EPA 300.0	Sulfate as SO ₄	mg/L	140	131	10.0	92.2	90 - 110	X507094 - X5B0106-03	12-Feb-25	

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	mg/L	31.9	31.6	20.0	0.8	20	98	X508045 - X5B0150-03	
EPA 200.7	Magnesium	mg/L	19.9	19.7	20.0	1.0	20	96.6	X508045 - X5B0150-03	
EPA 200.7	Potassium	mg/L	20.0	19.9	20.0	0.4	20	97.1	X508045 - X5B0150-03	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.966	0.963	1.00	0.3	20	96.6	X508065 - X5B0110-01	
EPA 200.7	Barium	mg/L	1.04	1.03	1.00	0.3	20	100	X508065 - X5B0110-01	
EPA 200.7	Beryllium	mg/L	0.977	0.952	1.00	2.6	20	97.7	X508065 - X5B0110-01	
EPA 200.7	Boron	mg/L	1.03	1.03	1.00	0.4	20	99.9	X508065 - X5B0110-01	
EPA 200.7	Cadmium	mg/L	0.980	0.949	1.00	3.2	20	98.0	X508065 - X5B0110-01	
EPA 200.7	Calcium	mg/L	62.3	62.6	20.0	0.4	20	98.0	X508065 - X5B0110-01	
EPA 200.7	Chromium	mg/L	0.995	0.974	1.00	2.1	20	99.5	X508065 - X5B0110-01	
EPA 200.7	Cobalt	mg/L	0.952	0.923	1.00	3.0	20	95.2	X508065 - X5B0110-01	
EPA 200.7	Copper	mg/L	0.962	0.944	1.00	2.0	20	96.2	X508065 - X5B0110-01	
EPA 200.7	Iron	mg/L	9.99	9.94	10.0	0.5	20	99.9	X508065 - X5B0110-01	
EPA 200.7	Lead	mg/L	0.975	0.942	1.00	3.4	20	97.5	X508065 - X5B0110-01	
EPA 200.7	Lithium	mg/L	1.01	1.01	1.00	0.1	20	101	X508065 - X5B0110-01	
EPA 200.7	Magnesium	mg/L	29.5	29.6	20.0	0.4	20	98.6	X508065 - X5B0110-01	
EPA 200.7	Manganese	mg/L	0.989	0.970	1.00	1.9	20	97.8	X508065 - X5B0110-01	
EPA 200.7	Molybdenum	mg/L	0.997	0.967	1.00	3.1	20	99.7	X508065 - X5B0110-01	
EPA 200.7	Nickel	mg/L	0.956	0.929	1.00	3.0	20	95.6	X508065 - X5B0110-01	
EPA 200.7	Potassium	mg/L	22.2	22.1	20.0	0.5	20	98.9	X508065 - X5B0110-01	
EPA 200.7	Silver	mg/L	0.0489	0.0488	0.0500	0.1	20	97.7	X508065 - X5B0110-01	
EPA 200.7	Sodium	mg/L	46.4	46.5	19.0	0.1	20	96.8	X508065 - X5B0110-01	
EPA 200.7	Vanadium	mg/L	0.998	0.972	1.00	2.6	20	99.4	X508065 - X5B0110-01	
EPA 200.7	Zinc	mg/L	0.986	0.955	1.00	3.2	20	98.6	X508065 - X5B0110-01	
EPA 200.8	Antimony	mg/L	0.0296	0.0281	0.0250	5.0	20	118	X507135 - X5B0054-01	
EPA 200.8	Arsenic	mg/L	0.0330	0.0325	0.0250	1.7	20	119	X507135 - X5B0054-01	
EPA 200.8	Selenium	mg/L	0.0363	0.0346	0.0250	4.9	20	137	X507135 - X5B0054-01	M1
EPA 200.8	Thallium	mg/L	0.0296	0.0279	0.0250	6.0	20	118	X507135 - X5B0054-01	
EPA 200.8	Uranium	mg/L	0.0352	0.0341	0.0250	3.1	20	122	X507135 - X5B0054-01	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00205	0.00204	0.00200	0.7	20	103	X508025 - X5B0110-01	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.111	0.110	0.100	0.9	11	111	X508071 - X5B0110-01	
EPA 335.4	Cyanide (total)	mg/L	0.104	0.103	0.100	1.4	20	104	X508100 - X5B0110-01	
EPA 350.1	Ammonia as N	mg/L	1.70	1.71	1.00	0.7	20	89.3	X508004 - X5B0128-10	M2
OIA 1677	Cyanide (WAD)	mg/L	0.113	0.107	0.100	5.4	11	113	X509003 - X5B0126-01	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	17.8	18.1	3.00	1.7	20	92.6	X507094 - X5B0105-01	
EPA 300.0	Fluoride	mg/L	2.19	2.21	2.00	0.7	20	103	X507094 - X5B0105-01	
EPA 300.0	Nitrate as N	mg/L	14.6	14.9	2.00	1.8	20	0.30R>S	X507094 - X5B0105-01	M4
EPA 300.0	Nitrate+Nitrite as N	mg/L	16.8	17.1	4.00	1.5	20	90.7	X507094 - X5B0105-01	
EPA 300.0	Nitrite as N	mg/L	2.23	2.23	2.00	0.1	20	108	X507094 - X5B0105-01	



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Newmont - Cripple Creek & Victor					Project Name: Cripple Creek/Victor Water and Soil 2024				
Post Office Box 191					Work Order: X5B0127				
Victor, CO 80860					Reported: 26-Feb-25 12:42				

Quality Control - MATRIX SPIKE DUPLICATE Data				(Continued)						
Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Anions by Ion Chromatography (Continued)										
EPA 300.0	Sulfate as SO4	mg/L	140	140	10.0	0.1	20	92.6	X507094 - X5B0105-01	



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

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0127**

Reported: 26-Feb-25 12:42

Notes and Definitions

D11	Due to sample color, a sample dilution was performed to minimize spectral interference.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable



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

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0200**

Reported: 06-Mar-25 15:07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-7B	X5B0200-01	Ground Water	18-Feb-25 12:42	JC	19-Feb-2025	
GVMW-37A	X5B0200-02	Ground Water	18-Feb-25 11:00	JC	19-Feb-2025	
GVMW-37B	X5B0200-03	Ground Water	18-Feb-25 10:14	JC	19-Feb-2025	

Sample preparation is defined by the client as per their Data Quality Objectives.

This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.

Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.

The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of SVL Analytical, Inc.

Case Narrative: X5B0200

The state of origin only accredits for drinking water analyses.

Samples treated with CdCO₃ before CN analysis for sulfide interference at client request.



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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5B0200**

Reported: 06-Mar-25 15:07

Client Sample ID: **GVMW-7B**

Sampled: 18-Feb-25 12:42

Received: 19-Feb-25

Sampled By: JC

SVL Sample ID: **X5B0200-01 (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	38.0	mg/L	0.100	0.069		X509018	NMS	02/26/25 11:54	
EPA 200.7	Magnesium	14.1	mg/L	0.500	0.090		X509018	NMS	02/26/25 11:54	
EPA 200.7	Potassium	0.95	mg/L	0.50	0.18		X509018	NMS	02/26/25 11:54	
SM 2340 B	Hardness (as CaCO3)	153	mg/L	2.31	0.543		N/A		03/04/25 09:13	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X509127	NMS	03/04/25 09:13	
EPA 200.7	Barium	0.0319	mg/L	0.0020	0.0019		X509127	NMS	03/04/25 09:13	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X509127	NMS	03/04/25 09:13	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X509127	NMS	03/04/25 09:13	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X509127	NMS	03/04/25 09:13	
EPA 200.7	Calcium	34.4	mg/L	0.100	0.069		X509127	NMS	03/04/25 09:13	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X509127	NMS	03/04/25 09:13	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X509127	NMS	03/04/25 09:13	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X509127	NMS	03/04/25 09:13	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X509127	NMS	03/04/25 09:13	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X509127	NMS	03/04/25 09:13	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X509127	NMS	03/04/25 09:13	
EPA 200.7	Magnesium	11.8	mg/L	0.500	0.090		X509127	NMS	03/04/25 09:13	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X509127	NMS	03/04/25 09:13	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X509127	NMS	03/04/25 09:13	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X509127	NMS	03/04/25 09:13	
EPA 200.7	Potassium	0.75	mg/L	0.50	0.18		X509127	NMS	03/04/25 09:13	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X509127	NMS	03/04/25 09:13	
EPA 200.7	Sodium	11.2	mg/L	0.50	0.12		X509127	NMS	03/04/25 09:13	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X509127	NMS	03/04/25 09:13	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X509127	NMS	03/04/25 09:13	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X508123	SMU	03/04/25 16:14	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X508123	SMU	03/04/25 16:14	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X508123	SMU	03/04/25 16:14	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X508123	SMU	03/04/25 16:14	
EPA 200.8	Uranium	0.000368	mg/L	0.000100	0.000052		X508123	SMU	03/04/25 16:14	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X509101	SJN	03/03/25 09:53	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X510020	DD	03/05/25 11:47	H1
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X508101	JPM	02/20/25 09:59	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X508128	JPM	02/21/25 11:27	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X509004	JPM	02/24/25 15:51	
SM 2310 B	Acidity to pH 8.3	-64.8	mg/L as CaCO3	10.0			X508184	MWD	02/24/25 08:55	
SM 2320 B	Total Alkalinity	61.7	mg/L as CaCO3	1.0			X508166	MWD	02/21/25 15:23	
SM 2320 B	Bicarbonate	61.7	mg/L as CaCO3	1.0			X508166	MWD	02/21/25 15:23	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X508166	MWD	02/21/25 15:23	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X508166	MWD	02/21/25 15:23	
SM 2540 C	Total Diss. Solids	219	mg/L	10			X508131	TJL	02/21/25 12:30	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X508132	TJL	02/21/25 12:20	
SM 4500 H B	pH @19.1°C	6.8	pH Units				X508166	MWD	02/21/25 15:23	H5

SVL holds the following certifications:

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

Work order Report Page 2 of 13



One Government Gulch - PO Box 929
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Newmont - Cripple Creek & Victor Post Office Box 191 Victor, CO 80860	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5B0200 Reported: 06-Mar-25 15:07
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Client Sample ID: **GVMW-7B**
SVL Sample ID: **X5B0200-01 (Ground Water)**

Sampled: 18-Feb-25 12:42
Received: 19-Feb-25
Sampled By: JC

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	12.5	mg/L	2.00	0.22	10	X507114	RS	02/19/25 22:04	
EPA 300.0	Fluoride	0.350	mg/L	0.100	0.017		X507114	RS	02/19/25 21:46	
EPA 300.0	Nitrate as N	0.822	mg/L	0.050	0.013		X507114	RS	02/19/25 21:46	
EPA 300.0	Nitrate+Nitrite as N	0.822	mg/L	0.100	0.044		X507114	RS	02/19/25 21:46	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X507114	RS	02/19/25 21:46	
EPA 300.0	Sulfate as SO4	87.4	mg/L	3.00	1.80	10	X507114	RS	02/19/25 22:04	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.21 meq/L	Anion Sum: 3.48 meq/L	C/A Balance: -4.11 %	Calculated TDS: 202	TDS/cTDS: 1.08
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This data has been reviewed for accuracy and has been authorized for release.

Kristi A. Groth

Kristi A. Groth
Project Manager



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Kellogg, ID 83837-0929

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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5B0200**

Reported: 06-Mar-25 15:07

Client Sample ID: **GVMW-37A**

Sampled: 18-Feb-25 11:00

Received: 19-Feb-25

Sampled By: JC

SVL Sample ID: **X5B0200-02 (Ground Water)**

Sample Report Page 1 of 2

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

EPA 200.7	Calcium	53.0	mg/L	0.100	0.069		X509018	NMS	02/26/25 11:58	
EPA 200.7	Magnesium	12.8	mg/L	0.500	0.090		X509018	NMS	02/26/25 11:58	
EPA 200.7	Potassium	3.47	mg/L	0.50	0.18		X509018	NMS	02/26/25 11:58	
SM 2340 B	Hardness (as CaCO3)	185	mg/L	2.31	0.543		N/A		03/04/25 09:16	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X509127	NMS	03/04/25 09:16	
EPA 200.7	Barium	0.0815	mg/L	0.0020	0.0019		X509127	NMS	03/04/25 09:16	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X509127	NMS	03/04/25 09:16	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X509127	NMS	03/04/25 09:16	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X509127	NMS	03/04/25 09:16	
EPA 200.7	Calcium	52.0	mg/L	0.100	0.069		X509127	NMS	03/04/25 09:16	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X509127	NMS	03/04/25 09:16	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X509127	NMS	03/04/25 09:16	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X509127	NMS	03/04/25 09:16	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X509127	NMS	03/04/25 09:16	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X509127	NMS	03/04/25 09:16	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X509127	NMS	03/04/25 09:16	
EPA 200.7	Magnesium	12.1	mg/L	0.500	0.090		X509127	NMS	03/04/25 09:16	
EPA 200.7	Manganese	0.0970	mg/L	0.0080	0.0034		X509127	NMS	03/04/25 09:16	
EPA 200.7	Molybdenum	0.0214	mg/L	0.0080	0.0034		X509127	NMS	03/04/25 09:16	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X509127	NMS	03/04/25 09:16	
EPA 200.7	Potassium	3.45	mg/L	0.50	0.18		X509127	NMS	03/04/25 09:16	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X509127	NMS	03/04/25 09:16	
EPA 200.7	Sodium	36.6	mg/L	0.50	0.12		X509127	NMS	03/04/25 09:16	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X509127	NMS	03/04/25 09:16	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X509127	NMS	03/04/25 09:16	
EPA 200.8	Antimony	0.00152	mg/L	0.00100	0.00072		X508123	SMU	03/04/25 16:24	
EPA 200.8	Arsenic	0.00198	mg/L	0.00100	0.00021		X508123	SMU	03/04/25 16:24	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X508123	SMU	03/04/25 16:24	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X508123	SMU	03/04/25 16:24	
EPA 200.8	Uranium	0.00314	mg/L	0.000100	0.000052		X508123	SMU	03/04/25 16:24	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X509101	SJN	03/03/25 09:55	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X510020	DD	03/05/25 11:49	H1
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X508101	JPM	02/20/25 10:02	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X508128	JPM	02/21/25 11:29	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X509004	JPM	02/24/25 15:53	
SM 2310 B	Acidity to pH 8.3	-74.1	mg/L as CaCO3	10.0			X508184	MWD	02/24/25 08:55	
SM 2320 B	Total Alkalinity	72.4	mg/L as CaCO3	1.0			X508166	MWD	02/21/25 15:37	
SM 2320 B	Bicarbonate	70.1	mg/L as CaCO3	1.0			X508166	MWD	02/21/25 15:37	
SM 2320 B	Carbonate	2.2	mg/L as CaCO3	1.0			X508166	MWD	02/21/25 15:37	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X508166	MWD	02/21/25 15:37	
SM 2540 C	Total Diss. Solids	369	mg/L	10			X508131	TJL	02/21/25 12:30	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X508132	TJL	02/21/25 12:20	
SM 4500 H B	pH @18.8°C	8.4	pH Units				X508166	MWD	02/21/25 15:37	H5

SVL holds the following certifications:

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

Work order Report Page 4 of 13



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Newmont - Cripple Creek & Victor Post Office Box 191 Victor, CO 80860	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5B0200 Reported: 06-Mar-25 15:07
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Client Sample ID: **GVMW-37A**
SVL Sample ID: **X5B0200-02 (Ground Water)**

Sampled: 18-Feb-25 11:00
Received: 19-Feb-25
Sampled By: JC

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	3.85	mg/L	0.20	0.02		X507114	RS	02/19/25 22:23	
EPA 300.0	Fluoride	1.42	mg/L	0.100	0.017		X507114	RS	02/19/25 22:23	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X507114	RS	02/19/25 22:23	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X507114	RS	02/19/25 22:23	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X507114	RS	02/19/25 22:23	
EPA 300.0	Sulfate as SO4	198	mg/L	3.00	1.80	10	X507114	RS	02/19/25 22:41	

Cation/Anion Balance and TDS Ratios

Cation Sum: 5.29 meq/L	Anion Sum: 5.76 meq/L	C/A Balance: -4.23 %	Calculated TDS: 352	TDS/cTDS: 1.05
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This data has been reviewed for accuracy and has been authorized for release.

Kristi A. Groth

Kristi A. Groth
Project Manager



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

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5B0200**

Reported: 06-Mar-25 15:07

Client Sample ID: **GVMW-37B**

Sampled: 18-Feb-25 10:14

Received: 19-Feb-25

Sampled By: JC

SVL Sample ID: **X5B0200-03 (Ground Water)**

Sample Report Page 1 of 2

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

EPA 200.7	Calcium	53.9	mg/L	0.100	0.069		X509018	NMS	02/26/25 12:02	
EPA 200.7	Magnesium	8.97	mg/L	0.500	0.090		X509018	NMS	02/26/25 12:02	
EPA 200.7	Potassium	1.22	mg/L	0.50	0.18		X509018	NMS	02/26/25 12:02	
SM 2340 B	Hardness (as CaCO3)	165	mg/L	2.31	0.543		N/A		02/26/25 12:02	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X509127	NMS	03/04/25 09:20	
EPA 200.7	Barium	0.0770	mg/L	0.0020	0.0019		X509127	NMS	03/04/25 09:20	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X509127	NMS	03/04/25 09:20	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X509127	NMS	03/04/25 09:20	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X509127	NMS	03/04/25 09:20	
EPA 200.7	Calcium	52.1	mg/L	0.100	0.069		X509127	NMS	03/04/25 09:20	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X509127	NMS	03/04/25 09:20	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X509127	NMS	03/04/25 09:20	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X509127	NMS	03/04/25 09:20	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X509127	NMS	03/04/25 09:20	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X509127	NMS	03/04/25 09:20	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X509127	NMS	03/04/25 09:20	
EPA 200.7	Magnesium	8.56	mg/L	0.500	0.090		X509127	NMS	03/04/25 09:20	
EPA 200.7	Manganese	0.0147	mg/L	0.0080	0.0034		X509127	NMS	03/04/25 09:20	
EPA 200.7	Molybdenum	0.0100	mg/L	0.0080	0.0034		X509127	NMS	03/04/25 09:20	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X509127	NMS	03/04/25 09:20	
EPA 200.7	Potassium	1.16	mg/L	0.50	0.18		X509127	NMS	03/04/25 09:20	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X509127	NMS	03/04/25 09:20	
EPA 200.7	Sodium	29.9	mg/L	0.50	0.12		X509127	NMS	03/04/25 09:20	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X509127	NMS	03/04/25 09:20	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X509127	NMS	03/04/25 09:20	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X508123	SMU	03/04/25 16:27	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X508123	SMU	03/04/25 16:27	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X508123	SMU	03/04/25 16:27	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X508123	SMU	03/04/25 16:27	
EPA 200.8	Uranium	0.00259	mg/L	0.000100	0.000052		X508123	SMU	03/04/25 16:27	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X509101	SJN	03/03/25 10:02	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X510020	DD	03/05/25 11:51	H1
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X508101	JPM	02/20/25 10:14	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X508128	JPM	02/21/25 11:40	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X509004	JPM	02/24/25 15:54	
SM 2310 B	Acidity to pH 8.3	-111	mg/L as CaCO3	10.0			X508184	MWD	02/24/25 08:55	
SM 2320 B	Total Alkalinity	111	mg/L as CaCO3	1.0			X508166	MWD	02/21/25 15:44	
SM 2320 B	Bicarbonate	111	mg/L as CaCO3	1.0			X508166	MWD	02/21/25 15:44	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X508166	MWD	02/21/25 15:44	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X508166	MWD	02/21/25 15:44	
SM 2540 C	Total Diss. Solids	308	mg/L	10			X508131	TJL	02/21/25 12:30	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X508132	TJL	02/21/25 12:20	
SM 4500 H B	pH @18.8°C	7.8	pH Units				X508166	MWD	02/21/25 15:44	H5

SVL holds the following certifications:

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

Work order Report Page 6 of 13



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	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5B0200 Reported: 06-Mar-25 15:07
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Client Sample ID: **GVMW-37B**
SVL Sample ID: **X5B0200-03 (Ground Water)**

Sampled: 18-Feb-25 10:14
Received: 19-Feb-25
Sampled By: JC

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	4.07	mg/L	0.20	0.02		X507114	RS	02/19/25 23:36	
EPA 300.0	Fluoride	1.96	mg/L	0.100	0.017		X507114	RS	02/19/25 23:36	
EPA 300.0	Nitrate as N	1.17	mg/L	0.050	0.013		X507114	RS	02/19/25 23:36	
EPA 300.0	Nitrate+Nitrite as N	1.19	mg/L	0.100	0.044		X507114	RS	02/19/25 23:36	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X507114	RS	02/19/25 23:36	
EPA 300.0	Sulfate as SO4	113	mg/L	3.00	1.80	10	X507114	RS	02/19/25 23:55	

Cation/Anion Balance and TDS Ratios										
Cation Sum: 4.65 meq/L		Anion Sum: 4.87 meq/L		C/A Balance: -2.36 %		Calculated TDS: 284		TDS/cTDS: 1.09		

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

Kristi A. Groth

Kristi A. Groth
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

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0200**

Reported: 06-Mar-25 15:07

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X509018	26-Feb-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X509018	26-Feb-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X509018	26-Feb-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X509127	04-Mar-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X509127	04-Mar-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X509127	04-Mar-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X509127	04-Mar-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X509127	04-Mar-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X509127	04-Mar-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X509127	04-Mar-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X509127	04-Mar-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X509127	04-Mar-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X509127	04-Mar-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X509127	05-Mar-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X509127	04-Mar-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X509127	04-Mar-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X509127	04-Mar-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X509127	04-Mar-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X509127	04-Mar-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X509127	04-Mar-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X509127	04-Mar-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X509127	04-Mar-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X509127	04-Mar-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X509127	04-Mar-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X508123	04-Mar-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X508123	04-Mar-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X508123	04-Mar-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X508123	04-Mar-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X508123	04-Mar-25	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X509101	03-Mar-25	
Classical Chemistry Parameters								
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X510020	05-Mar-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X508101	20-Feb-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X508128	21-Feb-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X509004	24-Feb-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X508184	24-Feb-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X508166	21-Feb-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X508166	21-Feb-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X508166	21-Feb-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X508166	21-Feb-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X508131	21-Feb-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X508132	21-Feb-25	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X507114	19-Feb-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X507114	19-Feb-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X507114	19-Feb-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X507114	19-Feb-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X507114	19-Feb-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X507114	19-Feb-25	

SVL holds the following certifications:

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

Work order Report Page 8 of 13



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

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5B0200**

Reported: 06-Mar-25 15:07

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	mg/L	20.4	20.0	102	85 - 115	X509018	26-Feb-25	
EPA 200.7	Magnesium	mg/L	20.6	20.0	103	85 - 115	X509018	26-Feb-25	
EPA 200.7	Potassium	mg/L	20.1	20.0	100	85 - 115	X509018	26-Feb-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.960	1.00	96.0	85 - 115	X509127	04-Mar-25	
EPA 200.7	Barium	mg/L	0.999	1.00	99.9	85 - 115	X509127	04-Mar-25	
EPA 200.7	Beryllium	mg/L	0.973	1.00	97.3	85 - 115	X509127	04-Mar-25	
EPA 200.7	Boron	mg/L	0.992	1.00	99.2	85 - 115	X509127	04-Mar-25	
EPA 200.7	Cadmium	mg/L	0.974	1.00	97.4	85 - 115	X509127	04-Mar-25	
EPA 200.7	Calcium	mg/L	19.3	20.0	96.4	85 - 115	X509127	04-Mar-25	
EPA 200.7	Chromium	mg/L	0.991	1.00	99.1	85 - 115	X509127	04-Mar-25	
EPA 200.7	Cobalt	mg/L	0.953	1.00	95.3	85 - 115	X509127	04-Mar-25	
EPA 200.7	Copper	mg/L	0.969	1.00	96.9	85 - 115	X509127	04-Mar-25	
EPA 200.7	Iron	mg/L	9.97	10.0	99.7	85 - 115	X509127	04-Mar-25	
EPA 200.7	Lead	mg/L	0.974	1.00	97.4	85 - 115	X509127	04-Mar-25	
EPA 200.7	Lithium	mg/L	0.962	1.00	96.2	85 - 115	X509127	04-Mar-25	
EPA 200.7	Magnesium	mg/L	18.9	20.0	94.4	85 - 115	X509127	04-Mar-25	
EPA 200.7	Manganese	mg/L	0.982	1.00	98.2	85 - 115	X509127	04-Mar-25	
EPA 200.7	Molybdenum	mg/L	0.990	1.00	99.0	85 - 115	X509127	04-Mar-25	
EPA 200.7	Nickel	mg/L	0.955	1.00	95.5	85 - 115	X509127	04-Mar-25	
EPA 200.7	Potassium	mg/L	19.7	20.0	98.5	85 - 115	X509127	04-Mar-25	
EPA 200.7	Silver	mg/L	0.0496	0.0500	99.3	85 - 115	X509127	04-Mar-25	
EPA 200.7	Sodium	mg/L	18.6	19.0	98.0	85 - 115	X509127	04-Mar-25	
EPA 200.7	Vanadium	mg/L	0.998	1.00	99.8	85 - 115	X509127	04-Mar-25	
EPA 200.7	Zinc	mg/L	0.970	1.00	97.0	85 - 115	X509127	04-Mar-25	
EPA 200.8	Antimony	mg/L	0.0238	0.0250	95.4	85 - 115	X508123	04-Mar-25	
EPA 200.8	Arsenic	mg/L	0.0243	0.0250	97.1	85 - 115	X508123	04-Mar-25	
EPA 200.8	Selenium	mg/L	0.0238	0.0250	95.1	85 - 115	X508123	04-Mar-25	
EPA 200.8	Thallium	mg/L	0.0239	0.0250	95.6	85 - 115	X508123	04-Mar-25	
EPA 200.8	Uranium	mg/L	0.0237	0.0250	94.9	85 - 115	X508123	04-Mar-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00198	0.00200	98.9	85 - 115	X509101	03-Mar-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.106	0.100	106	90 - 110	X510020	05-Mar-25	
EPA 335.4	Cyanide (total)	mg/L	0.102	0.100	102	90 - 110	X508101	20-Feb-25	
EPA 350.1	Ammonia as N	mg/L	0.989	1.00	98.9	90 - 110	X508128	21-Feb-25	
OIA 1677	Cyanide (WAD)	mg/L	0.0946	0.100	94.6	90 - 110	X509004	24-Feb-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	724	706	102	95.4 - 104	X508184	24-Feb-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.0	9.93	101	94 - 106	X508166	21-Feb-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	101	94 - 106	X508166	21-Feb-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	415	397	105	94 - 106	X508166	21-Feb-25	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X508132	21-Feb-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	2.96	3.00	98.5	90 - 110	X507114	19-Feb-25	
EPA 300.0	Fluoride	mg/L	2.01	2.00	101	90 - 110	X507114	19-Feb-25	
EPA 300.0	Nitrate as N	mg/L	1.95	2.00	97.5	90 - 110	X507114	19-Feb-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.56	4.50	101	90 - 110	X507114	19-Feb-25	
EPA 300.0	Nitrite as N	mg/L	2.61	2.50	104	90 - 110	X507114	19-Feb-25	
EPA 300.0	Sulfate as SO4	mg/L	10.0	10.0	100	90 - 110	X507114	19-Feb-25	

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0200**

Reported: 06-Mar-25 15:07

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO ₃	<10.0	<10.0	UDL	20	X508184 - X5B0152-01	24-Feb-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	180	181	0.8	20	X508166 - X5B0167-01	21-Feb-25	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	180	181	0.8	20	X508166 - X5B0167-01	21-Feb-25	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X508166 - X5B0167-01	21-Feb-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X508166 - X5B0167-01	21-Feb-25	
SM 2540 C	Total Diss. Solids	mg/L	368	369	0.3	10	X508131 - X5B0200-02	21-Feb-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X508132 - X5B0200-02	21-Feb-25	
SM 2540 D	Total Susp. Solids	mg/L	5.0	5.0	0.0	10	X508132 - X5B0213-02	21-Feb-25	
SM 4500 H B	pH @19.1°C	pH Units	7.6	7.7	1.1	20	X508166 - X5B0167-01	21-Feb-25	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	40.0	20.1	20.0	99	70 - 130	X509018 - X5B0199-01	26-Feb-25	
EPA 200.7	Calcium	mg/L	48.9	29.3	20.0	98	70 - 130	X509018 - X5B0215-04	26-Feb-25	
EPA 200.7	Magnesium	mg/L	22.3	2.23	20.0	100	70 - 130	X509018 - X5B0199-01	26-Feb-25	
EPA 200.7	Magnesium	mg/L	28.1	8.19	20.0	99.5	70 - 130	X509018 - X5B0215-04	26-Feb-25	
EPA 200.7	Potassium	mg/L	20.8	0.94	20.0	99.5	70 - 130	X509018 - X5B0199-01	26-Feb-25	
EPA 200.7	Potassium	mg/L	22.2	2.43	20.0	98.9	70 - 130	X509018 - X5B0215-04	26-Feb-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.955	<0.080	1.00	95.5	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Aluminum	mg/L	1.01	<0.080	1.00	101	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Barium	mg/L	1.03	0.0319	1.00	99.3	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Barium	mg/L	1.12	0.0770	1.00	104	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Beryllium	mg/L	0.972	<0.00200	1.00	97.2	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Beryllium	mg/L	1.02	<0.00200	1.00	102	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Boron	mg/L	1.01	<0.0400	1.00	101	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Boron	mg/L	1.07	<0.0400	1.00	105	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Cadmium	mg/L	0.989	<0.0020	1.00	98.9	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Cadmium	mg/L	1.02	<0.0020	1.00	102	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Calcium	mg/L	53.0	34.4	20.0	93.3	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Calcium	mg/L	72.2	52.1	20.0	100	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Chromium	mg/L	1.00	<0.0060	1.00	100	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Chromium	mg/L	1.04	<0.0060	1.00	104	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Cobalt	mg/L	0.957	<0.0060	1.00	95.7	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Cobalt	mg/L	0.993	<0.0060	1.00	99.3	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Copper	mg/L	0.959	<0.0100	1.00	95.9	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Copper	mg/L	1.00	<0.0100	1.00	100	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Iron	mg/L	9.88	<0.100	10.0	98.8	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Iron	mg/L	10.5	<0.100	10.0	105	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Lead	mg/L	0.993	<0.0075	1.00	99.3	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Lead	mg/L	1.02	<0.0075	1.00	102	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Lithium	mg/L	0.990	<0.040	1.00	99.0	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Lithium	mg/L	1.06	<0.040	1.00	106	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Magnesium	mg/L	31.4	11.8	20.0	97.8	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Magnesium	mg/L	29.2	8.56	20.0	103	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Manganese	mg/L	0.994	<0.0080	1.00	98.7	70 - 130	X509127 - X5B0200-01	04-Mar-25	

SVL holds the following certifications:

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

Work order Report Page 10 of 13



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

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X5B0200**
Reported: 06-Mar-25 15:07

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
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Metals (Dissolved) (Continued)

EPA 200.7	Manganese	mg/L	1.04	0.0147	1.00	103	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Molybdenum	mg/L	1.00	<0.0080	1.00	100	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Molybdenum	mg/L	1.05	0.0100	1.00	104	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Nickel	mg/L	0.959	<0.0100	1.00	95.9	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Nickel	mg/L	0.998	<0.0100	1.00	99.2	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Potassium	mg/L	20.3	0.75	20.0	97.7	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Potassium	mg/L	21.9	1.16	20.0	104	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Silver	mg/L	0.0494	<0.0050	0.0500	98.8	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Silver	mg/L	0.0522	<0.0050	0.0500	104	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Sodium	mg/L	29.3	11.2	19.0	95.4	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Sodium	mg/L	49.2	29.9	19.0	101	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Vanadium	mg/L	1.01	<0.0050	1.00	101	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Vanadium	mg/L	1.05	<0.0050	1.00	105	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Zinc	mg/L	0.996	<0.0100	1.00	99.6	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Zinc	mg/L	1.03	<0.0100	1.00	103	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.8	Antimony	mg/L	0.0242	<0.00100	0.0250	96.6	70 - 130	X508123 - X5B0199-01	04-Mar-25	
EPA 200.8	Antimony	mg/L	0.0272	0.00251	0.0250	98.7	70 - 130	X508123 - X5B0215-04	04-Mar-25	
EPA 200.8	Arsenic	mg/L	0.0251	<0.00100	0.0250	100	70 - 130	X508123 - X5B0199-01	04-Mar-25	
EPA 200.8	Arsenic	mg/L	0.0252	<0.00100	0.0250	99.6	70 - 130	X508123 - X5B0215-04	04-Mar-25	
EPA 200.8	Selenium	mg/L	0.0237	<0.00100	0.0250	94.7	70 - 130	X508123 - X5B0199-01	04-Mar-25	
EPA 200.8	Selenium	mg/L	0.0251	<0.00100	0.0250	100	70 - 130	X508123 - X5B0215-04	04-Mar-25	
EPA 200.8	Thallium	mg/L	0.0244	<0.000200	0.0250	97.4	70 - 130	X508123 - X5B0199-01	04-Mar-25	
EPA 200.8	Thallium	mg/L	0.0237	<0.000200	0.0250	94.9	70 - 130	X508123 - X5B0215-04	04-Mar-25	
EPA 200.8	Uranium	mg/L	0.0240	<0.000100	0.0250	95.9	70 - 130	X508123 - X5B0199-01	04-Mar-25	
EPA 200.8	Uranium	mg/L	0.0238	0.000259	0.0250	94.1	70 - 130	X508123 - X5B0215-04	04-Mar-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00200	<0.000200	0.00200	100	70 - 130	X509101 - X5B0190-01	03-Mar-25	
EPA 245.1	Mercury	mg/L	0.00207	<0.000200	0.00200	104	70 - 130	X509101 - X5B0222-01	03-Mar-25	

Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.114	<0.0050	0.100	114	79 - 121	X510020 - X5B0337-04	05-Mar-25	
EPA 335.4	Cyanide (total)	mg/L	0.101	<0.0050	0.100	101	90 - 110	X508101 - X5B0167-01	20-Feb-25	
EPA 350.1	Ammonia as N	mg/L	1.12	0.058	1.00	107	90 - 110	X508128 - X5B0190-02	21-Feb-25	
EPA 350.1	Ammonia as N	mg/L	1.04	<0.030	1.00	102	90 - 110	X508128 - X5B0190-01	21-Feb-25	
OIA 1677	Cyanide (WAD)	mg/L	0.0901	<0.0050	0.100	90.1	82 - 118	X509004 - X5B0190-02	24-Feb-25	R4

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.06	<0.20	3.00	102	90 - 110	X507114 - X5B0194-05	19-Feb-25	R13
EPA 300.0	Chloride	mg/L	3.58	<0.20	3.00	119	90 - 110	X507114 - X5B0194-06	19-Feb-25	M1
EPA 300.0	Fluoride	mg/L	2.09	<0.100	2.00	104	90 - 110	X507114 - X5B0194-05	19-Feb-25	
EPA 300.0	Fluoride	mg/L	1.62	<0.100	2.00	81.1	90 - 110	X507114 - X5B0194-06	19-Feb-25	M2
EPA 300.0	Nitrate as N	mg/L	2.03	<0.050	2.00	101	90 - 110	X507114 - X5B0194-05	19-Feb-25	R13
EPA 300.0	Nitrate as N	mg/L	1.71	<0.050	2.00	85.7	90 - 110	X507114 - X5B0194-06	19-Feb-25	M2
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.13	<0.100	4.00	103	90 - 110	X507114 - X5B0194-05	19-Feb-25	R13
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.38	<0.100	4.00	84.4	90 - 110	X507114 - X5B0194-06	19-Feb-25	M2
EPA 300.0	Nitrite as N	mg/L	2.10	<0.050	2.00	105	90 - 110	X507114 - X5B0194-05	19-Feb-25	
EPA 300.0	Nitrite as N	mg/L	1.66	<0.050	2.00	83.2	90 - 110	X507114 - X5B0194-06	19-Feb-25	M2
EPA 300.0	Sulfate as SO4	mg/L	10.4	<0.30	10.0	104	90 - 110	X507114 - X5B0194-05	19-Feb-25	R13
EPA 300.0	Sulfate as SO4	mg/L	9.09	<0.30	10.0	90.9	90 - 110	X507114 - X5B0194-06	19-Feb-25	

SVL holds the following certifications:

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

Work order Report Page 11 of 13



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

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5B0200**

Reported: 06-Mar-25 15:07

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	mg/L	40.6	40.0	20.0	1.0	20	102	X509018 - X5B0199-01	
EPA 200.7	Magnesium	mg/L	22.6	22.3	20.0	1.6	20	102	X509018 - X5B0199-01	
EPA 200.7	Potassium	mg/L	21.2	20.8	20.0	1.7	20	101	X509018 - X5B0199-01	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.963	0.955	1.00	0.8	20	96.3	X509127 - X5B0200-01	
EPA 200.7	Barium	mg/L	1.03	1.03	1.00	0.7	20	100	X509127 - X5B0200-01	
EPA 200.7	Beryllium	mg/L	0.960	0.972	1.00	1.2	20	96.0	X509127 - X5B0200-01	
EPA 200.7	Boron	mg/L	1.01	1.01	1.00	0.2	20	101	X509127 - X5B0200-01	
EPA 200.7	Cadmium	mg/L	0.970	0.989	1.00	2.0	20	97.0	X509127 - X5B0200-01	
EPA 200.7	Calcium	mg/L	53.4	53.0	20.0	0.6	20	94.9	X509127 - X5B0200-01	
EPA 200.7	Chromium	mg/L	0.996	1.00	1.00	0.4	20	99.6	X509127 - X5B0200-01	
EPA 200.7	Cobalt	mg/L	0.936	0.957	1.00	2.2	20	93.6	X509127 - X5B0200-01	
EPA 200.7	Copper	mg/L	0.955	0.959	1.00	0.4	20	95.5	X509127 - X5B0200-01	
EPA 200.7	Iron	mg/L	10.0	9.88	10.0	1.2	20	100	X509127 - X5B0200-01	
EPA 200.7	Lead	mg/L	0.971	0.993	1.00	2.2	20	97.1	X509127 - X5B0200-01	
EPA 200.7	Lithium	mg/L	0.988	0.990	1.00	0.2	20	98.8	X509127 - X5B0200-01	
EPA 200.7	Magnesium	mg/L	31.3	31.4	20.0	0.2	20	97.5	X509127 - X5B0200-01	
EPA 200.7	Manganese	mg/L	0.985	0.994	1.00	0.9	20	97.8	X509127 - X5B0200-01	
EPA 200.7	Molybdenum	mg/L	0.985	1.00	1.00	1.7	20	98.5	X509127 - X5B0200-01	
EPA 200.7	Nickel	mg/L	0.941	0.959	1.00	1.9	20	94.1	X509127 - X5B0200-01	
EPA 200.7	Potassium	mg/L	20.5	20.3	20.0	0.8	20	98.6	X509127 - X5B0200-01	
EPA 200.7	Silver	mg/L	0.0501	0.0494	0.0500	1.5	20	100	X509127 - X5B0200-01	
EPA 200.7	Sodium	mg/L	29.5	29.3	19.0	0.5	20	96.1	X509127 - X5B0200-01	
EPA 200.7	Vanadium	mg/L	1.00	1.01	1.00	0.9	20	100	X509127 - X5B0200-01	
EPA 200.7	Zinc	mg/L	0.981	0.996	1.00	1.6	20	98.1	X509127 - X5B0200-01	
EPA 200.8	Antimony	mg/L	0.0247	0.0242	0.0250	2.4	20	99.0	X508123 - X5B0199-01	
EPA 200.8	Arsenic	mg/L	0.0236	0.0251	0.0250	6.0	20	94.4	X508123 - X5B0199-01	
EPA 200.8	Selenium	mg/L	0.0231	0.0237	0.0250	2.4	20	92.4	X508123 - X5B0199-01	
EPA 200.8	Thallium	mg/L	0.0240	0.0244	0.0250	1.7	20	95.8	X508123 - X5B0199-01	
EPA 200.8	Uranium	mg/L	0.0238	0.0240	0.0250	1.1	20	94.9	X508123 - X5B0199-01	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00221	0.00200	0.00200	10.1	20	111	X509101 - X5B0190-01	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.114	0.114	0.100	0.4	11	114	X510020 - X5B0337-04	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.101	0.100	2.1	20	103	X508101 - X5B0167-01	
EPA 350.1	Ammonia as N	mg/L	1.02	1.12	1.00	9.3	20	96.5	X508128 - X5B0190-02	
OIA 1677	Cyanide (WAD)	mg/L	0.117	0.0901	0.100	25.6	11	117	X509004 - X5B0190-02	R4

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	5.57	3.06	3.00	58.2	20	186	X507114 - X5B0194-05	M1,R13
EPA 300.0	Fluoride	mg/L	2.00	2.09	2.00	4.4	20	99.9	X507114 - X5B0194-05	
EPA 300.0	Nitrate as N	mg/L	3.60	2.03	2.00	56.0	20	180	X507114 - X5B0194-05	M1,R13
EPA 300.0	Nitrate+Nitrite as N	mg/L	5.72	4.13	4.00	32.3	20	143	X507114 - X5B0194-05	M1,R13
EPA 300.0	Nitrite as N	mg/L	2.11	2.10	2.00	0.7	20	106	X507114 - X5B0194-05	
EPA 300.0	Sulfate as SO4	mg/L	15.7	10.4	10.0	40.6	20	157	X507114 - X5B0194-05	M1,R13



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

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0200**

Reported: 06-Mar-25 15:07

Notes and Definitions

H1	Sample analysis performed past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
R13	MS/MSD RPD exceeded method acceptance limit. Matrix spike recovery was outside acceptance criteria. Batch precision and accuracy were demonstrated.
R4	MS/MSD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable



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Kellogg, ID 83837-0929

(208) 784-1258

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

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0222**

Reported: 06-Mar-25 15:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-33	X5B0222-01	Ground Water	19-Feb-25 11:29	TR	20-Feb-2025	Q5
GVMW-34	X5B0222-02	Ground Water	19-Feb-25 11:40	TR	20-Feb-2025	
GVMW-35B	X5B0222-03	Ground Water	19-Feb-25 11:51	TR	20-Feb-2025	
GVMW-36	X5B0222-04	Ground Water	19-Feb-25 12:03	TR	20-Feb-2025	Q5

Sample preparation is defined by the client as per their Data Quality Objectives.

This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.

Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.

The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of SVL Analytical, Inc.

Case Narrative: X5B0222

The state of origin only accredits for drinking water analyses.

Samples treated with CdCO₃ before CN analysis for sulfide interference at client request.



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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5B0222**

Reported: 06-Mar-25 15:21

Client Sample ID: **GVMW-33**

Sampled: 19-Feb-25 11:29

Received: 20-Feb-25

Sampled By: TR

SVL Sample ID: **X5B0222-01 (Ground Water)**

Sample Report Page 1 of 2

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

EPA 200.7	Calcium	425	mg/L	0.100	0.069		X509019	NMS	02/26/25 14:05	M3
EPA 200.7	Magnesium	312	mg/L	0.500	0.090		X509019	NMS	02/26/25 14:05	
EPA 200.7	Potassium	8.28	mg/L	0.50	0.18		X509019	NMS	02/26/25 14:05	
SM 2340 B	Hardness (as CaCO3)	2400	mg/L	2.31	0.543		N/A		03/04/25 09:23	

Metals (Dissolved)

EPA 200.7	Aluminum	612	mg/L	0.080	0.054		X509127	NMS	03/04/25 09:23	
EPA 200.7	Barium	0.0200	mg/L	0.0020	0.0019		X509127	NMS	03/04/25 09:23	
EPA 200.7	Beryllium	0.646	mg/L	0.00200	0.00080		X509127	NMS	03/04/25 09:23	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X509127	NMS	03/04/25 09:23	
EPA 200.7	Cadmium	1.33	mg/L	0.0020	0.0016		X509127	NMS	03/04/25 09:23	
EPA 200.7	Calcium	447	mg/L	0.100	0.069		X509127	NMS	03/04/25 09:23	
EPA 200.7	Chromium	0.0379	mg/L	0.0060	0.0020		X509127	NMS	03/04/25 09:23	
EPA 200.7	Cobalt	0.937	mg/L	0.0060	0.0046		X509127	NMS	03/04/25 09:23	
EPA 200.7	Copper	1.64	mg/L	0.0100	0.0027		X509127	NMS	03/04/25 09:23	
EPA 200.7	Iron	7.93	mg/L	0.100	0.056		X509127	NMS	03/04/25 09:23	
EPA 200.7	Lead	0.0382	mg/L	0.0075	0.0049		X509127	NMS	03/04/25 09:23	
EPA 200.7	Lithium	0.357	mg/L	0.040	0.025		X509127	NMS	03/04/25 09:23	
EPA 200.7	Magnesium	360	mg/L	0.500	0.090		X509127	NMS	03/04/25 09:23	
EPA 200.7	Manganese	220	mg/L	0.0800	0.0340	10	X509127	NMS	03/04/25 10:31	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X509127	NMS	03/04/25 09:23	
EPA 200.7	Nickel	1.97	mg/L	0.0100	0.0048		X509127	NMS	03/04/25 09:23	
EPA 200.7	Potassium	7.55	mg/L	0.50	0.18		X509127	NMS	03/04/25 09:23	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X509127	NMS	03/04/25 09:23	
EPA 200.7	Sodium	96.0	mg/L	0.50	0.12		X509127	NMS	03/04/25 09:23	
EPA 200.7	Vanadium	0.0116	mg/L	0.0050	0.0019		X509127	NMS	03/04/25 09:23	
EPA 200.7	Zinc	32.7	mg/L	0.0100	0.0054		X509127	NMS	03/04/25 09:23	
EPA 200.8	Antimony	< 0.0100	mg/L	0.0100	0.00720	10	X509169	JRR	03/04/25 08:57	D17
EPA 200.8	Arsenic	0.270	mg/L	0.0100	0.00210	10	X509169	JRR	03/04/25 08:57	D17,M4
EPA 200.8	Selenium	0.0361	mg/L	0.0100	0.00240	10	X509169	SMU	03/04/25 14:10	D17
EPA 200.8	Thallium	< 0.00200	mg/L	0.00200	0.000800	10	X509169	JRR	03/04/25 08:57	D17
EPA 200.8	Uranium	2.11	mg/L	0.00100	0.000520	10	X509169	JRR	03/04/25 08:57	D17,M4

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X509101	SJN	03/03/25 10:04	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X510020	DD	03/05/25 11:52	
EPA 335.4	Cyanide (total)	0.0113	mg/L	0.0050	0.0038		X509001	JPM	02/25/25 09:16	
EPA 350.1	Ammonia as N	0.218	mg/L	0.030	0.013		X509058	JPM	02/26/25 12:47	
OIA 1677	Cyanide (WAD)	< 0.0250	mg/L	0.0250	0.0050	5	X509004	JPM	02/24/25 15:56	D13,Q12
SM 2310 B	Acidity to pH 8.3	3670	mg/L as CaCO3	10.0			X508184	MWD	02/24/25 08:55	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X508166	MWD	02/21/25 15:50	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X508166	MWD	02/21/25 15:50	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X508166	MWD	02/21/25 15:50	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X508166	MWD	02/21/25 15:50	
SM 2540 C	Total Diss. Solids	8690	mg/L	40			X508151	TJL	02/24/25 13:30	
SM 2540 D	Total Susp. Solids	16.0	mg/L	5.0			X508152	TJL	02/24/25 14:05	
SM 4500 H B	pH @18.9°C	3.5	pH Units				X508166	MWD	02/21/25 15:50	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

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0222**

Reported: 06-Mar-25 15:21

Client Sample ID: **GVMW-33**SVL Sample ID: **X5B0222-01 (Ground Water)**

Sampled: 19-Feb-25 11:29

Received: 20-Feb-25

Sampled By: TR

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	5.41	mg/L	2.00	0.22	10	X508148	RS	02/20/25 13:50	D18
EPA 300.0	Fluoride	97.8	mg/L	25.0	4.25	250	X508148	RS	02/20/25 14:06	
EPA 300.0	Nitrate as N	5.71	mg/L	0.500	0.130	10	X508148	RS	02/20/25 13:50	D18
EPA 300.0	Nitrate+Nitrite as N	5.71	mg/L	1.00	0.440	10	X508148	RS	02/20/25 13:50	D18
EPA 300.0	Nitrite as N	< 0.500	mg/L	0.500	0.310	10	X508148	RS	02/20/25 13:50	D18
EPA 300.0	Sulfate as SO4	6310	mg/L	75.0	45.0	250	X508148	RS	02/20/25 14:06	

Cation/Anion Balance and TDS Ratios

Cation Sum: 129 meq/L

Anion Sum: 137 meq/L

C/A Balance: -3.15 %

Calculated TDS: 7314

TDS/cTDS: 1.19

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

Kristi A. Groth

Kristi A. Groth

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

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5B0222**

Reported: 06-Mar-25 15:21

Client Sample ID: **GVMW-34**

Sampled: 19-Feb-25 11:40

Received: 20-Feb-25

Sampled By: TR

SVL Sample ID: **X5B0222-02 (Ground Water)**

Sample Report Page 1 of 2

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

EPA 200.7	Calcium	606	mg/L	1.00	0.690	10	X509019	NMS	02/27/25 13:34	
EPA 200.7	Magnesium	306	mg/L	0.500	0.090		X509019	NMS	02/26/25 14:09	
EPA 200.7	Potassium	4.65	mg/L	0.50	0.18		X509019	NMS	02/26/25 14:09	
SM 2340 B	Hardness (as CaCO3)	2870	mg/L	4.56	2.09		N/A		02/26/25 14:09	

Metals (Dissolved)

EPA 200.7	Aluminum	15.8	mg/L	0.080	0.054		X509127	NMS	03/04/25 09:27	
EPA 200.7	Barium	0.0341	mg/L	0.0020	0.0019		X509127	NMS	03/04/25 09:27	
EPA 200.7	Beryllium	0.0158	mg/L	0.00200	0.00080		X509127	NMS	03/04/25 09:27	
EPA 200.7	Boron	0.0495	mg/L	0.0400	0.0078		X509127	NMS	03/04/25 09:27	
EPA 200.7	Cadmium	0.0708	mg/L	0.0020	0.0016		X509127	NMS	03/04/25 09:27	
EPA 200.7	Calcium	638	mg/L	0.100	0.069		X509127	NMS	03/04/25 09:27	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X509127	NMS	03/04/25 09:27	
EPA 200.7	Cobalt	0.0590	mg/L	0.0060	0.0046		X509127	NMS	03/04/25 09:27	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X509127	NMS	03/04/25 09:27	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X509127	NMS	03/04/25 09:27	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X509127	NMS	03/04/25 09:27	
EPA 200.7	Lithium	0.338	mg/L	0.040	0.025		X509127	NMS	03/04/25 09:27	
EPA 200.7	Magnesium	329	mg/L	0.500	0.090		X509127	NMS	03/04/25 09:27	
EPA 200.7	Manganese	80.4	mg/L	0.0080	0.0034		X509127	NMS	03/04/25 09:27	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X509127	NMS	03/04/25 09:27	
EPA 200.7	Nickel	0.385	mg/L	0.0100	0.0048		X509127	NMS	03/04/25 09:27	
EPA 200.7	Potassium	4.71	mg/L	0.50	0.18		X509127	NMS	03/04/25 09:27	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X509127	NMS	03/04/25 09:27	
EPA 200.7	Sodium	48.1	mg/L	0.50	0.12		X509127	NMS	03/04/25 09:27	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X509127	NMS	03/04/25 09:27	
EPA 200.7	Zinc	8.91	mg/L	0.0100	0.0054		X509127	NMS	03/04/25 09:27	
EPA 200.8	Antimony	< 0.0100	mg/L	0.0100	0.00720	10	X509169	JRR	03/04/25 09:06	D17
EPA 200.8	Arsenic	< 0.0100	mg/L	0.0100	0.00210	10	X509169	JRR	03/04/25 09:06	D17
EPA 200.8	Selenium	0.0133	mg/L	0.0100	0.00240	10	X509169	SMU	03/04/25 14:20	D17
EPA 200.8	Thallium	< 0.00200	mg/L	0.00200	0.000800	10	X509169	JRR	03/04/25 09:06	D17
EPA 200.8	Uranium	0.0322	mg/L	0.00100	0.000520	10	X509169	JRR	03/04/25 09:06	D17

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X509101	SJN	03/03/25 10:06	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X510020	DD	03/05/25 11:54	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X509001	JPM	02/25/25 09:18	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X509058	JPM	02/26/25 12:49	
OIA 1677	Cyanide (WAD)	< 0.0250	mg/L	0.0250	0.0050	5	X509004	JPM	02/24/25 15:57	D13,Q12
SM 2310 B	Acidity to pH 8.3	-194	mg/L as CaCO3	10.0			X508184	MWD	02/24/25 08:55	
SM 2320 B	Total Alkalinity	194	mg/L as CaCO3	1.0			X508166	MWD	02/21/25 15:55	
SM 2320 B	Bicarbonate	194	mg/L as CaCO3	1.0			X508166	MWD	02/21/25 15:55	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X508166	MWD	02/21/25 15:55	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X508166	MWD	02/21/25 15:55	
SM 2540 C	Total Diss. Solids	4340	mg/L	40			X508151	TJL	02/24/25 13:30	
SM 2540 D	Total Susp. Solids	75.0	mg/L	5.0			X508152	TJL	02/24/25 14:05	
SM 4500 H B	pH @18.8°C	6.1	pH Units				X508166	MWD	02/21/25 15:55	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	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5B0222 Reported: 06-Mar-25 15:21
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Client Sample ID: **GVMW-34**
SVL Sample ID: **X5B0222-02 (Ground Water)**

Sampled: 19-Feb-25 11:40
Received: 20-Feb-25
Sampled By: TR

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	25.8	mg/L	10.0	1.10	50	X508148	RS	02/20/25 14:37	
EPA 300.0	Fluoride	30.5	mg/L	5.00	0.850	50	X508148	RS	02/20/25 14:37	
EPA 300.0	Nitrate as N	10.4	mg/L	2.50	0.650	50	X508148	RS	02/20/25 14:37	
EPA 300.0	Nitrate+Nitrite as N	10.4	mg/L	5.00	2.20	50	X508148	RS	02/20/25 14:37	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X508148	RS	02/20/25 14:22	
EPA 300.0	Sulfate as SO4	2950	mg/L	30.0	18.0	100	X508148	RS	02/25/25 15:44	

Cation/Anion Balance and TDS Ratios

Cation Sum: 62.6 meq/L	Anion Sum: 68.4 meq/L	C/A Balance: -4.37 %	Calculated TDS: 4161	TDS/cTDS: 1.04
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This data has been reviewed for accuracy and has been authorized for release.

Kristi A. Groth

Kristi A. Groth
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

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0222**

Reported: 06-Mar-25 15:21

Client Sample ID: **GVMW-35B**

Sampled: 19-Feb-25 11:51

SVL Sample ID: **X5B0222-03 (Ground Water)**

Received: 20-Feb-25

Sampled By: TR

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	401	mg/L	0.100	0.069		X509019	NMS	02/26/25 14:13	
EPA 200.7	Magnesium	110	mg/L	0.500	0.090		X509019	NMS	02/26/25 14:13	
EPA 200.7	Potassium	4.96	mg/L	0.50	0.18		X509019	NMS	02/26/25 14:13	
SM 2340 B	Hardness (as CaCO3)	1560	mg/L	2.31	0.543		N/A		02/26/25 14:13	

Metals (Dissolved)

EPA 200.7	Aluminum	0.086	mg/L	0.080	0.054		X509127	NMS	03/04/25 09:44	
EPA 200.7	Barium	0.0172	mg/L	0.0020	0.0019		X509127	NMS	03/04/25 09:44	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X509127	NMS	03/04/25 09:44	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X509127	NMS	03/04/25 09:44	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X509127	NMS	03/04/25 09:44	
EPA 200.7	Calcium	427	mg/L	0.100	0.069		X509127	NMS	03/04/25 09:44	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X509127	NMS	03/04/25 09:44	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X509127	NMS	03/04/25 09:44	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X509127	NMS	03/04/25 09:44	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X509127	NMS	03/04/25 09:44	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X509127	NMS	03/05/25 10:23	
EPA 200.7	Lithium	0.087	mg/L	0.040	0.025		X509127	NMS	03/04/25 09:44	
EPA 200.7	Magnesium	120	mg/L	0.500	0.090		X509127	NMS	03/04/25 09:44	
EPA 200.7	Manganese	1.04	mg/L	0.0080	0.0034		X509127	NMS	03/04/25 09:44	
EPA 200.7	Molybdenum	0.0106	mg/L	0.0080	0.0034		X509127	NMS	03/04/25 09:44	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X509127	NMS	03/04/25 09:44	
EPA 200.7	Potassium	4.20	mg/L	0.50	0.18		X509127	NMS	03/04/25 09:44	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X509127	NMS	03/04/25 09:44	
EPA 200.7	Sodium	17.1	mg/L	0.50	0.12		X509127	NMS	03/04/25 09:44	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X509127	NMS	03/04/25 09:44	
EPA 200.7	Zinc	0.0422	mg/L	0.0100	0.0054		X509127	NMS	03/04/25 09:44	
EPA 200.8	Antimony	< 0.0100	mg/L	0.0100	0.00720	10	X509169	JRR	03/04/25 09:10	D17
EPA 200.8	Arsenic	< 0.0100	mg/L	0.0100	0.00210	10	X509169	JRR	03/04/25 09:10	D17
EPA 200.8	Selenium	< 0.0100	mg/L	0.0100	0.00240	10	X509169	SMU	03/04/25 14:23	D17
EPA 200.8	Thallium	< 0.00200	mg/L	0.00200	0.000800	10	X509169	JRR	03/04/25 09:10	D17
EPA 200.8	Uranium	0.00580	mg/L	0.00100	0.000520	10	X509169	JRR	03/04/25 09:10	D17

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X509101	SJN	03/03/25 10:08	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X510020	DD	03/05/25 11:56	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X509001	JPM	02/25/25 09:20	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X509058	JPM	02/26/25 12:51	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X509004	JPM	02/24/25 15:59	
SM 2310 B	Acidity to pH 8.3	-111	mg/L as CaCO3	10.0			X508184	MWD	02/24/25 08:55	
SM 2320 B	Total Alkalinity	60.9	mg/L as CaCO3	1.0			X508166	MWD	02/21/25 16:00	
SM 2320 B	Bicarbonate	60.9	mg/L as CaCO3	1.0			X508166	MWD	02/21/25 16:00	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X508166	MWD	02/21/25 16:00	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X508166	MWD	02/21/25 16:00	
SM 2540 C	Total Diss. Solids	2060	mg/L	40			X508151	TJL	02/24/25 13:30	
SM 2540 D	Total Susp. Solids	189	mg/L	5.0			X508152	TJL	02/24/25 14:05	
SM 4500 H B	pH @18.9°C	7.7	pH Units				X508166	MWD	02/21/25 16:00	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	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5B0222 Reported: 06-Mar-25 15:21
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Client Sample ID: **GVMW-35B**
SVL Sample ID: **X5B0222-03 (Ground Water)**

Sampled: 19-Feb-25 11:51
Received: 20-Feb-25
Sampled By: TR

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	82.5	mg/L	10.0	1.10	50	X508148	RS	02/20/25 15:09	M4
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.017		X508148	RS	02/20/25 14:53	M2
EPA 300.0	Nitrate as N	10.8	mg/L	2.50	0.650	50	X508148	RS	02/20/25 15:09	M4
EPA 300.0	Nitrate+Nitrite as N	10.8	mg/L	5.00	2.20	50	X508148	RS	02/20/25 15:09	M4
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X508148	RS	02/20/25 14:53	
EPA 300.0	Sulfate as SO4	1270	mg/L	15.0	9.00	50	X508148	RS	02/20/25 15:09	M4

Cation/Anion Balance and TDS Ratios

Cation Sum: 30.0 meq/L	Anion Sum: 30.8 meq/L	C/A Balance: -1.28 %	Calculated TDS: 1988	TDS/cTDS: 1.04
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This data has been reviewed for accuracy and has been authorized for release.

Kristi A. Groth

Kristi A. Groth
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

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5B0222**

Reported: 06-Mar-25 15:21

Client Sample ID: **GVMW-36**

Sampled: 19-Feb-25 12:03

Received: 20-Feb-25

Sampled By: TR

SVL Sample ID: **X5B0222-04 (Ground Water)**

Sample Report Page 1 of 2

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

EPA 200.7	Calcium	405	mg/L	0.100	0.069		X509019	NMS	02/26/25 14:17	
EPA 200.7	Magnesium	604	mg/L	2.50	0.450	5	X509019	NMS	02/26/25 14:47	
EPA 200.7	Potassium	7.55	mg/L	0.50	0.18		X509019	NMS	02/26/25 14:17	
SM 2340 B	Hardness (as CaCO3)	3640	mg/L	10.5	2.03		N/A		03/04/25 09:47	

Metals (Dissolved)

EPA 200.7	Aluminum	968	mg/L	0.800	0.540	10	X509127	NMS	03/04/25 10:34	
EPA 200.7	Barium	0.0158	mg/L	0.0020	0.0019		X509127	NMS	03/04/25 09:47	
EPA 200.7	Beryllium	0.232	mg/L	0.00200	0.00080		X509127	NMS	03/04/25 09:47	
EPA 200.7	Boron	0.0431	mg/L	0.0400	0.0078		X509127	NMS	03/04/25 09:47	
EPA 200.7	Cadmium	2.05	mg/L	0.0020	0.0016		X509127	NMS	03/04/25 09:47	
EPA 200.7	Calcium	461	mg/L	0.100	0.069		X509127	NMS	03/04/25 09:47	
EPA 200.7	Chromium	0.232	mg/L	0.0060	0.0020		X509127	NMS	03/04/25 09:47	
EPA 200.7	Cobalt	4.85	mg/L	0.0060	0.0046		X509127	NMS	03/04/25 09:47	
EPA 200.7	Copper	4.42	mg/L	0.0100	0.0027		X509127	NMS	03/04/25 09:47	
EPA 200.7	Iron	22.0	mg/L	0.100	0.056		X509127	NMS	03/04/25 09:47	
EPA 200.7	Lead	0.122	mg/L	0.0075	0.0049		X509127	NMS	03/05/25 10:27	
EPA 200.7	Lithium	0.618	mg/L	0.040	0.025		X509127	NMS	03/04/25 09:47	
EPA 200.7	Magnesium	739	mg/L	0.500	0.090		X509127	NMS	03/04/25 09:47	
EPA 200.7	Manganese	233	mg/L	0.0800	0.0340	10	X509127	NMS	03/04/25 10:34	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X509127	NMS	03/04/25 09:47	
EPA 200.7	Nickel	4.24	mg/L	0.0100	0.0048		X509127	NMS	03/04/25 09:47	
EPA 200.7	Potassium	7.48	mg/L	0.50	0.18		X509127	NMS	03/04/25 09:47	
EPA 200.7	Silver	0.0095	mg/L	0.0050	0.0019		X509127	NMS	03/04/25 09:47	
EPA 200.7	Sodium	61.8	mg/L	0.50	0.12		X509127	NMS	03/04/25 09:47	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X509127	NMS	03/04/25 09:47	
EPA 200.7	Zinc	93.7	mg/L	0.100	0.0540	10	X509127	NMS	03/04/25 10:34	
EPA 200.8	Antimony	< 0.0100	mg/L	0.0100	0.00720	10	X509169	JRR	03/04/25 09:13	D17
EPA 200.8	Arsenic	0.131	mg/L	0.0100	0.00210	10	X509169	JRR	03/04/25 09:13	D17
EPA 200.8	Selenium	0.0197	mg/L	0.0100	0.00240	10	X509169	SMU	03/04/25 14:26	D17
EPA 200.8	Thallium	< 0.00200	mg/L	0.00200	0.000800	10	X509169	JRR	03/04/25 09:13	D17
EPA 200.8	Uranium	4.51	mg/L	0.00100	0.000520	10	X509169	JRR	03/04/25 09:13	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X509101	SJN	03/03/25 10:10	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X510020	DD	03/05/25 12:04	
EPA 335.4	Cyanide (total)	0.0058	mg/L	0.0050	0.0038		X509001	JPM	02/25/25 09:30	
EPA 350.1	Ammonia as N	0.056	mg/L	0.030	0.013		X509058	JPM	02/26/25 13:02	
OIA 1677	Cyanide (WAD)	< 0.0250	mg/L	0.0250	0.0050	5	X509004	JPM	02/24/25 16:01	D13,Q12
SM 2310 B	Acidity to pH 8.3	5920	mg/L as CaCO3	10.0			X508184	MWD	02/24/25 08:55	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X508166	MWD	02/21/25 16:06	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X508166	MWD	02/21/25 16:06	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X508166	MWD	02/21/25 16:06	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X508166	MWD	02/21/25 16:06	
SM 2540 C	Total Diss. Solids	13100	mg/L	100			X508151	TJL	02/24/25 13:30	
SM 2540 D	Total Susp. Solids	28.0	mg/L	5.0			X508152	TJL	02/24/25 14:05	
SM 4500 H B	pH @19.0°C	3.3	pH Units				X508166	MWD	02/21/25 16:06	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	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5B0222 Reported: 06-Mar-25 15:21
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Client Sample ID: **GVMW-36**
SVL Sample ID: **X5B0222-04 (Ground Water)**

Sample Report Page 2 of 2

Sampled: 19-Feb-25 12:03
Received: 20-Feb-25
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	11.5	mg/L	2.00	0.22	10	X508148	RS	02/20/25 17:00	D18
EPA 300.0	Fluoride	113	mg/L	25.0	4.25	250	X508148	RS	02/21/25 11:10	
EPA 300.0	Nitrate as N	2.69	mg/L	0.500	0.130	10	X508148	RS	02/20/25 17:00	D18
EPA 300.0	Nitrate+Nitrite as N	2.69	mg/L	1.00	0.440	10	X508148	RS	02/20/25 17:00	D18
EPA 300.0	Nitrite as N	< 0.500	mg/L	0.500	0.310	10	X508148	RS	02/20/25 17:00	D18
EPA 300.0	Sulfate as SO4	9850	mg/L	75.0	45.0	250	X508148	RS	02/20/25 17:16	

Cation/Anion Balance and TDS Ratios

Cation Sum: 193 meq/L	Anion Sum: 212 meq/L	C/A Balance: -4.63 %	Calculated TDS: 11160	TDS/cTDS: 1.17
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This data has been reviewed for accuracy and has been authorized for release.

Kristi A. Groth

Kristi A. Groth
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

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0222**

Reported: 06-Mar-25 15:21

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X509019	26-Feb-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X509019	26-Feb-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X509019	26-Feb-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X509127	04-Mar-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X509127	04-Mar-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X509127	04-Mar-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X509127	04-Mar-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X509127	04-Mar-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X509127	04-Mar-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X509127	04-Mar-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X509127	04-Mar-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X509127	04-Mar-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X509127	04-Mar-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X509127	05-Mar-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X509127	04-Mar-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X509127	04-Mar-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X509127	04-Mar-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X509127	04-Mar-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X509127	04-Mar-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X509127	04-Mar-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X509127	04-Mar-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X509127	04-Mar-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X509127	04-Mar-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X509127	04-Mar-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X509169	04-Mar-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X509169	04-Mar-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X509169	04-Mar-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X509169	04-Mar-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X509169	04-Mar-25	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X509101	03-Mar-25	
Classical Chemistry Parameters								
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X510020	05-Mar-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X509001	25-Feb-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X509058	26-Feb-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X509004	24-Feb-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X508184	24-Feb-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X508166	21-Feb-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X508166	21-Feb-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X508166	21-Feb-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X508166	21-Feb-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X508151	24-Feb-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X508152	24-Feb-25	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X508148	20-Feb-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X508148	20-Feb-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X508148	20-Feb-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X508148	20-Feb-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X508148	20-Feb-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X508148	20-Feb-25	

SVL holds the following certifications:

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

Work order Report Page 10 of 15

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0222**

Reported: 06-Mar-25 15:21

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	mg/L	20.3	20.0	101	85 - 115	X509019	26-Feb-25	
EPA 200.7	Magnesium	mg/L	20.3	20.0	102	85 - 115	X509019	26-Feb-25	
EPA 200.7	Potassium	mg/L	20.0	20.0	100	85 - 115	X509019	26-Feb-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.960	1.00	96.0	85 - 115	X509127	04-Mar-25	
EPA 200.7	Barium	mg/L	0.999	1.00	99.9	85 - 115	X509127	04-Mar-25	
EPA 200.7	Beryllium	mg/L	0.973	1.00	97.3	85 - 115	X509127	04-Mar-25	
EPA 200.7	Boron	mg/L	0.992	1.00	99.2	85 - 115	X509127	04-Mar-25	
EPA 200.7	Cadmium	mg/L	0.974	1.00	97.4	85 - 115	X509127	04-Mar-25	
EPA 200.7	Calcium	mg/L	19.3	20.0	96.4	85 - 115	X509127	04-Mar-25	
EPA 200.7	Chromium	mg/L	0.991	1.00	99.1	85 - 115	X509127	04-Mar-25	
EPA 200.7	Cobalt	mg/L	0.953	1.00	95.3	85 - 115	X509127	04-Mar-25	
EPA 200.7	Copper	mg/L	0.969	1.00	96.9	85 - 115	X509127	04-Mar-25	
EPA 200.7	Iron	mg/L	9.97	10.0	99.7	85 - 115	X509127	04-Mar-25	
EPA 200.7	Lead	mg/L	0.974	1.00	97.4	85 - 115	X509127	04-Mar-25	
EPA 200.7	Lithium	mg/L	0.962	1.00	96.2	85 - 115	X509127	04-Mar-25	
EPA 200.7	Magnesium	mg/L	18.9	20.0	94.4	85 - 115	X509127	04-Mar-25	
EPA 200.7	Manganese	mg/L	0.982	1.00	98.2	85 - 115	X509127	04-Mar-25	
EPA 200.7	Molybdenum	mg/L	0.990	1.00	99.0	85 - 115	X509127	04-Mar-25	
EPA 200.7	Nickel	mg/L	0.955	1.00	95.5	85 - 115	X509127	04-Mar-25	
EPA 200.7	Potassium	mg/L	19.7	20.0	98.5	85 - 115	X509127	04-Mar-25	
EPA 200.7	Silver	mg/L	0.0496	0.0500	99.3	85 - 115	X509127	04-Mar-25	
EPA 200.7	Sodium	mg/L	18.6	19.0	98.0	85 - 115	X509127	04-Mar-25	
EPA 200.7	Vanadium	mg/L	0.998	1.00	99.8	85 - 115	X509127	04-Mar-25	
EPA 200.7	Zinc	mg/L	0.970	1.00	97.0	85 - 115	X509127	04-Mar-25	
EPA 200.8	Antimony	mg/L	0.0243	0.0250	97.1	85 - 115	X509169	04-Mar-25	
EPA 200.8	Arsenic	mg/L	0.0232	0.0250	92.7	85 - 115	X509169	04-Mar-25	
EPA 200.8	Selenium	mg/L	0.0217	0.0250	86.7	85 - 115	X509169	04-Mar-25	
EPA 200.8	Thallium	mg/L	0.0251	0.0250	101	85 - 115	X509169	04-Mar-25	
EPA 200.8	Uranium	mg/L	0.0272	0.0250	109	85 - 115	X509169	04-Mar-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00198	0.00200	98.9	85 - 115	X509101	03-Mar-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.106	0.100	106	90 - 110	X510020	05-Mar-25	
EPA 335.4	Cyanide (total)	mg/L	0.102	0.100	102	90 - 110	X509001	25-Feb-25	
EPA 335.4	Cyanide (total)	mg/L	0.100	0.100	100	90 - 110	X509001	25-Feb-25	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X509001	25-Feb-25	
EPA 335.4	Cyanide (total)	mg/L	0.0979	0.100	97.9	90 - 110	X509001	25-Feb-25	
EPA 350.1	Ammonia as N	mg/L	1.00	1.00	100	90 - 110	X509058	26-Feb-25	
EPA 350.1	Ammonia as N	mg/L	1.00	1.00	100	90 - 110	X509058	26-Feb-25	
EPA 350.1	Ammonia as N	mg/L	1.00	1.00	100	90 - 110	X509058	26-Feb-25	
EPA 350.1	Ammonia as N	mg/L	0.989	1.00	98.9	90 - 110	X509058	26-Feb-25	
OIA 1677	Cyanide (WAD)	mg/L	0.0946	0.100	94.6	90 - 110	X509004	24-Feb-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	724	706	102	95.4 - 104	X508184	24-Feb-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.0	9.93	101	94 - 106	X508166	21-Feb-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	101	94 - 106	X508166	21-Feb-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	415	397	105	94 - 106	X508166	21-Feb-25	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X508152	24-Feb-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	2.93	3.00	97.5	90 - 110	X508148	20-Feb-25	
EPA 300.0	Fluoride	mg/L	1.99	2.00	99.6	90 - 110	X508148	20-Feb-25	
EPA 300.0	Nitrate as N	mg/L	1.94	2.00	97.0	90 - 110	X508148	20-Feb-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.50	4.50	99.9	90 - 110	X508148	20-Feb-25	
EPA 300.0	Nitrite as N	mg/L	2.56	2.50	102	90 - 110	X508148	20-Feb-25	

SVL holds the following certifications:

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

Work order Report Page 11 of 15

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0222**

Reported: 06-Mar-25 15:21

Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Anions by Ion Chromatography (Continued)									
EPA 300.0	Sulfate as SO ₄	mg/L	9.97	10.0	99.7	90 - 110	X508148	20-Feb-25	

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
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Classical Chemistry Parameters

SM 2310 B	Acidity to pH 8.3	mg/L as CaCO ₃	<10.0	<10.0	UDL	20	X508184 - X5B0152-01	24-Feb-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	180	181	0.8	20	X508166 - X5B0167-01	21-Feb-25	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	180	181	0.8	20	X508166 - X5B0167-01	21-Feb-25	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X508166 - X5B0167-01	21-Feb-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X508166 - X5B0167-01	21-Feb-25	
SM 2540 C	Total Diss. Solids	mg/L	217	211	2.8	10	X508151 - X5B0221-02	24-Feb-25	
SM 2540 C	Total Diss. Solids	mg/L	251	241	4.1	10	X508151 - X5B0226-01	24-Feb-25	
SM 2540 D	Total Susp. Solids	mg/L	77.0	75.0	2.6	10	X508152 - X5B0222-02	24-Feb-25	
SM 4500 H B	pH @19.1°C	pH Units	7.6	7.7	1.1	20	X508166 - X5B0167-01	21-Feb-25	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	mg/L	410	425	20.0	0.30R>S	70 - 130	X509019 - X5B0222-01	26-Feb-25	M3
EPA 200.7	Magnesium	mg/L	326	312	20.0	72.4	70 - 130	X509019 - X5B0222-01	26-Feb-25	
EPA 200.7	Potassium	mg/L	28.9	8.28	20.0	103	70 - 130	X509019 - X5B0222-01	26-Feb-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.955	<0.080	1.00	95.5	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Aluminum	mg/L	1.01	<0.080	1.00	101	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Barium	mg/L	1.03	0.0319	1.00	99.3	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Barium	mg/L	1.12	0.0770	1.00	104	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Beryllium	mg/L	0.972	<0.00200	1.00	97.2	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Beryllium	mg/L	1.02	<0.00200	1.00	102	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Boron	mg/L	1.01	<0.0400	1.00	101	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Boron	mg/L	1.07	<0.0400	1.00	105	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Cadmium	mg/L	0.989	<0.0020	1.00	98.9	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Cadmium	mg/L	1.02	<0.0020	1.00	102	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Calcium	mg/L	53.0	34.4	20.0	93.3	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Calcium	mg/L	72.2	52.1	20.0	100	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Chromium	mg/L	1.00	<0.0060	1.00	100	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Chromium	mg/L	1.04	<0.0060	1.00	104	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Cobalt	mg/L	0.957	<0.0060	1.00	95.7	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Cobalt	mg/L	0.993	<0.0060	1.00	99.3	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Copper	mg/L	0.959	<0.0100	1.00	95.9	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Copper	mg/L	1.00	<0.0100	1.00	100	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Iron	mg/L	9.88	<0.100	10.0	98.8	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Iron	mg/L	10.5	<0.100	10.0	105	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Lead	mg/L	0.993	<0.0075	1.00	99.3	70 - 130	X509127 - X5B0200-01	04-Mar-25	

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0222**

Reported: 06-Mar-25 15:21

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Lead	mg/L	1.02	<0.0075	1.00	102	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Lithium	mg/L	0.990	<0.040	1.00	99.0	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Lithium	mg/L	1.06	<0.040	1.00	106	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Magnesium	mg/L	31.4	11.8	20.0	97.8	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Magnesium	mg/L	29.2	8.56	20.0	103	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Manganese	mg/L	0.994	<0.0080	1.00	98.7	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Manganese	mg/L	1.04	0.0147	1.00	103	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Molybdenum	mg/L	1.00	<0.0080	1.00	100	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Molybdenum	mg/L	1.05	0.0100	1.00	104	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Nickel	mg/L	0.959	<0.0100	1.00	95.9	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Nickel	mg/L	0.998	<0.0100	1.00	99.2	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Potassium	mg/L	20.3	0.75	20.0	97.7	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Potassium	mg/L	21.9	1.16	20.0	104	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Silver	mg/L	0.0494	<0.0050	0.0500	98.8	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Silver	mg/L	0.0522	<0.0050	0.0500	104	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Sodium	mg/L	29.3	11.2	19.0	95.4	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Sodium	mg/L	49.2	29.9	19.0	101	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Vanadium	mg/L	1.01	<0.0050	1.00	101	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Vanadium	mg/L	1.05	<0.0050	1.00	105	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Zinc	mg/L	0.996	<0.0100	1.00	99.6	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Zinc	mg/L	1.03	<0.0100	1.00	103	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.8	Antimony	mg/L	0.0232	<0.0100	0.0250	92.7	70 - 130	X509169 - X5B0222-01	04-Mar-25	D17
EPA 200.8	Antimony	mg/L	0.0275	<0.0100	0.0250	110	70 - 130	X509169 - X5B0303-01	04-Mar-25	D17
EPA 200.8	Arsenic	mg/L	0.273	0.270	0.0250	0.30R>S	70 - 130	X509169 - X5B0222-01	04-Mar-25	D17,M4
EPA 200.8	Arsenic	mg/L	0.439	0.408	0.0250	125	70 - 130	X509169 - X5B0303-01	04-Mar-25	D17
EPA 200.8	Selenium	mg/L	0.0574	0.0361	0.0250	85.2	70 - 130	X509169 - X5B0222-01	04-Mar-25	D17
EPA 200.8	Selenium	mg/L	0.0617	0.0410	0.0250	82.8	70 - 130	X509169 - X5B0303-01	04-Mar-25	D17
EPA 200.8	Thallium	mg/L	0.0251	<0.00200	0.0250	100	70 - 130	X509169 - X5B0222-01	04-Mar-25	D17
EPA 200.8	Thallium	mg/L	0.0317	<0.00200	0.0250	127	70 - 130	X509169 - X5B0303-01	04-Mar-25	D17
EPA 200.8	Uranium	mg/L	2.06	2.11	0.0250	0.30R>S	70 - 130	X509169 - X5B0222-01	04-Mar-25	D17,M4
EPA 200.8	Uranium	mg/L	5.83	5.55	0.0250	0.30R>S	70 - 130	X509169 - X5B0303-01	04-Mar-25	M4
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00200	<0.000200	0.00200	100	70 - 130	X509101 - X5B0190-01	03-Mar-25	
EPA 245.1	Mercury	mg/L	0.00207	<0.000200	0.00200	104	70 - 130	X509101 - X5B0222-01	03-Mar-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.114	<0.0050	0.100	114	79 - 121	X510020 - X5B0337-04	05-Mar-25	
EPA 335.4	Cyanide (total)	mg/L	0.0956	<0.0050	0.100	95.6	90 - 110	X509001 - X5B0222-02	25-Feb-25	
EPA 350.1	Ammonia as N	mg/L	0.964	<0.030	1.00	96.4	90 - 110	X509058 - X5B0222-02	26-Feb-25	
OIA 1677	Cyanide (WAD)	mg/L	0.0901	<0.0050	0.100	90.1	82 - 118	X509004 - X5B0190-02	24-Feb-25	R4
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	85.0	82.5	3.00	0.30R>S	90 - 110	X508148 - X5B0222-03	20-Feb-25	M4
EPA 300.0	Fluoride	mg/L	1.55	<0.100	2.00	73.9	90 - 110	X508148 - X5B0222-03	20-Feb-25	M2
EPA 300.0	Nitrate as N	mg/L	12.3	10.8	2.00	0.30R>S	90 - 110	X508148 - X5B0222-03	20-Feb-25	M4
EPA 300.0	Nitrate+Nitrite as N	mg/L	14.3	10.8	4.00	86.0	90 - 110	X508148 - X5B0222-03	20-Feb-25	M4
EPA 300.0	Nitrite as N	mg/L	1.95	<0.050	2.00	97.6	90 - 110	X508148 - X5B0222-03	20-Feb-25	
EPA 300.0	Sulfate as SO4	mg/L	1260	1270	10.0	0.30R>S	90 - 110	X508148 - X5B0222-03	20-Feb-25	M4



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

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5B0222**

Reported: 06-Mar-25 15:21

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	444	410	20.0	8.0	20	96	X509019 - X5B0222-01	
EPA 200.7	Magnesium	mg/L	334	326	20.0	2.2	20	109	X509019 - X5B0222-01	
EPA 200.7	Potassium	mg/L	29.7	28.9	20.0	2.7	20	107	X509019 - X5B0222-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.963	0.955	1.00	0.8	20	96.3	X509127 - X5B0200-01	
EPA 200.7	Barium	mg/L	1.03	1.03	1.00	0.7	20	100	X509127 - X5B0200-01	
EPA 200.7	Beryllium	mg/L	0.960	0.972	1.00	1.2	20	96.0	X509127 - X5B0200-01	
EPA 200.7	Boron	mg/L	1.01	1.01	1.00	0.2	20	101	X509127 - X5B0200-01	
EPA 200.7	Cadmium	mg/L	0.970	0.989	1.00	2.0	20	97.0	X509127 - X5B0200-01	
EPA 200.7	Calcium	mg/L	53.4	53.0	20.0	0.6	20	94.9	X509127 - X5B0200-01	
EPA 200.7	Chromium	mg/L	0.996	1.00	1.00	0.4	20	99.6	X509127 - X5B0200-01	
EPA 200.7	Cobalt	mg/L	0.936	0.957	1.00	2.2	20	93.6	X509127 - X5B0200-01	
EPA 200.7	Copper	mg/L	0.955	0.959	1.00	0.4	20	95.5	X509127 - X5B0200-01	
EPA 200.7	Iron	mg/L	10.0	9.88	10.0	1.2	20	100	X509127 - X5B0200-01	
EPA 200.7	Lead	mg/L	0.971	0.993	1.00	2.2	20	97.1	X509127 - X5B0200-01	
EPA 200.7	Lithium	mg/L	0.988	0.990	1.00	0.2	20	98.8	X509127 - X5B0200-01	
EPA 200.7	Magnesium	mg/L	31.3	31.4	20.0	0.2	20	97.5	X509127 - X5B0200-01	
EPA 200.7	Manganese	mg/L	0.985	0.994	1.00	0.9	20	97.8	X509127 - X5B0200-01	
EPA 200.7	Molybdenum	mg/L	0.985	1.00	1.00	1.7	20	98.5	X509127 - X5B0200-01	
EPA 200.7	Nickel	mg/L	0.941	0.959	1.00	1.9	20	94.1	X509127 - X5B0200-01	
EPA 200.7	Potassium	mg/L	20.5	20.3	20.0	0.8	20	98.6	X509127 - X5B0200-01	
EPA 200.7	Silver	mg/L	0.0501	0.0494	0.0500	1.5	20	100	X509127 - X5B0200-01	
EPA 200.7	Sodium	mg/L	29.5	29.3	19.0	0.5	20	96.1	X509127 - X5B0200-01	
EPA 200.7	Vanadium	mg/L	1.00	1.01	1.00	0.9	20	100	X509127 - X5B0200-01	
EPA 200.7	Zinc	mg/L	0.981	0.996	1.00	1.6	20	98.1	X509127 - X5B0200-01	
EPA 200.8	Antimony	mg/L	0.0256	0.0232	0.0250	10.0	20	102	X509169 - X5B0222-01	D17
EPA 200.8	Arsenic	mg/L	0.300	0.273	0.0250	9.3	20	117	X509169 - X5B0222-01	D17
EPA 200.8	Selenium	mg/L	0.0566	0.0574	0.0250	1.3	20	82.2	X509169 - X5B0222-01	D17
EPA 200.8	Thallium	mg/L	0.0278	0.0251	0.0250	10.2	20	111	X509169 - X5B0222-01	D17
EPA 200.8	Uranium	mg/L	2.28	2.06	0.0250	10.1	20	0.30R>S	X509169 - X5B0222-01	D17,M4
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00221	0.00200	0.00200	10.1	20	111	X509101 - X5B0190-01	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.114	0.114	0.100	0.4	11	114	X510020 - X5B0337-04	
EPA 335.4	Cyanide (total)	mg/L	0.105	0.0956	0.100	9.7	20	105	X509001 - X5B0222-02	
EPA 350.1	Ammonia as N	mg/L	0.959	0.964	1.00	0.5	20	95.9	X509058 - X5B0222-02	
OIA 1677	Cyanide (WAD)	mg/L	0.117	0.0901	0.100	25.6	11	117	X509004 - X5B0190-02	R4
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	84.1	85.0	3.00	1.1	20	0.30R>S	X508148 - X5B0222-03	M4
EPA 300.0	Fluoride	mg/L	1.81	1.55	2.00	15.5	20	86.9	X508148 - X5B0222-03	M2
EPA 300.0	Nitrate as N	mg/L	12.5	12.3	2.00	1.2	20	0.30R>S	X508148 - X5B0222-03	M4
EPA 300.0	Nitrate+Nitrite as N	mg/L	14.5	14.3	4.00	1.4	20	90.9	X508148 - X5B0222-03	
EPA 300.0	Nitrite as N	mg/L	2.00	1.95	2.00	2.4	20	100	X508148 - X5B0222-03	
EPA 300.0	Sulfate as SO4	mg/L	1250	1260	10.0	0.6	20	0.30R>S	X508148 - X5B0222-03	M4

SVL holds the following certifications:

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

Work order Report Page 14 of 15



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0222**

Reported: 06-Mar-25 15:21

Notes and Definitions

D13	Due to noticeable turbidity or opacity, a sample dilution was performed.
D17	Due to an internal standard failure at a lower dilution, a sample dilution was performed.
D18	Due to a published chemical interference, a sample dilution was performed.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
Q12	Sample was received and analyzed with pH <12.
Q5	Sample was received with inadequate preservation, but preserved by the laboratory.
R4	MS/MSD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable



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Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0248**

Reported: 07-Mar-25 08:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-25	X5B0248-01	Ground Water	20-Feb-25 09:01	JC	21-Feb-2025	Q5
GVMW-27	X5B0248-02	Ground Water	20-Feb-25 10:01	JC	21-Feb-2025	Q5

Sample preparation is defined by the client as per their Data Quality Objectives.

This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.

Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.

The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of SVL Analytical, Inc.

Case Narrative: X5B0248

Samples treated with CdCO₃ before CN analysis for sulfide interference at client request.

The state of origin only accredits for drinking water analyses.



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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5B0248**

Reported: 07-Mar-25 08:53

Client Sample ID: **GVMW-25**

Sampled: 20-Feb-25 09:01

Received: 21-Feb-25

Sampled By: JC

SVL Sample ID: **X5B0248-01 (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	410	mg/L	0.100	0.069		X509019	NMS	02/26/25 14:39	
EPA 200.7	Magnesium	244	mg/L	0.500	0.090		X509019	NMS	02/26/25 14:39	
EPA 200.7	Potassium	7.50	mg/L	0.50	0.18		X509019	NMS	02/26/25 14:39	
SM 2340 B	Hardness (as CaCO3)	2030	mg/L	2.31	0.543		N/A		03/04/25 09:54	

Metals (Dissolved)

EPA 200.7	Aluminum	417	mg/L	0.080	0.054		X509127	NMS	03/04/25 09:54	
EPA 200.7	Barium	0.0163	mg/L	0.0020	0.0019		X509127	NMS	03/04/25 09:54	
EPA 200.7	Beryllium	0.324	mg/L	0.00200	0.00080		X509127	NMS	03/04/25 09:54	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X509127	NMS	03/04/25 09:54	
EPA 200.7	Cadmium	0.879	mg/L	0.0020	0.0016		X509127	NMS	03/04/25 09:54	
EPA 200.7	Calcium	453	mg/L	0.100	0.069		X509127	NMS	03/04/25 09:54	
EPA 200.7	Chromium	0.0297	mg/L	0.0060	0.0020		X509127	NMS	03/04/25 09:54	
EPA 200.7	Cobalt	0.991	mg/L	0.0060	0.0046		X509127	NMS	03/04/25 09:54	
EPA 200.7	Copper	1.47	mg/L	0.0100	0.0027		X509127	NMS	03/04/25 09:54	
EPA 200.7	Iron	1.69	mg/L	0.100	0.056		X509127	NMS	03/04/25 09:54	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X509127	NMS	03/05/25 10:35	
EPA 200.7	Lithium	0.296	mg/L	0.040	0.025		X509127	NMS	03/04/25 09:54	
EPA 200.7	Magnesium	286	mg/L	0.500	0.090		X509127	NMS	03/04/25 09:54	
EPA 200.7	Manganese	128	mg/L	0.0800	0.0340	10	X509127	NMS	03/04/25 10:42	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X509127	NMS	03/04/25 09:54	
EPA 200.7	Nickel	1.56	mg/L	0.0100	0.0048		X509127	NMS	03/04/25 09:54	
EPA 200.7	Potassium	7.88	mg/L	0.50	0.18		X509127	NMS	03/04/25 09:54	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X509127	NMS	03/04/25 09:54	
EPA 200.7	Sodium	43.9	mg/L	0.50	0.12		X509127	NMS	03/04/25 09:54	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X509127	NMS	03/04/25 09:54	
EPA 200.7	Zinc	31.9	mg/L	0.0100	0.0054		X509127	NMS	03/04/25 09:54	
EPA 200.8	Antimony	< 0.0100	mg/L	0.0100	0.00720	10	X509169	JRR	03/04/25 09:19	D17
EPA 200.8	Arsenic	0.143	mg/L	0.0100	0.00210	10	X509169	JRR	03/04/25 09:19	D17
EPA 200.8	Selenium	0.0129	mg/L	0.0100	0.00240	10	X509169	SMU	03/04/25 14:32	D17
EPA 200.8	Thallium	< 0.00200	mg/L	0.00200	0.000800	10	X509169	JRR	03/04/25 09:19	D17
EPA 200.8	Uranium	1.33	mg/L	0.00100	0.000520	10	X509169	JRR	03/04/25 09:19	D17

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X509101	SJN	03/03/25 10:14	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X510020	DD	03/05/25 12:07	
EPA 335.4	Cyanide (total)	0.0164	mg/L	0.0050	0.0038		X509001	JPM	02/25/25 09:34	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X509135	DD	02/28/25 10:23	
OIA 1677	Cyanide (WAD)	< 0.0250	mg/L	0.0250	0.0050	5	X509004	JPM	02/24/25 16:03	D13,Q12
SM 2310 B	Acidity to pH 8.3	2530	mg/L as CaCO3	10.0			X510197	MWD	03/06/25 14:32	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X509080	MWD	03/03/25 11:08	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X509080	MWD	03/03/25 11:08	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X509080	MWD	03/03/25 11:08	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X509080	MWD	03/03/25 11:08	
SM 2540 C	Total Diss. Solids	6410	mg/L	40			X508181	TJL	02/25/25 13:50	
SM 2540 D	Total Susp. Solids	14.0	mg/L	5.0			X508182	TJL	02/26/25 08:20	
SM 4500 H B	pH @17.4°C	3.6	pH Units				X509080	MWD	03/03/25 11:08	H5

SVL holds the following certifications:

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

Work order Report Page 2 of 11



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	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5B0248 Reported: 07-Mar-25 08:53
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Client Sample ID: **GVMW-25**
SVL Sample ID: **X5B0248-01 (Ground Water)**

Sampled: 20-Feb-25 09:01
Received: 21-Feb-25
Sampled By: JC

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	20.3	mg/L	1.00	0.11	5	X508167	RS	02/21/25 16:07	
EPA 300.0	Fluoride	18.4	mg/L	0.500	0.085	5	X508167	RS	02/21/25 16:07	
EPA 300.0	Nitrate as N	3.13	mg/L	0.250	0.065	5	X508167	RS	02/21/25 16:07	D18
EPA 300.0	Nitrate+Nitrite as N	3.13	mg/L	0.500	0.220	5	X508167	RS	02/21/25 16:07	D18
EPA 300.0	Nitrite as N	< 0.250	mg/L	0.250	0.155	5	X508167	RS	02/21/25 16:07	D18
EPA 300.0	Sulfate as SO4	4700	mg/L	30.0	18.0	100	X508167	RS	02/21/25 16:23	

Cation/Anion Balance and TDS Ratios

Cation Sum: 94.8 meq/L	Anion Sum: 99.6 meq/L	C/A Balance: -2.49 %	Calculated TDS: 5501	TDS/cTDS: 1.17
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This data has been reviewed for accuracy and has been authorized for release.

Kristi A. Groth

Kristi A. Groth
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

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0248**

Reported: 07-Mar-25 08:53

Client Sample ID: **GVMW-27**

Sampled: 20-Feb-25 10:01

Received: 21-Feb-25

Sampled By: JC

SVL Sample ID: **X5B0248-02 (Ground Water)****Sample Report Page 1 of 2**

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

EPA 200.7	Calcium	392	mg/L	0.100	0.069		X509019	NMS	02/26/25 14:43	
EPA 200.7	Magnesium	179	mg/L	0.500	0.090		X509019	NMS	02/26/25 14:43	
EPA 200.7	Potassium	5.16	mg/L	0.50	0.18		X509019	NMS	02/26/25 14:43	
SM 2340 B	Hardness (as CaCO3)	1720	mg/L	2.31	0.543		N/A		03/04/25 09:58	

Metals (Dissolved)

EPA 200.7	Aluminum	293	mg/L	0.080	0.054		X509127	NMS	03/04/25 09:58	
EPA 200.7	Barium	0.0156	mg/L	0.0020	0.0019		X509127	NMS	03/04/25 09:58	
EPA 200.7	Beryllium	0.222	mg/L	0.00200	0.00080		X509127	NMS	03/04/25 09:58	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X509127	NMS	03/04/25 09:58	
EPA 200.7	Cadmium	0.628	mg/L	0.0020	0.0016		X509127	NMS	03/04/25 09:58	
EPA 200.7	Calcium	476	mg/L	0.100	0.069		X509127	NMS	03/04/25 09:58	
EPA 200.7	Chromium	0.0308	mg/L	0.0060	0.0020		X509127	NMS	03/04/25 09:58	
EPA 200.7	Cobalt	0.552	mg/L	0.0060	0.0046		X509127	NMS	03/04/25 09:58	
EPA 200.7	Copper	0.706	mg/L	0.0100	0.0027		X509127	NMS	03/04/25 09:58	
EPA 200.7	Iron	1.70	mg/L	0.100	0.056		X509127	NMS	03/04/25 09:58	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X509127	NMS	03/05/25 10:39	
EPA 200.7	Lithium	0.199	mg/L	0.040	0.025		X509127	NMS	03/04/25 09:58	
EPA 200.7	Magnesium	223	mg/L	0.500	0.090		X509127	NMS	03/04/25 09:58	
EPA 200.7	Manganese	99.4	mg/L	0.0800	0.0340	10	X509127	NMS	03/04/25 10:45	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X509127	NMS	03/04/25 09:58	
EPA 200.7	Nickel	1.01	mg/L	0.0100	0.0048		X509127	NMS	03/04/25 09:58	
EPA 200.7	Potassium	5.29	mg/L	0.50	0.18		X509127	NMS	03/04/25 09:58	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X509127	NMS	03/04/25 09:58	
EPA 200.7	Sodium	48.0	mg/L	0.50	0.12		X509127	NMS	03/04/25 09:58	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X509127	NMS	03/04/25 09:58	
EPA 200.7	Zinc	24.5	mg/L	0.0100	0.0054		X509127	NMS	03/04/25 09:58	
EPA 200.8	Antimony	< 0.0100	mg/L	0.0100	0.00720	10	X509169	JRR	03/04/25 09:36	D17
EPA 200.8	Arsenic	0.0698	mg/L	0.0100	0.00210	10	X509169	JRR	03/04/25 09:36	D17
EPA 200.8	Selenium	< 0.0100	mg/L	0.0100	0.00240	10	X509169	SMU	03/04/25 15:03	D17
EPA 200.8	Thallium	< 0.00200	mg/L	0.00200	0.000800	10	X509169	JRR	03/04/25 09:36	D17
EPA 200.8	Uranium	0.803	mg/L	0.00100	0.000520	10	X509169	JRR	03/04/25 09:36	D17

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X509101	SJN	03/03/25 10:16	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X510020	DD	03/05/25 12:09	
EPA 335.4	Cyanide (total)	0.0179	mg/L	0.0050	0.0038		X509001	JPM	02/25/25 09:36	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X509135	DD	02/28/25 10:25	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X509004	JPM	02/24/25 16:04	
SM 2310 B	Acidity to pH 8.3	1680	mg/L as CaCO3	10.0			X510197	MWD	03/06/25 14:32	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X509080	MWD	03/03/25 11:14	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X509080	MWD	03/03/25 11:14	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X509080	MWD	03/03/25 11:14	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X509080	MWD	03/03/25 11:14	
SM 2540 C	Total Diss. Solids	4940	mg/L	40			X508181	TJL	02/25/25 13:50	
SM 2540 D	Total Susp. Solids	31.0	mg/L	5.0			X508182	TJL	02/26/25 08:20	
SM 4500 H B	pH @17.4°C	3.9	pH Units				X509080	MWD	03/03/25 11:14	H5

SVL holds the following certifications:

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

Work order Report Page 4 of 11



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	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5B0248 Reported: 07-Mar-25 08:53
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Client Sample ID: **GVMW-27**
SVL Sample ID: **X5B0248-02 (Ground Water)**

Sampled: 20-Feb-25 10:01
Received: 21-Feb-25
Sampled By: JC

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	20.1	mg/L	1.00	0.11	5	X508167	RS	02/21/25 16:40	
EPA 300.0	Fluoride	7.31	mg/L	0.500	0.085	5	X508167	RS	02/21/25 16:40	
EPA 300.0	Nitrate as N	2.09	mg/L	0.250	0.065	5	X508167	RS	02/21/25 16:40	D18
EPA 300.0	Nitrate+Nitrite as N	2.09	mg/L	0.500	0.220	5	X508167	RS	02/21/25 16:40	D18
EPA 300.0	Nitrite as N	< 0.250	mg/L	0.250	0.155	5	X508167	RS	02/21/25 16:40	D18
EPA 300.0	Sulfate as SO4	3720	mg/L	30.0	18.0	100	X508167	RS	02/21/25 16:57	

Cation/Anion Balance and TDS Ratios

Cation Sum: 73.6 meq/L	Anion Sum: 78.6 meq/L	C/A Balance: -3.28 %	Calculated TDS: 4445	TDS/cTDS: 1.11
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This data has been reviewed for accuracy and has been authorized for release.

Kristi A. Groth

Kristi A. Groth
Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0248**

Reported: 07-Mar-25 08:53

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X509019	26-Feb-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X509019	26-Feb-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X509019	26-Feb-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X509127	04-Mar-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X509127	04-Mar-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X509127	04-Mar-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X509127	04-Mar-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X509127	04-Mar-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X509127	04-Mar-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X509127	04-Mar-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X509127	04-Mar-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X509127	04-Mar-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X509127	04-Mar-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X509127	05-Mar-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X509127	04-Mar-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X509127	04-Mar-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X509127	04-Mar-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X509127	04-Mar-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X509127	04-Mar-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X509127	04-Mar-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X509127	04-Mar-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X509127	04-Mar-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X509127	04-Mar-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X509127	04-Mar-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X509169	04-Mar-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X509169	04-Mar-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X509169	04-Mar-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X509169	04-Mar-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X509169	04-Mar-25	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X509101	03-Mar-25	
Classical Chemistry Parameters								
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X510020	05-Mar-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X509001	25-Feb-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X509135	28-Feb-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X509004	24-Feb-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X510197	06-Mar-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X509080	03-Mar-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X509080	03-Mar-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X509080	03-Mar-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X509080	03-Mar-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X508181	25-Feb-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X508182	26-Feb-25	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X508167	21-Feb-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X508167	21-Feb-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X508167	21-Feb-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X508167	21-Feb-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X508167	21-Feb-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X508167	21-Feb-25	

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0248**

Reported: 07-Mar-25 08:53

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	mg/L	20.3	20.0	101	85 - 115	X509019	26-Feb-25	
EPA 200.7	Magnesium	mg/L	20.3	20.0	102	85 - 115	X509019	26-Feb-25	
EPA 200.7	Potassium	mg/L	20.0	20.0	100	85 - 115	X509019	26-Feb-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.960	1.00	96.0	85 - 115	X509127	04-Mar-25	
EPA 200.7	Barium	mg/L	0.999	1.00	99.9	85 - 115	X509127	04-Mar-25	
EPA 200.7	Beryllium	mg/L	0.973	1.00	97.3	85 - 115	X509127	04-Mar-25	
EPA 200.7	Boron	mg/L	0.992	1.00	99.2	85 - 115	X509127	04-Mar-25	
EPA 200.7	Cadmium	mg/L	0.974	1.00	97.4	85 - 115	X509127	04-Mar-25	
EPA 200.7	Calcium	mg/L	19.3	20.0	96.4	85 - 115	X509127	04-Mar-25	
EPA 200.7	Chromium	mg/L	0.991	1.00	99.1	85 - 115	X509127	04-Mar-25	
EPA 200.7	Cobalt	mg/L	0.953	1.00	95.3	85 - 115	X509127	04-Mar-25	
EPA 200.7	Copper	mg/L	0.969	1.00	96.9	85 - 115	X509127	04-Mar-25	
EPA 200.7	Iron	mg/L	9.97	10.0	99.7	85 - 115	X509127	04-Mar-25	
EPA 200.7	Lead	mg/L	0.974	1.00	97.4	85 - 115	X509127	04-Mar-25	
EPA 200.7	Lithium	mg/L	0.962	1.00	96.2	85 - 115	X509127	04-Mar-25	
EPA 200.7	Magnesium	mg/L	18.9	20.0	94.4	85 - 115	X509127	04-Mar-25	
EPA 200.7	Manganese	mg/L	0.982	1.00	98.2	85 - 115	X509127	04-Mar-25	
EPA 200.7	Molybdenum	mg/L	0.990	1.00	99.0	85 - 115	X509127	04-Mar-25	
EPA 200.7	Nickel	mg/L	0.955	1.00	95.5	85 - 115	X509127	04-Mar-25	
EPA 200.7	Potassium	mg/L	19.7	20.0	98.5	85 - 115	X509127	04-Mar-25	
EPA 200.7	Silver	mg/L	0.0496	0.0500	99.3	85 - 115	X509127	04-Mar-25	
EPA 200.7	Sodium	mg/L	18.6	19.0	98.0	85 - 115	X509127	04-Mar-25	
EPA 200.7	Vanadium	mg/L	0.998	1.00	99.8	85 - 115	X509127	04-Mar-25	
EPA 200.7	Zinc	mg/L	0.970	1.00	97.0	85 - 115	X509127	04-Mar-25	
EPA 200.8	Antimony	mg/L	0.0243	0.0250	97.1	85 - 115	X509169	04-Mar-25	
EPA 200.8	Arsenic	mg/L	0.0232	0.0250	92.7	85 - 115	X509169	04-Mar-25	
EPA 200.8	Selenium	mg/L	0.0217	0.0250	86.7	85 - 115	X509169	04-Mar-25	
EPA 200.8	Thallium	mg/L	0.0251	0.0250	101	85 - 115	X509169	04-Mar-25	
EPA 200.8	Uranium	mg/L	0.0272	0.0250	109	85 - 115	X509169	04-Mar-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00198	0.00200	98.9	85 - 115	X509101	03-Mar-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.106	0.100	106	90 - 110	X510020	05-Mar-25	
EPA 335.4	Cyanide (total)	mg/L	0.102	0.100	102	90 - 110	X509001	25-Feb-25	
EPA 335.4	Cyanide (total)	mg/L	0.100	0.100	100	90 - 110	X509001	25-Feb-25	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X509001	25-Feb-25	
EPA 335.4	Cyanide (total)	mg/L	0.0979	0.100	97.9	90 - 110	X509001	25-Feb-25	
EPA 350.1	Ammonia as N	mg/L	0.989	1.00	98.9	90 - 110	X509135	28-Feb-25	
OIA 1677	Cyanide (WAD)	mg/L	0.0946	0.100	94.6	90 - 110	X509004	24-Feb-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	702	706	99.5	95.4 - 104	X510197	06-Mar-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.2	9.93	103	94 - 106	X509080	03-Mar-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	399	397	101	94 - 106	X509080	03-Mar-25	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X508182	26-Feb-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.13	3.00	104	90 - 110	X508167	21-Feb-25	
EPA 300.0	Fluoride	mg/L	2.08	2.00	104	90 - 110	X508167	21-Feb-25	
EPA 300.0	Nitrate as N	mg/L	2.04	2.00	102	90 - 110	X508167	21-Feb-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.74	4.50	105	90 - 110	X508167	21-Feb-25	
EPA 300.0	Nitrite as N	mg/L	2.70	2.50	108	90 - 110	X508167	21-Feb-25	
EPA 300.0	Sulfate as SO4	mg/L	10.5	10.0	105	90 - 110	X508167	21-Feb-25	

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0248**

Reported: 07-Mar-25 08:53

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO ₃	1600	1600	0.0	20	X510197 - X5B0247-01	06-Mar-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X509080 - X5B0248-01	03-Mar-25	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X509080 - X5B0248-01	03-Mar-25	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X509080 - X5B0248-01	03-Mar-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X509080 - X5B0248-01	03-Mar-25	
SM 2540 C	Total Diss. Solids	mg/L	741	758	2.3	10	X508181 - X5B0239-01	25-Feb-25	
SM 2540 D	Total Susp. Solids	mg/L	24.0	25.0	4.1	10	X508182 - X5B0247-01	26-Feb-25	
SM 2540 D	Total Susp. Solids	mg/L	5.0	<5.0	<RL	10	X508182 - X5B0259-01	26-Feb-25	
SM 4500 H B	pH @17.2°C	pH Units	3.7	3.6	0.8	20	X509080 - X5B0248-01	03-Mar-25	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	410	425	20.0	0.30R>S	70 - 130	X509019 - X5B0222-01	26-Feb-25	M3
EPA 200.7	Magnesium	mg/L	326	312	20.0	72.4	70 - 130	X509019 - X5B0222-01	26-Feb-25	
EPA 200.7	Potassium	mg/L	28.9	8.28	20.0	103	70 - 130	X509019 - X5B0222-01	26-Feb-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.955	<0.080	1.00	95.5	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Aluminum	mg/L	1.01	<0.080	1.00	101	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Barium	mg/L	1.03	0.0319	1.00	99.3	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Barium	mg/L	1.12	0.0770	1.00	104	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Beryllium	mg/L	0.972	<0.00200	1.00	97.2	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Beryllium	mg/L	1.02	<0.00200	1.00	102	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Boron	mg/L	1.01	<0.0400	1.00	101	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Boron	mg/L	1.07	<0.0400	1.00	105	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Cadmium	mg/L	0.989	<0.0020	1.00	98.9	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Cadmium	mg/L	1.02	<0.0020	1.00	102	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Calcium	mg/L	53.0	34.4	20.0	93.3	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Calcium	mg/L	72.2	52.1	20.0	100	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Chromium	mg/L	1.00	<0.0060	1.00	100	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Chromium	mg/L	1.04	<0.0060	1.00	104	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Cobalt	mg/L	0.957	<0.0060	1.00	95.7	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Cobalt	mg/L	0.993	<0.0060	1.00	99.3	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Copper	mg/L	0.959	<0.0100	1.00	95.9	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Copper	mg/L	1.00	<0.0100	1.00	100	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Iron	mg/L	9.88	<0.100	10.0	98.8	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Iron	mg/L	10.5	<0.100	10.0	105	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Lead	mg/L	0.993	<0.0075	1.00	99.3	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Lead	mg/L	1.02	<0.0075	1.00	102	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Lithium	mg/L	0.990	<0.040	1.00	99.0	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Lithium	mg/L	1.06	<0.040	1.00	106	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Magnesium	mg/L	31.4	11.8	20.0	97.8	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Magnesium	mg/L	29.2	8.56	20.0	103	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Manganese	mg/L	0.994	<0.0080	1.00	98.7	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Manganese	mg/L	1.04	0.0147	1.00	103	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Molybdenum	mg/L	1.00	<0.0080	1.00	100	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Molybdenum	mg/L	1.05	0.0100	1.00	104	70 - 130	X509127 - X5B0200-03	04-Mar-25	

SVL holds the following certifications:

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

Work order Report Page 8 of 11

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0248**

Reported: 07-Mar-25 08:53

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Nickel	mg/L	0.959	<0.0100	1.00	95.9	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Nickel	mg/L	0.998	<0.0100	1.00	99.2	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Potassium	mg/L	20.3	0.75	20.0	97.7	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Potassium	mg/L	21.9	1.16	20.0	104	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Silver	mg/L	0.0494	<0.0050	0.0500	98.8	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Silver	mg/L	0.0522	<0.0050	0.0500	104	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Sodium	mg/L	29.3	11.2	19.0	95.4	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Sodium	mg/L	49.2	29.9	19.0	101	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Vanadium	mg/L	1.01	<0.0050	1.00	101	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Vanadium	mg/L	1.05	<0.0050	1.00	105	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Zinc	mg/L	0.996	<0.0100	1.00	99.6	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Zinc	mg/L	1.03	<0.0100	1.00	103	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.8	Antimony	mg/L	0.0232	<0.0100	0.0250	92.7	70 - 130	X509169 - X5B0222-01	04-Mar-25	D17
EPA 200.8	Antimony	mg/L	0.0275	<0.0100	0.0250	110	70 - 130	X509169 - X5B0303-01	04-Mar-25	D17
EPA 200.8	Arsenic	mg/L	0.273	0.270	0.0250	0.30R>S	70 - 130	X509169 - X5B0222-01	04-Mar-25	D17,M4
EPA 200.8	Arsenic	mg/L	0.439	0.408	0.0250	125	70 - 130	X509169 - X5B0303-01	04-Mar-25	D17
EPA 200.8	Selenium	mg/L	0.0574	0.0361	0.0250	85.2	70 - 130	X509169 - X5B0222-01	04-Mar-25	D17
EPA 200.8	Selenium	mg/L	0.0617	0.0410	0.0250	82.8	70 - 130	X509169 - X5B0303-01	04-Mar-25	D17
EPA 200.8	Thallium	mg/L	0.0251	<0.00200	0.0250	100	70 - 130	X509169 - X5B0222-01	04-Mar-25	D17
EPA 200.8	Thallium	mg/L	0.0317	<0.00200	0.0250	127	70 - 130	X509169 - X5B0303-01	04-Mar-25	D17
EPA 200.8	Uranium	mg/L	2.06	2.11	0.0250	0.30R>S	70 - 130	X509169 - X5B0222-01	04-Mar-25	D17,M4
EPA 200.8	Uranium	mg/L	5.83	5.55	0.0250	0.30R>S	70 - 130	X509169 - X5B0303-01	04-Mar-25	M4

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00200	<0.000200	0.00200	100	70 - 130	X509101 - X5B0190-01	03-Mar-25	
EPA 245.1	Mercury	mg/L	0.00207	<0.000200	0.00200	104	70 - 130	X509101 - X5B0222-01	03-Mar-25	

Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.114	<0.0050	0.100	114	79 - 121	X510020 - X5B0337-04	05-Mar-25	
EPA 335.4	Cyanide (total)	mg/L	0.0956	<0.0050	0.100	95.6	90 - 110	X509001 - X5B0222-02	25-Feb-25	
EPA 350.1	Ammonia as N	mg/L	4.40	3.81	1.00	0.30R>S	90 - 110	X509135 - X5B0296-01	28-Feb-25	M4
OIA 1677	Cyanide (WAD)	mg/L	0.0901	<0.0050	0.100	90.1	82 - 118	X509004 - X5B0190-02	24-Feb-25	R4

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	25.6	22.6	3.00	97.2	90 - 110	X508167 - X5B0239-01	21-Feb-25	
EPA 300.0	Fluoride	mg/L	4.12	2.36	2.00	88.4	90 - 110	X508167 - X5B0239-01	21-Feb-25	M2
EPA 300.0	Nitrate as N	mg/L	10.1	8.39	2.00	0.30R>S	90 - 110	X508167 - X5B0239-01	21-Feb-25	M4
EPA 300.0	Nitrate+Nitrite as N	mg/L	12.3	8.39	4.00	96.9	90 - 110	X508167 - X5B0239-01	21-Feb-25	
EPA 300.0	Nitrite as N	mg/L	2.16	<0.050	2.00	106	90 - 110	X508167 - X5B0239-01	21-Feb-25	
EPA 300.0	Sulfate as SO4	mg/L	413	415	10.0	0.30R>S	90 - 110	X508167 - X5B0239-01	21-Feb-25	M4

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	444	410	20.0	8.0	20	96	X509019 - X5B0222-01	
EPA 200.7	Magnesium	mg/L	334	326	20.0	2.2	20	109	X509019 - X5B0222-01	
EPA 200.7	Potassium	mg/L	29.7	28.9	20.0	2.7	20	107	X509019 - X5B0222-01	



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Kellogg, ID 83837-0929

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Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5B0248**

Reported: 07-Mar-25 08:53

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)										
Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.963	0.955	1.00	0.8	20	96.3	X509127 - X5B0200-01	
EPA 200.7	Barium	mg/L	1.03	1.03	1.00	0.7	20	100	X509127 - X5B0200-01	
EPA 200.7	Beryllium	mg/L	0.960	0.972	1.00	1.2	20	96.0	X509127 - X5B0200-01	
EPA 200.7	Boron	mg/L	1.01	1.01	1.00	0.2	20	101	X509127 - X5B0200-01	
EPA 200.7	Cadmium	mg/L	0.970	0.989	1.00	2.0	20	97.0	X509127 - X5B0200-01	
EPA 200.7	Calcium	mg/L	53.4	53.0	20.0	0.6	20	94.9	X509127 - X5B0200-01	
EPA 200.7	Chromium	mg/L	0.996	1.00	1.00	0.4	20	99.6	X509127 - X5B0200-01	
EPA 200.7	Cobalt	mg/L	0.936	0.957	1.00	2.2	20	93.6	X509127 - X5B0200-01	
EPA 200.7	Copper	mg/L	0.955	0.959	1.00	0.4	20	95.5	X509127 - X5B0200-01	
EPA 200.7	Iron	mg/L	10.0	9.88	10.0	1.2	20	100	X509127 - X5B0200-01	
EPA 200.7	Lead	mg/L	0.971	0.993	1.00	2.2	20	97.1	X509127 - X5B0200-01	
EPA 200.7	Lithium	mg/L	0.988	0.990	1.00	0.2	20	98.8	X509127 - X5B0200-01	
EPA 200.7	Magnesium	mg/L	31.3	31.4	20.0	0.2	20	97.5	X509127 - X5B0200-01	
EPA 200.7	Manganese	mg/L	0.985	0.994	1.00	0.9	20	97.8	X509127 - X5B0200-01	
EPA 200.7	Molybdenum	mg/L	0.985	1.00	1.00	1.7	20	98.5	X509127 - X5B0200-01	
EPA 200.7	Nickel	mg/L	0.941	0.959	1.00	1.9	20	94.1	X509127 - X5B0200-01	
EPA 200.7	Potassium	mg/L	20.5	20.3	20.0	0.8	20	98.6	X509127 - X5B0200-01	
EPA 200.7	Silver	mg/L	0.0501	0.0494	0.0500	1.5	20	100	X509127 - X5B0200-01	
EPA 200.7	Sodium	mg/L	29.5	29.3	19.0	0.5	20	96.1	X509127 - X5B0200-01	
EPA 200.7	Vanadium	mg/L	1.00	1.01	1.00	0.9	20	100	X509127 - X5B0200-01	
EPA 200.7	Zinc	mg/L	0.981	0.996	1.00	1.6	20	98.1	X509127 - X5B0200-01	
EPA 200.8	Antimony	mg/L	0.0256	0.0232	0.0250	10.0	20	102	X509169 - X5B0222-01	D17
EPA 200.8	Arsenic	mg/L	0.300	0.273	0.0250	9.3	20	117	X509169 - X5B0222-01	D17
EPA 200.8	Selenium	mg/L	0.0566	0.0574	0.0250	1.3	20	82.2	X509169 - X5B0222-01	D17
EPA 200.8	Thallium	mg/L	0.0278	0.0251	0.0250	10.2	20	111	X509169 - X5B0222-01	D17
EPA 200.8	Uranium	mg/L	2.28	2.06	0.0250	10.1	20	0.30R>S	X509169 - X5B0222-01	D17,M4
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00221	0.00200	0.00200	10.1	20	111	X509101 - X5B0190-01	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.114	0.114	0.100	0.4	11	114	X510020 - X5B0337-04	
EPA 335.4	Cyanide (total)	mg/L	0.105	0.0956	0.100	9.7	20	105	X509001 - X5B0222-02	
EPA 350.1	Ammonia as N	mg/L	4.44	4.40	1.00	0.7	20	0.30R>S	X509135 - X5B0296-01	M4
OIA 1677	Cyanide (WAD)	mg/L	0.117	0.0901	0.100	25.6	11	117	X509004 - X5B0190-02	R4
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	25.6	25.6	3.00	0.1	20	97.9	X508167 - X5B0239-01	
EPA 300.0	Fluoride	mg/L	4.08	4.12	2.00	1.1	20	86.1	X508167 - X5B0239-01	M2
EPA 300.0	Nitrate as N	mg/L	9.91	10.1	2.00	1.9	20	0.30R>S	X508167 - X5B0239-01	M4
EPA 300.0	Nitrate+Nitrite as N	mg/L	12.1	12.3	4.00	1.1	20	93.7	X508167 - X5B0239-01	
EPA 300.0	Nitrite as N	mg/L	2.22	2.16	2.00	2.8	20	109	X508167 - X5B0239-01	
EPA 300.0	Sulfate as SO4	mg/L	413	413	10.0	0.1	20	0.30R>S	X508167 - X5B0239-01	M4



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Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0248**

Reported: 07-Mar-25 08:53

Notes and Definitions

D13	Due to noticeable turbidity or opacity, a sample dilution was performed.
D17	Due to an internal standard failure at a lower dilution, a sample dilution was performed.
D18	Due to a published chemical interference, a sample dilution was performed.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
Q12	Sample was received and analyzed with pH <12.
Q5	Sample was received with inadequate preservation, but preserved by the laboratory.
R4	MS/MSD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable



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Kellogg, ID 83837-0929

(208) 784-1258

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

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0247**

Reported: 07-Mar-25 08:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-127E	X5B0247-01	Ground Water	20-Feb-25 10:01	JC	21-Feb-2025	Q5

Sample preparation is defined by the client as per their Data Quality Objectives.

This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.

Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.

The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of SVL Analytical, Inc.

Case Narrative: X5B0247

Samples treated with CdCO₃ before CN analysis for sulfide interference at client request.

The state of origin only accredits for drinking water analyses.



One Government Gulch - PO Box 929

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Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5B0247**

Reported: 07-Mar-25 08:46

Client Sample ID: **GVMW-127E**

Sampled: 20-Feb-25 10:01

Received: 21-Feb-25

Sampled By: JC

SVL Sample ID: **X5B0247-01 (Ground Water)**

Sample Report Page 1 of 2

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

EPA 200.7	Calcium	416	mg/L	0.100	0.069		X509019	NMS	02/26/25 14:25	
EPA 200.7	Magnesium	190	mg/L	0.500	0.090		X509019	NMS	02/26/25 14:25	
EPA 200.7	Potassium	5.42	mg/L	0.50	0.18		X509019	NMS	02/26/25 14:25	
SM 2340 B	Hardness (as CaCO3)	1820	mg/L	2.31	0.543		N/A		03/04/25 09:51	

Metals (Dissolved)

EPA 200.7	Aluminum	293	mg/L	0.080	0.054		X509127	NMS	03/04/25 09:51	
EPA 200.7	Barium	0.0156	mg/L	0.0020	0.0019		X509127	NMS	03/04/25 09:51	
EPA 200.7	Beryllium	0.218	mg/L	0.00200	0.00080		X509127	NMS	03/04/25 09:51	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X509127	NMS	03/04/25 09:51	
EPA 200.7	Cadmium	0.628	mg/L	0.0020	0.0016		X509127	NMS	03/04/25 09:51	
EPA 200.7	Calcium	468	mg/L	0.100	0.069		X509127	NMS	03/04/25 09:51	
EPA 200.7	Chromium	0.0328	mg/L	0.0060	0.0020		X509127	NMS	03/04/25 09:51	
EPA 200.7	Cobalt	0.553	mg/L	0.0060	0.0046		X509127	NMS	03/04/25 09:51	
EPA 200.7	Copper	0.704	mg/L	0.0100	0.0027		X509127	NMS	03/04/25 09:51	
EPA 200.7	Iron	1.67	mg/L	0.100	0.056		X509127	NMS	03/04/25 09:51	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X509127	NMS	03/05/25 10:31	
EPA 200.7	Lithium	0.191	mg/L	0.040	0.025		X509127	NMS	03/04/25 09:51	
EPA 200.7	Magnesium	223	mg/L	0.500	0.090		X509127	NMS	03/04/25 09:51	
EPA 200.7	Manganese	98.3	mg/L	0.0800	0.0340	10	X509127	NMS	03/04/25 10:38	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X509127	NMS	03/04/25 09:51	
EPA 200.7	Nickel	1.01	mg/L	0.0100	0.0048		X509127	NMS	03/04/25 09:51	
EPA 200.7	Potassium	5.27	mg/L	0.50	0.18		X509127	NMS	03/04/25 09:51	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X509127	NMS	03/04/25 09:51	
EPA 200.7	Sodium	47.1	mg/L	0.50	0.12		X509127	NMS	03/04/25 09:51	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X509127	NMS	03/04/25 09:51	
EPA 200.7	Zinc	24.7	mg/L	0.0100	0.0054		X509127	NMS	03/04/25 09:51	
EPA 200.8	Antimony	< 0.0100	mg/L	0.0100	0.00720	10	X509169	JRR	03/04/25 09:16	D17
EPA 200.8	Arsenic	0.0755	mg/L	0.0100	0.00210	10	X509169	JRR	03/04/25 09:16	D17
EPA 200.8	Selenium	< 0.0100	mg/L	0.0100	0.00240	10	X509169	SMU	03/04/25 14:29	D17
EPA 200.8	Thallium	< 0.00200	mg/L	0.00200	0.000800	10	X509169	JRR	03/04/25 09:16	D17
EPA 200.8	Uranium	0.874	mg/L	0.00100	0.000520	10	X509169	JRR	03/04/25 09:16	D17

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X509101	SJN	03/03/25 10:12	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X510020	DD	03/05/25 12:06	
EPA 335.4	Cyanide (total)	0.0191	mg/L	0.0050	0.0038		X509001	JPM	02/25/25 09:32	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X509135	DD	02/28/25 10:21	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X509003	JPM	02/24/25 15:31	
SM 2310 B	Acidity to pH 8.3	1600	mg/L as CaCO3	10.0			X510197	MWD	03/06/25 14:32	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X509080	MWD	03/03/25 11:02	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X509080	MWD	03/03/25 11:02	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X509080	MWD	03/03/25 11:02	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X509080	MWD	03/03/25 11:02	
SM 2540 C	Total Diss. Solids	4550	mg/L	40			X508181	TJL	02/25/25 13:50	
SM 2540 D	Total Susp. Solids	25.0	mg/L	5.0			X508182	TJL	02/26/25 08:20	
SM 4500 H B	pH @17.3°C	4.0	pH Units				X509080	MWD	03/03/25 11:02	H5

SVL holds the following certifications:

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

Work order Report Page 2 of 9



One Government Gulch - PO Box 929
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Newmont - Cripple Creek & Victor Post Office Box 191 Victor, CO 80860	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5B0247 Reported: 07-Mar-25 08:46
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Client Sample ID: GVMW-127E
SVL Sample ID: X5B0247-01 (Ground Water)

Sampled: 20-Feb-25 10:01
Received: 21-Feb-25
Sampled By: JC

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	21.5	mg/L	1.00	0.11	5	X508167	RS	02/21/25 15:34	
EPA 300.0	Fluoride	7.48	mg/L	0.500	0.085	5	X508167	RS	02/21/25 15:34	
EPA 300.0	Nitrate as N	2.08	mg/L	0.250	0.065	5	X508167	RS	02/21/25 15:34	D18
EPA 300.0	Nitrate+Nitrite as N	2.08	mg/L	0.500	0.220	5	X508167	RS	02/21/25 15:34	D18
EPA 300.0	Nitrite as N	< 0.250	mg/L	0.250	0.155	5	X508167	RS	02/21/25 15:34	D18
EPA 300.0	Sulfate as SO4	3570	mg/L	30.0	18.0	100	X508167	RS	02/21/25 15:50	

Cation/Anion Balance and TDS Ratios

Cation Sum: 75.6 meq/L	Anion Sum: 75.5 meq/L	C/A Balance: 0.08 %	Calculated TDS: 4309	TDS/cTDS: 1.06
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This data has been reviewed for accuracy and has been authorized for release.

Kristi A. Groth

Kristi A. Groth
Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0247**

Reported: 07-Mar-25 08:46

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X509019	26-Feb-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X509019	26-Feb-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X509019	26-Feb-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X509127	04-Mar-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X509127	04-Mar-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X509127	04-Mar-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X509127	04-Mar-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X509127	04-Mar-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X509127	04-Mar-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X509127	04-Mar-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X509127	04-Mar-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X509127	04-Mar-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X509127	04-Mar-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X509127	05-Mar-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X509127	04-Mar-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X509127	04-Mar-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X509127	04-Mar-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X509127	04-Mar-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X509127	04-Mar-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X509127	04-Mar-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X509127	04-Mar-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X509127	04-Mar-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X509127	04-Mar-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X509127	04-Mar-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X509169	04-Mar-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X509169	04-Mar-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X509169	04-Mar-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X509169	04-Mar-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X509169	04-Mar-25	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X509101	03-Mar-25	
Classical Chemistry Parameters								
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X510020	05-Mar-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X509001	25-Feb-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X509135	28-Feb-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X509003	24-Feb-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X510197	06-Mar-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X509080	03-Mar-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X509080	03-Mar-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X509080	03-Mar-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X509080	03-Mar-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X508181	25-Feb-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X508182	26-Feb-25	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X508167	21-Feb-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X508167	21-Feb-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X508167	21-Feb-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X508167	21-Feb-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X508167	21-Feb-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X508167	21-Feb-25	

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0247**

Reported: 07-Mar-25 08:46

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Calcium	mg/L	20.3	20.0	101	85 - 115	X509019	26-Feb-25	
EPA 200.7	Magnesium	mg/L	20.3	20.0	102	85 - 115	X509019	26-Feb-25	
EPA 200.7	Potassium	mg/L	20.0	20.0	100	85 - 115	X509019	26-Feb-25	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.960	1.00	96.0	85 - 115	X509127	04-Mar-25	
EPA 200.7	Barium	mg/L	0.999	1.00	99.9	85 - 115	X509127	04-Mar-25	
EPA 200.7	Beryllium	mg/L	0.973	1.00	97.3	85 - 115	X509127	04-Mar-25	
EPA 200.7	Boron	mg/L	0.992	1.00	99.2	85 - 115	X509127	04-Mar-25	
EPA 200.7	Cadmium	mg/L	0.974	1.00	97.4	85 - 115	X509127	04-Mar-25	
EPA 200.7	Calcium	mg/L	19.3	20.0	96.4	85 - 115	X509127	04-Mar-25	
EPA 200.7	Chromium	mg/L	0.991	1.00	99.1	85 - 115	X509127	04-Mar-25	
EPA 200.7	Cobalt	mg/L	0.953	1.00	95.3	85 - 115	X509127	04-Mar-25	
EPA 200.7	Copper	mg/L	0.969	1.00	96.9	85 - 115	X509127	04-Mar-25	
EPA 200.7	Iron	mg/L	9.97	10.0	99.7	85 - 115	X509127	04-Mar-25	
EPA 200.7	Lead	mg/L	0.974	1.00	97.4	85 - 115	X509127	04-Mar-25	
EPA 200.7	Lithium	mg/L	0.962	1.00	96.2	85 - 115	X509127	04-Mar-25	
EPA 200.7	Magnesium	mg/L	18.9	20.0	94.4	85 - 115	X509127	04-Mar-25	
EPA 200.7	Manganese	mg/L	0.982	1.00	98.2	85 - 115	X509127	04-Mar-25	
EPA 200.7	Molybdenum	mg/L	0.990	1.00	99.0	85 - 115	X509127	04-Mar-25	
EPA 200.7	Nickel	mg/L	0.955	1.00	95.5	85 - 115	X509127	04-Mar-25	
EPA 200.7	Potassium	mg/L	19.7	20.0	98.5	85 - 115	X509127	04-Mar-25	
EPA 200.7	Silver	mg/L	0.0496	0.0500	99.3	85 - 115	X509127	04-Mar-25	
EPA 200.7	Sodium	mg/L	18.6	19.0	98.0	85 - 115	X509127	04-Mar-25	
EPA 200.7	Vanadium	mg/L	0.998	1.00	99.8	85 - 115	X509127	04-Mar-25	
EPA 200.7	Zinc	mg/L	0.970	1.00	97.0	85 - 115	X509127	04-Mar-25	
EPA 200.8	Antimony	mg/L	0.0243	0.0250	97.1	85 - 115	X509169	04-Mar-25	
EPA 200.8	Arsenic	mg/L	0.0232	0.0250	92.7	85 - 115	X509169	04-Mar-25	
EPA 200.8	Selenium	mg/L	0.0217	0.0250	86.7	85 - 115	X509169	04-Mar-25	
EPA 200.8	Thallium	mg/L	0.0251	0.0250	101	85 - 115	X509169	04-Mar-25	
EPA 200.8	Uranium	mg/L	0.0272	0.0250	109	85 - 115	X509169	04-Mar-25	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00198	0.00200	98.9	85 - 115	X509101	03-Mar-25	
Classical Chemistry Parameters									
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.106	0.100	106	90 - 110	X510020	05-Mar-25	
EPA 335.4	Cyanide (total)	mg/L	0.102	0.100	102	90 - 110	X509001	25-Feb-25	
EPA 335.4	Cyanide (total)	mg/L	0.100	0.100	100	90 - 110	X509001	25-Feb-25	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X509001	25-Feb-25	
EPA 335.4	Cyanide (total)	mg/L	0.0979	0.100	97.9	90 - 110	X509001	25-Feb-25	
EPA 350.1	Ammonia as N	mg/L	0.989	1.00	98.9	90 - 110	X509135	28-Feb-25	
OIA 1677	Cyanide (WAD)	mg/L	0.106	0.100	106	90 - 110	X509003	24-Feb-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	702	706	99.5	95.4 - 104	X510197	06-Mar-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.2	9.93	103	94 - 106	X509080	03-Mar-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	399	397	101	94 - 106	X509080	03-Mar-25	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X508182	26-Feb-25	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.13	3.00	104	90 - 110	X508167	21-Feb-25	
EPA 300.0	Fluoride	mg/L	2.08	2.00	104	90 - 110	X508167	21-Feb-25	
EPA 300.0	Nitrate as N	mg/L	2.04	2.00	102	90 - 110	X508167	21-Feb-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.74	4.50	105	90 - 110	X508167	21-Feb-25	
EPA 300.0	Nitrite as N	mg/L	2.70	2.50	108	90 - 110	X508167	21-Feb-25	
EPA 300.0	Sulfate as SO4	mg/L	10.5	10.0	105	90 - 110	X508167	21-Feb-25	

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0247**

Reported: 07-Mar-25 08:46

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO ₃	1600	1600	0.0	20	X510197 - X5B0247-01	06-Mar-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X509080 - X5B0248-01	03-Mar-25	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X509080 - X5B0248-01	03-Mar-25	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X509080 - X5B0248-01	03-Mar-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X509080 - X5B0248-01	03-Mar-25	
SM 2540 C	Total Diss. Solids	mg/L	741	758	2.3	10	X508181 - X5B0239-01	25-Feb-25	
SM 2540 D	Total Susp. Solids	mg/L	24.0	25.0	4.1	10	X508182 - X5B0247-01	26-Feb-25	
SM 2540 D	Total Susp. Solids	mg/L	5.0	<5.0	<RL	10	X508182 - X5B0259-01	26-Feb-25	
SM 4500 H B	pH @17.2°C	pH Units	3.7	3.6	0.8	20	X509080 - X5B0248-01	03-Mar-25	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	410	425	20.0	0.30R>S	70 - 130	X509019 - X5B0222-01	26-Feb-25	M3
EPA 200.7	Magnesium	mg/L	326	312	20.0	72.4	70 - 130	X509019 - X5B0222-01	26-Feb-25	
EPA 200.7	Potassium	mg/L	28.9	8.28	20.0	103	70 - 130	X509019 - X5B0222-01	26-Feb-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.955	<0.080	1.00	95.5	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Aluminum	mg/L	1.01	<0.080	1.00	101	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Barium	mg/L	1.03	0.0319	1.00	99.3	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Barium	mg/L	1.12	0.0770	1.00	104	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Beryllium	mg/L	0.972	<0.00200	1.00	97.2	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Beryllium	mg/L	1.02	<0.00200	1.00	102	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Boron	mg/L	1.01	<0.0400	1.00	101	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Boron	mg/L	1.07	<0.0400	1.00	105	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Cadmium	mg/L	0.989	<0.0020	1.00	98.9	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Cadmium	mg/L	1.02	<0.0020	1.00	102	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Calcium	mg/L	53.0	34.4	20.0	93.3	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Calcium	mg/L	72.2	52.1	20.0	100	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Chromium	mg/L	1.00	<0.0060	1.00	100	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Chromium	mg/L	1.04	<0.0060	1.00	104	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Cobalt	mg/L	0.957	<0.0060	1.00	95.7	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Cobalt	mg/L	0.993	<0.0060	1.00	99.3	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Copper	mg/L	0.959	<0.0100	1.00	95.9	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Copper	mg/L	1.00	<0.0100	1.00	100	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Iron	mg/L	9.88	<0.100	10.0	98.8	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Iron	mg/L	10.5	<0.100	10.0	105	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Lead	mg/L	0.993	<0.0075	1.00	99.3	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Lead	mg/L	1.02	<0.0075	1.00	102	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Lithium	mg/L	0.990	<0.040	1.00	99.0	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Lithium	mg/L	1.06	<0.040	1.00	106	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Magnesium	mg/L	31.4	11.8	20.0	97.8	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Magnesium	mg/L	29.2	8.56	20.0	103	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Manganese	mg/L	0.994	<0.0080	1.00	98.7	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Manganese	mg/L	1.04	0.0147	1.00	103	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Molybdenum	mg/L	1.00	<0.0080	1.00	100	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Molybdenum	mg/L	1.05	0.0100	1.00	104	70 - 130	X509127 - X5B0200-03	04-Mar-25	

SVL holds the following certifications:

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

Work order Report Page 6 of 9

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0247**

Reported: 07-Mar-25 08:46

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Nickel	mg/L	0.959	<0.0100	1.00	95.9	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Nickel	mg/L	0.998	<0.0100	1.00	99.2	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Potassium	mg/L	20.3	0.75	20.0	97.7	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Potassium	mg/L	21.9	1.16	20.0	104	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Silver	mg/L	0.0494	<0.0050	0.0500	98.8	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Silver	mg/L	0.0522	<0.0050	0.0500	104	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Sodium	mg/L	29.3	11.2	19.0	95.4	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Sodium	mg/L	49.2	29.9	19.0	101	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Vanadium	mg/L	1.01	<0.0050	1.00	101	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Vanadium	mg/L	1.05	<0.0050	1.00	105	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Zinc	mg/L	0.996	<0.0100	1.00	99.6	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Zinc	mg/L	1.03	<0.0100	1.00	103	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.8	Antimony	mg/L	0.0232	<0.0100	0.0250	92.7	70 - 130	X509169 - X5B0222-01	04-Mar-25	D17
EPA 200.8	Antimony	mg/L	0.0275	<0.0100	0.0250	110	70 - 130	X509169 - X5B0303-01	04-Mar-25	D17
EPA 200.8	Arsenic	mg/L	0.273	0.270	0.0250	0.30R>S	70 - 130	X509169 - X5B0222-01	04-Mar-25	D17,M4
EPA 200.8	Arsenic	mg/L	0.439	0.408	0.0250	125	70 - 130	X509169 - X5B0303-01	04-Mar-25	D17
EPA 200.8	Selenium	mg/L	0.0574	0.0361	0.0250	85.2	70 - 130	X509169 - X5B0222-01	04-Mar-25	D17
EPA 200.8	Selenium	mg/L	0.0617	0.0410	0.0250	82.8	70 - 130	X509169 - X5B0303-01	04-Mar-25	D17
EPA 200.8	Thallium	mg/L	0.0251	<0.00200	0.0250	100	70 - 130	X509169 - X5B0222-01	04-Mar-25	D17
EPA 200.8	Thallium	mg/L	0.0317	<0.00200	0.0250	127	70 - 130	X509169 - X5B0303-01	04-Mar-25	D17
EPA 200.8	Uranium	mg/L	2.06	2.11	0.0250	0.30R>S	70 - 130	X509169 - X5B0222-01	04-Mar-25	D17,M4
EPA 200.8	Uranium	mg/L	5.83	5.55	0.0250	0.30R>S	70 - 130	X509169 - X5B0303-01	04-Mar-25	M4

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00200	<0.000200	0.00200	100	70 - 130	X509101 - X5B0190-01	03-Mar-25	
EPA 245.1	Mercury	mg/L	0.00207	<0.000200	0.00200	104	70 - 130	X509101 - X5B0222-01	03-Mar-25	

Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.114	<0.0050	0.100	114	79 - 121	X510020 - X5B0337-04	05-Mar-25	
EPA 335.4	Cyanide (total)	mg/L	0.0956	<0.0050	0.100	95.6	90 - 110	X509001 - X5B0222-02	25-Feb-25	
EPA 350.1	Ammonia as N	mg/L	4.40	3.81	1.00	0.30R>S	90 - 110	X509135 - X5B0296-01	28-Feb-25	M4
OIA 1677	Cyanide (WAD)	mg/L	0.107	<0.0050	0.100	107	82 - 118	X509003 - X5B0126-01	24-Feb-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	25.6	22.6	3.00	97.2	90 - 110	X508167 - X5B0239-01	21-Feb-25	
EPA 300.0	Fluoride	mg/L	4.12	2.36	2.00	88.4	90 - 110	X508167 - X5B0239-01	21-Feb-25	M2
EPA 300.0	Nitrate as N	mg/L	10.1	8.39	2.00	0.30R>S	90 - 110	X508167 - X5B0239-01	21-Feb-25	M4
EPA 300.0	Nitrate+Nitrite as N	mg/L	12.3	8.39	4.00	96.9	90 - 110	X508167 - X5B0239-01	21-Feb-25	
EPA 300.0	Nitrite as N	mg/L	2.16	<0.050	2.00	106	90 - 110	X508167 - X5B0239-01	21-Feb-25	
EPA 300.0	Sulfate as SO4	mg/L	413	415	10.0	0.30R>S	90 - 110	X508167 - X5B0239-01	21-Feb-25	M4

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	444	410	20.0	8.0	20	96	X509019 - X5B0222-01	
EPA 200.7	Magnesium	mg/L	334	326	20.0	2.2	20	109	X509019 - X5B0222-01	
EPA 200.7	Potassium	mg/L	29.7	28.9	20.0	2.7	20	107	X509019 - X5B0222-01	



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Kellogg, ID 83837-0929

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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5B0247**

Reported: 07-Mar-25 08:46

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)										
Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.963	0.955	1.00	0.8	20	96.3	X509127 - X5B0200-01	
EPA 200.7	Barium	mg/L	1.03	1.03	1.00	0.7	20	100	X509127 - X5B0200-01	
EPA 200.7	Beryllium	mg/L	0.960	0.972	1.00	1.2	20	96.0	X509127 - X5B0200-01	
EPA 200.7	Boron	mg/L	1.01	1.01	1.00	0.2	20	101	X509127 - X5B0200-01	
EPA 200.7	Cadmium	mg/L	0.970	0.989	1.00	2.0	20	97.0	X509127 - X5B0200-01	
EPA 200.7	Calcium	mg/L	53.4	53.0	20.0	0.6	20	94.9	X509127 - X5B0200-01	
EPA 200.7	Chromium	mg/L	0.996	1.00	1.00	0.4	20	99.6	X509127 - X5B0200-01	
EPA 200.7	Cobalt	mg/L	0.936	0.957	1.00	2.2	20	93.6	X509127 - X5B0200-01	
EPA 200.7	Copper	mg/L	0.955	0.959	1.00	0.4	20	95.5	X509127 - X5B0200-01	
EPA 200.7	Iron	mg/L	10.0	9.88	10.0	1.2	20	100	X509127 - X5B0200-01	
EPA 200.7	Lead	mg/L	0.971	0.993	1.00	2.2	20	97.1	X509127 - X5B0200-01	
EPA 200.7	Lithium	mg/L	0.988	0.990	1.00	0.2	20	98.8	X509127 - X5B0200-01	
EPA 200.7	Magnesium	mg/L	31.3	31.4	20.0	0.2	20	97.5	X509127 - X5B0200-01	
EPA 200.7	Manganese	mg/L	0.985	0.994	1.00	0.9	20	97.8	X509127 - X5B0200-01	
EPA 200.7	Molybdenum	mg/L	0.985	1.00	1.00	1.7	20	98.5	X509127 - X5B0200-01	
EPA 200.7	Nickel	mg/L	0.941	0.959	1.00	1.9	20	94.1	X509127 - X5B0200-01	
EPA 200.7	Potassium	mg/L	20.5	20.3	20.0	0.8	20	98.6	X509127 - X5B0200-01	
EPA 200.7	Silver	mg/L	0.0501	0.0494	0.0500	1.5	20	100	X509127 - X5B0200-01	
EPA 200.7	Sodium	mg/L	29.5	29.3	19.0	0.5	20	96.1	X509127 - X5B0200-01	
EPA 200.7	Vanadium	mg/L	1.00	1.01	1.00	0.9	20	100	X509127 - X5B0200-01	
EPA 200.7	Zinc	mg/L	0.981	0.996	1.00	1.6	20	98.1	X509127 - X5B0200-01	
EPA 200.8	Antimony	mg/L	0.0256	0.0232	0.0250	10.0	20	102	X509169 - X5B0222-01	D17
EPA 200.8	Arsenic	mg/L	0.300	0.273	0.0250	9.3	20	117	X509169 - X5B0222-01	D17
EPA 200.8	Selenium	mg/L	0.0566	0.0574	0.0250	1.3	20	82.2	X509169 - X5B0222-01	D17
EPA 200.8	Thallium	mg/L	0.0278	0.0251	0.0250	10.2	20	111	X509169 - X5B0222-01	D17
EPA 200.8	Uranium	mg/L	2.28	2.06	0.0250	10.1	20	0.30R>S	X509169 - X5B0222-01	D17,M4

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00221	0.00200	0.00200	10.1	20	111	X509101 - X5B0190-01	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.114	0.114	0.100	0.4	11	114	X510020 - X5B0337-04	
EPA 335.4	Cyanide (total)	mg/L	0.105	0.0956	0.100	9.7	20	105	X509001 - X5B0222-02	
EPA 350.1	Ammonia as N	mg/L	4.44	4.40	1.00	0.7	20	0.30R>S	X509135 - X5B0296-01	M4
OIA 1677	Cyanide (WAD)	mg/L	0.113	0.107	0.100	5.4	11	113	X509003 - X5B0126-01	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	25.6	25.6	3.00	0.1	20	97.9	X508167 - X5B0239-01	
EPA 300.0	Fluoride	mg/L	4.08	4.12	2.00	1.1	20	86.1	X508167 - X5B0239-01	M2
EPA 300.0	Nitrate as N	mg/L	9.91	10.1	2.00	1.9	20	0.30R>S	X508167 - X5B0239-01	M4
EPA 300.0	Nitrate+Nitrite as N	mg/L	12.1	12.3	4.00	1.1	20	93.7	X508167 - X5B0239-01	
EPA 300.0	Nitrite as N	mg/L	2.22	2.16	2.00	2.8	20	109	X508167 - X5B0239-01	
EPA 300.0	Sulfate as SO4	mg/L	413	413	10.0	0.1	20	0.30R>S	X508167 - X5B0239-01	M4



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Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0247**

Reported: 07-Mar-25 08:46

Notes and Definitions

D17	Due to an internal standard failure at a lower dilution, a sample dilution was performed.
D18	Due to a published chemical interference, a sample dilution was performed.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
Q5	Sample was received with inadequate preservation, but preserved by the laboratory.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable



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Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0330**

Reported: 12-Mar-25 12:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-10	X5B0330-01	Ground Water	26-Feb-25 14:19	TR	27-Feb-2025	

Sample preparation is defined by the client as per their Data Quality Objectives.

This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.

Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.

The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of SVL Analytical, Inc.

Case Narrative: X5B0330

The state of origin only accredits for drinking water analyses.

Samples treated with CdCO₃ before CN analysis for sulfide interference at client request.

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0330**

Reported: 12-Mar-25 12:24

Client Sample ID: **GVMW-10**

Sampled: 26-Feb-25 14:19

SVL Sample ID: **X5B0330-01 (Ground Water)**

Received: 27-Feb-25

Sampled By: TR

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	362	mg/L	0.100	0.069		X510019	NMS	03/05/25 08:34	
EPA 200.7	Magnesium	154	mg/L	0.500	0.090		X510019	NMS	03/05/25 08:34	
EPA 200.7	Potassium	2.89	mg/L	0.50	0.18		X510019	NMS	03/05/25 08:34	
SM 2340 B	Hardness (as CaCO3)	1540	mg/L	2.31	0.543		N/A		03/10/25 09:00	

Metals (Dissolved)

EPA 200.7	Aluminum	1.13	mg/L	0.080	0.054		X510203	NMS	03/10/25 09:00	
EPA 200.7	Barium	0.0161	mg/L	0.0020	0.0019		X510203	NMS	03/10/25 09:00	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X510203	NMS	03/10/25 09:00	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X510203	NMS	03/10/25 09:00	
EPA 200.7	Cadmium	0.0116	mg/L	0.0020	0.0016		X510203	NMS	03/10/25 09:00	
EPA 200.7	Calcium	403	mg/L	0.100	0.069		X510203	NMS	03/10/25 09:00	M3
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X510203	NMS	03/10/25 09:00	
EPA 200.7	Cobalt	0.0262	mg/L	0.0060	0.0046		X510203	NMS	03/10/25 09:00	
EPA 200.7	Copper	0.0198	mg/L	0.0100	0.0027		X510203	NMS	03/10/25 09:00	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X510203	NMS	03/10/25 09:00	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X510203	NMS	03/10/25 09:00	
EPA 200.7	Lithium	0.104	mg/L	0.040	0.025		X510203	NMS	03/10/25 09:00	
EPA 200.7	Magnesium	168	mg/L	0.500	0.090		X510203	NMS	03/10/25 09:00	M3
EPA 200.7	Manganese	3.73	mg/L	0.0080	0.0034		X510203	NMS	03/10/25 09:00	
EPA 200.7	Molybdenum	0.0373	mg/L	0.0080	0.0034		X510203	NMS	03/10/25 09:00	
EPA 200.7	Nickel	0.0344	mg/L	0.0100	0.0048		X510203	NMS	03/10/25 09:00	
EPA 200.7	Potassium	2.74	mg/L	0.50	0.18		X510203	NMS	03/10/25 09:00	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X510203	NMS	03/10/25 09:00	
EPA 200.7	Sodium	63.2	mg/L	0.50	0.12		X510203	NMS	03/10/25 09:00	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X510203	NMS	03/10/25 09:00	
EPA 200.7	Zinc	0.615	mg/L	0.0100	0.0054		X510203	NMS	03/10/25 09:00	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X509169	JRR	03/04/25 10:34	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X509169	JRR	03/04/25 10:34	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X509169	SMU	03/04/25 15:15	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X509169	JRR	03/04/25 10:34	
EPA 200.8	Uranium	0.0654	mg/L	0.00100	0.000520	10	X509169	JRR	03/04/25 11:06	D17

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X510029	SJN	03/10/25 14:57	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	0.0056	mg/L	0.0050	0.0048		X510021	DD	03/05/25 12:37	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X510007	JPM	03/04/25 14:28	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X510079	JPM	03/07/25 14:39	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X511001	JPM	03/11/25 12:33	M2
SM 2310 B	Acidity to pH 8.3	-311	mg/L as CaCO3	10.0			X510197	MWD	03/06/25 14:32	
SM 2320 B	Total Alkalinity	318	mg/L as CaCO3	1.0			X510134	MWD	03/05/25 15:34	
SM 2320 B	Bicarbonate	318	mg/L as CaCO3	1.0			X510134	MWD	03/05/25 15:34	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X510134	MWD	03/05/25 15:34	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X510134	MWD	03/05/25 15:34	
SM 2540 C	Total Diss. Solids	2120	mg/L	40			X509211	TJL	03/04/25 12:20	
SM 2540 D	Total Susp. Solids	44.0	mg/L	5.0			X509212	TJL	03/04/25 14:00	
SM 4500 H B	pH @17.8°C	7.1	pH Units				X510134	MWD	03/05/25 15:34	H5



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	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5B0330 Reported: 12-Mar-25 12:24
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Client Sample ID: **GVMW-10**
SVL Sample ID: **X5B0330-01 (Ground Water)**

Sampled: 26-Feb-25 14:19
Received: 27-Feb-25
Sampled By: TR

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	5.38	mg/L	0.20	0.02		X509125	RS	02/28/25 00:17	
EPA 300.0	Fluoride	1.20	mg/L	0.100	0.017		X509125	RS	02/28/25 00:17	
EPA 300.0	Nitrate as N	0.111	mg/L	0.050	0.013		X509125	RS	02/28/25 00:17	
EPA 300.0	Nitrate+Nitrite as N	0.128	mg/L	0.100	0.044		X509125	RS	02/28/25 00:17	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X509125	RS	02/28/25 00:17	
EPA 300.0	Sulfate as SO4	1370	mg/L	15.0	9.00	50	X509125	RS	03/01/25 05:17	

Cation/Anion Balance and TDS Ratios

Cation Sum: 33.9 meq/L	Anion Sum: 35.1 meq/L	C/A Balance: -1.80 %	Calculated TDS: 2177	TDS/cTDS: 0.97
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This data has been reviewed for accuracy and has been authorized for release.

Kristi A. Groth

Kristi A. Groth
Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0330**

Reported: 12-Mar-25 12:24

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X510019	05-Mar-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X510019	05-Mar-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X510019	05-Mar-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X510203	10-Mar-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X510203	10-Mar-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X510203	10-Mar-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X510203	10-Mar-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X510203	10-Mar-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X510203	10-Mar-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X510203	10-Mar-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X510203	10-Mar-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X510203	10-Mar-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X510203	10-Mar-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X510203	10-Mar-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X510203	10-Mar-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X510203	10-Mar-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X510203	10-Mar-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X510203	10-Mar-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X510203	10-Mar-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X510203	10-Mar-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X510203	10-Mar-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X510203	10-Mar-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X510203	10-Mar-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X510203	10-Mar-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X509169	04-Mar-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X509169	04-Mar-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X509169	04-Mar-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X509169	04-Mar-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X509169	04-Mar-25	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X510029	10-Mar-25	
Classical Chemistry Parameters								
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X510021	05-Mar-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X510007	04-Mar-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X510079	07-Mar-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X511001	11-Mar-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X510197	06-Mar-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X510134	05-Mar-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X510134	05-Mar-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X510134	05-Mar-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X510134	05-Mar-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X509211	04-Mar-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X509212	04-Mar-25	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X509125	27-Feb-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X509125	27-Feb-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X509125	27-Feb-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X509125	27-Feb-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X509125	27-Feb-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X509125	27-Feb-25	



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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5B0330**

Reported: 12-Mar-25 12:24

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	mg/L	19.2	20.0	96	85 - 115	X510019	05-Mar-25	
EPA 200.7	Magnesium	mg/L	19.1	20.0	95.7	85 - 115	X510019	05-Mar-25	
EPA 200.7	Potassium	mg/L	19.7	20.0	98.5	85 - 115	X510019	05-Mar-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.06	1.00	106	85 - 115	X510203	10-Mar-25	
EPA 200.7	Barium	mg/L	1.10	1.00	110	85 - 115	X510203	10-Mar-25	
EPA 200.7	Beryllium	mg/L	1.04	1.00	104	85 - 115	X510203	10-Mar-25	
EPA 200.7	Boron	mg/L	1.05	1.00	105	85 - 115	X510203	10-Mar-25	
EPA 200.7	Cadmium	mg/L	1.08	1.00	108	85 - 115	X510203	10-Mar-25	
EPA 200.7	Calcium	mg/L	21.3	20.0	107	85 - 115	X510203	10-Mar-25	
EPA 200.7	Chromium	mg/L	1.09	1.00	109	85 - 115	X510203	10-Mar-25	
EPA 200.7	Cobalt	mg/L	1.05	1.00	105	85 - 115	X510203	10-Mar-25	
EPA 200.7	Copper	mg/L	1.03	1.00	103	85 - 115	X510203	10-Mar-25	
EPA 200.7	Iron	mg/L	10.9	10.0	109	85 - 115	X510203	10-Mar-25	
EPA 200.7	Lead	mg/L	1.08	1.00	108	85 - 115	X510203	10-Mar-25	
EPA 200.7	Lithium	mg/L	1.02	1.00	102	85 - 115	X510203	10-Mar-25	
EPA 200.7	Magnesium	mg/L	20.7	20.0	104	85 - 115	X510203	10-Mar-25	
EPA 200.7	Manganese	mg/L	1.08	1.00	108	85 - 115	X510203	10-Mar-25	
EPA 200.7	Molybdenum	mg/L	1.08	1.00	108	85 - 115	X510203	10-Mar-25	
EPA 200.7	Nickel	mg/L	1.07	1.00	107	85 - 115	X510203	10-Mar-25	
EPA 200.7	Potassium	mg/L	21.1	20.0	106	85 - 115	X510203	10-Mar-25	
EPA 200.7	Silver	mg/L	0.0523	0.0500	105	85 - 115	X510203	10-Mar-25	
EPA 200.7	Sodium	mg/L	20.4	19.0	107	85 - 115	X510203	10-Mar-25	
EPA 200.7	Vanadium	mg/L	1.07	1.00	107	85 - 115	X510203	10-Mar-25	
EPA 200.7	Zinc	mg/L	1.06	1.00	106	85 - 115	X510203	10-Mar-25	
EPA 200.8	Antimony	mg/L	0.0243	0.0250	97.1	85 - 115	X509169	04-Mar-25	
EPA 200.8	Arsenic	mg/L	0.0232	0.0250	92.7	85 - 115	X509169	04-Mar-25	
EPA 200.8	Selenium	mg/L	0.0217	0.0250	86.7	85 - 115	X509169	04-Mar-25	
EPA 200.8	Thallium	mg/L	0.0251	0.0250	101	85 - 115	X509169	04-Mar-25	
EPA 200.8	Uranium	mg/L	0.0272	0.0250	109	85 - 115	X509169	04-Mar-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00206	0.00200	103	85 - 115	X510029	10-Mar-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.109	0.100	109	90 - 110	X510021	05-Mar-25	
EPA 335.4	Cyanide (total)	mg/L	0.0961	0.100	96.1	90 - 110	X510007	04-Mar-25	
EPA 350.1	Ammonia as N	mg/L	0.990	1.00	99.0	90 - 110	X510079	07-Mar-25	
OIA 1677	Cyanide (WAD)	mg/L	0.101	0.100	101	90 - 110	X511001	11-Mar-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	702	706	99.5	95.4 - 104	X510197	06-Mar-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.70	9.93	97.7	94 - 106	X510134	05-Mar-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	101	94 - 106	X510134	05-Mar-25	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X509212	04-Mar-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	2.92	3.00	97.3	90 - 110	X509125	27-Feb-25	
EPA 300.0	Fluoride	mg/L	1.99	2.00	99.3	90 - 110	X509125	27-Feb-25	
EPA 300.0	Nitrate as N	mg/L	1.96	2.00	98.0	90 - 110	X509125	27-Feb-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.50	4.50	100	90 - 110	X509125	27-Feb-25	
EPA 300.0	Nitrite as N	mg/L	2.54	2.50	102	90 - 110	X509125	27-Feb-25	
EPA 300.0	Sulfate as SO4	mg/L	9.67	10.0	96.7	90 - 110	X509125	27-Feb-25	


Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5B0330**

Reported: 12-Mar-25 12:24

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO ₃	1600	1600	0.0	20	X510197 - X5B0247-01	06-Mar-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X510134 - X5B0303-02	05-Mar-25	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X510134 - X5B0303-02	05-Mar-25	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X510134 - X5B0303-02	05-Mar-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X510134 - X5B0303-02	05-Mar-25	
SM 2540 C	Total Diss. Solids	mg/L	176	198	11.8	10	X509211 - X5B0358-02	04-Mar-25	R2B
SM 2540 C	Total Diss. Solids	mg/L	555	563	1.4	10	X509211 - X5B0353-02	04-Mar-25	
SM 2540 D	Total Susp. Solids	mg/L	30.0	30.0	0.0	10	X509212 - X5B0353-02	04-Mar-25	
SM 4500 H B	pH @18.4°C	pH Units	2.8	2.8	0.0	20	X510134 - X5B0303-02	05-Mar-25	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	224	208	20.0	79	70 - 130	X510019 - X5B0334-01	05-Mar-25	
EPA 200.7	Calcium	mg/L	58.8	39.9	20.0	94	70 - 130	X510019 - X5B0353-01	05-Mar-25	
EPA 200.7	Magnesium	mg/L	45.5	25.0	20.0	103	70 - 130	X510019 - X5B0334-01	05-Mar-25	
EPA 200.7	Magnesium	mg/L	28.6	9.01	20.0	97.7	70 - 130	X510019 - X5B0353-01	05-Mar-25	
EPA 200.7	Potassium	mg/L	48.4	28.7	20.0	98.7	70 - 130	X510019 - X5B0334-01	05-Mar-25	
EPA 200.7	Potassium	mg/L	27.8	8.11	20.0	98.5	70 - 130	X510019 - X5B0353-01	05-Mar-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	2.23	1.13	1.00	110	70 - 130	X510203 - X5B0330-01	10-Mar-25	
EPA 200.7	Barium	mg/L	1.10	0.0161	1.00	108	70 - 130	X510203 - X5B0330-01	10-Mar-25	
EPA 200.7	Beryllium	mg/L	1.01	<0.00200	1.00	101	70 - 130	X510203 - X5B0330-01	10-Mar-25	
EPA 200.7	Boron	mg/L	1.09	<0.0400	1.00	106	70 - 130	X510203 - X5B0330-01	10-Mar-25	
EPA 200.7	Cadmium	mg/L	0.995	0.0116	1.00	98.3	70 - 130	X510203 - X5B0330-01	10-Mar-25	
EPA 200.7	Calcium	mg/L	430	403	20.0	0.30R>S	70 - 130	X510203 - X5B0330-01	10-Mar-25	M3
EPA 200.7	Chromium	mg/L	1.04	<0.0060	1.00	104	70 - 130	X510203 - X5B0330-01	10-Mar-25	
EPA 200.7	Cobalt	mg/L	1.00	0.0262	1.00	97.4	70 - 130	X510203 - X5B0330-01	10-Mar-25	
EPA 200.7	Copper	mg/L	1.08	0.0198	1.00	106	70 - 130	X510203 - X5B0330-01	10-Mar-25	
EPA 200.7	Iron	mg/L	10.8	<0.100	10.0	108	70 - 130	X510203 - X5B0330-01	10-Mar-25	
EPA 200.7	Lead	mg/L	1.01	<0.0075	1.00	101	70 - 130	X510203 - X5B0330-01	10-Mar-25	
EPA 200.7	Lithium	mg/L	1.27	0.104	1.00	116	70 - 130	X510203 - X5B0330-01	10-Mar-25	
EPA 200.7	Magnesium	mg/L	193	168	20.0	122	70 - 130	X510203 - X5B0330-01	10-Mar-25	
EPA 200.7	Manganese	mg/L	4.78	3.73	1.00	105	70 - 130	X510203 - X5B0330-01	10-Mar-25	
EPA 200.7	Molybdenum	mg/L	1.08	0.0373	1.00	104	70 - 130	X510203 - X5B0330-01	10-Mar-25	
EPA 200.7	Nickel	mg/L	1.03	0.0344	1.00	99.7	70 - 130	X510203 - X5B0330-01	10-Mar-25	
EPA 200.7	Potassium	mg/L	24.0	2.74	20.0	106	70 - 130	X510203 - X5B0330-01	10-Mar-25	
EPA 200.7	Silver	mg/L	0.0527	<0.0050	0.0500	105	70 - 130	X510203 - X5B0330-01	10-Mar-25	
EPA 200.7	Sodium	mg/L	84.2	63.2	19.0	110	70 - 130	X510203 - X5B0330-01	10-Mar-25	
EPA 200.7	Vanadium	mg/L	1.05	<0.0050	1.00	104	70 - 130	X510203 - X5B0330-01	10-Mar-25	
EPA 200.7	Zinc	mg/L	1.59	0.615	1.00	97.9	70 - 130	X510203 - X5B0330-01	10-Mar-25	
EPA 200.8	Antimony	mg/L	0.0232	<0.0100	0.0250	92.7	70 - 130	X509169 - X5B0222-01	04-Mar-25	D17
EPA 200.8	Antimony	mg/L	0.0275	<0.0100	0.0250	110	70 - 130	X509169 - X5B0303-01	04-Mar-25	D17
EPA 200.8	Arsenic	mg/L	0.273	0.270	0.0250	0.30R>S	70 - 130	X509169 - X5B0222-01	04-Mar-25	D17,M4
EPA 200.8	Arsenic	mg/L	0.439	0.408	0.0250	125	70 - 130	X509169 - X5B0303-01	04-Mar-25	D17
EPA 200.8	Selenium	mg/L	0.0574	0.0361	0.0250	85.2	70 - 130	X509169 - X5B0222-01	04-Mar-25	D17
EPA 200.8	Selenium	mg/L	0.0617	0.0410	0.0250	82.8	70 - 130	X509169 - X5B0303-01	04-Mar-25	D17

SVL holds the following certifications:

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

Work order Report Page 6 of 9

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0330**

Reported: 12-Mar-25 12:24

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
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Metals (Dissolved) (Continued)

EPA 200.8	Thallium	mg/L	0.0251	<0.00200	0.0250	100	70 - 130	X509169 - X5B0222-01	04-Mar-25	D17
EPA 200.8	Thallium	mg/L	0.0317	<0.00200	0.0250	127	70 - 130	X509169 - X5B0303-01	04-Mar-25	D17
EPA 200.8	Uranium	mg/L	2.06	2.11	0.0250	0.30R>S	70 - 130	X509169 - X5B0222-01	04-Mar-25	D17,M4
EPA 200.8	Uranium	mg/L	5.83	5.55	0.0250	0.30R>S	70 - 130	X509169 - X5B0303-01	04-Mar-25	M4

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00643	0.00436	0.00200	104	70 - 130	X510029 - X5B0338-05	10-Mar-25	
EPA 245.1	Mercury	mg/L	0.00207	<0.000200	0.00200	104	70 - 130	X510029 - X5B0331-01	10-Mar-25	

Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.114	0.0056	0.100	108	79 - 121	X510021 - X5B0330-01	05-Mar-25	
EPA 335.4	Cyanide (total)	mg/L	0.0980	<0.0050	0.100	98.0	90 - 110	X510007 - X5B0330-01	04-Mar-25	
EPA 335.4	Cyanide (total)	mg/L	0.0716	<0.0050	0.100	71.6	90 - 110	X510007 - X5B0303-01	04-Mar-25	M2
EPA 350.1	Ammonia as N	mg/L	1.02	<0.030	1.00	102	90 - 110	X510079 - X5B0331-01	07-Mar-25	
EPA 350.1	Ammonia as N	mg/L	1.07	<0.030	1.00	107	90 - 110	X510079 - X5B0330-01	07-Mar-25	
OIA 1677	Cyanide (WAD)	mg/L	0.0768	<0.0050	0.100	76.8	82 - 118	X511001 - X5B0330-01	11-Mar-25	M2

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.22	0.27	3.00	98.3	90 - 110	X509125 - X5B0308-01	27-Feb-25	
EPA 300.0	Chloride	mg/L	3.26	0.29	3.00	99.1	90 - 110	X509125 - X5B0308-02	27-Feb-25	
EPA 300.0	Fluoride	mg/L	2.68	0.691	2.00	99.4	90 - 110	X509125 - X5B0308-01	27-Feb-25	
EPA 300.0	Fluoride	mg/L	2.01	0.315	2.00	84.9	90 - 110	X509125 - X5B0308-02	27-Feb-25	M2
EPA 300.0	Nitrate as N	mg/L	1.99	<0.050	2.00	99.4	90 - 110	X509125 - X5B0308-01	27-Feb-25	
EPA 300.0	Nitrate as N	mg/L	2.04	<0.050	2.00	102	90 - 110	X509125 - X5B0308-02	27-Feb-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.06	<0.100	4.00	102	90 - 110	X509125 - X5B0308-01	27-Feb-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.08	<0.100	4.00	102	90 - 110	X509125 - X5B0308-02	27-Feb-25	
EPA 300.0	Nitrite as N	mg/L	2.08	<0.050	2.00	104	90 - 110	X509125 - X5B0308-01	27-Feb-25	
EPA 300.0	Nitrite as N	mg/L	2.04	<0.050	2.00	102	90 - 110	X509125 - X5B0308-02	27-Feb-25	
EPA 300.0	Sulfate as SO4	mg/L	113	105	10.0	0.30R>S	90 - 110	X509125 - X5B0308-01	01-Mar-25	M4
EPA 300.0	Sulfate as SO4	mg/L	651	641	10.0	98.5	90 - 110	X509125 - X5B0308-02	04-Mar-25	

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	mg/L	229	224	20.0	2.0	20	102	X510019 - X5B0334-01	
EPA 200.7	Magnesium	mg/L	46.3	45.5	20.0	1.6	20	106	X510019 - X5B0334-01	
EPA 200.7	Potassium	mg/L	49.3	48.4	20.0	2.0	20	103	X510019 - X5B0334-01	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	2.28	2.23	1.00	1.9	20	114	X510203 - X5B0330-01	
EPA 200.7	Barium	mg/L	1.10	1.10	1.00	0.2	20	108	X510203 - X5B0330-01	
EPA 200.7	Beryllium	mg/L	1.08	1.01	1.00	6.7	20	108	X510203 - X5B0330-01	
EPA 200.7	Boron	mg/L	1.11	1.09	1.00	1.8	20	108	X510203 - X5B0330-01	
EPA 200.7	Cadmium	mg/L	1.07	0.995	1.00	7.4	20	106	X510203 - X5B0330-01	
EPA 200.7	Calcium	mg/L	429	430	20.0	0.1	20	0.30R>S	X510203 - X5B0330-01	M3
EPA 200.7	Chromium	mg/L	1.10	1.04	1.00	6.3	20	110	X510203 - X5B0330-01	
EPA 200.7	Cobalt	mg/L	1.07	1.00	1.00	7.1	20	105	X510203 - X5B0330-01	
EPA 200.7	Copper	mg/L	1.15	1.08	1.00	6.3	20	113	X510203 - X5B0330-01	
EPA 200.7	Iron	mg/L	11.0	10.8	10.0	1.8	20	110	X510203 - X5B0330-01	
EPA 200.7	Lead	mg/L	1.09	1.01	1.00	7.7	20	109	X510203 - X5B0330-01	

SVL holds the following certifications:

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

Work order Report Page 7 of 9



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

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0330**

Reported: 12-Mar-25 12:24

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Lithium	mg/L	1.28	1.27	1.00	1.2	20	118	X510203 - X5B0330-01	
EPA 200.7	Magnesium	mg/L	196	193	20.0	1.4	20	0.30R>S	X510203 - X5B0330-01	M3
EPA 200.7	Manganese	mg/L	4.87	4.78	1.00	1.9	20	114	X510203 - X5B0330-01	
EPA 200.7	Molybdenum	mg/L	1.15	1.08	1.00	6.9	20	112	X510203 - X5B0330-01	
EPA 200.7	Nickel	mg/L	1.10	1.03	1.00	6.9	20	107	X510203 - X5B0330-01	
EPA 200.7	Potassium	mg/L	24.3	24.0	20.0	1.0	20	108	X510203 - X5B0330-01	
EPA 200.7	Silver	mg/L	0.0539	0.0527	0.0500	2.3	20	108	X510203 - X5B0330-01	
EPA 200.7	Sodium	mg/L	84.4	84.2	19.0	0.2	20	111	X510203 - X5B0330-01	
EPA 200.7	Vanadium	mg/L	1.12	1.05	1.00	6.4	20	111	X510203 - X5B0330-01	
EPA 200.7	Zinc	mg/L	1.69	1.59	1.00	6.0	20	108	X510203 - X5B0330-01	
EPA 200.8	Antimony	mg/L	0.0256	0.0232	0.0250	10.0	20	102	X509169 - X5B0222-01	D17
EPA 200.8	Arsenic	mg/L	0.300	0.273	0.0250	9.3	20	117	X509169 - X5B0222-01	D17
EPA 200.8	Selenium	mg/L	0.0566	0.0574	0.0250	1.3	20	82.2	X509169 - X5B0222-01	D17
EPA 200.8	Thallium	mg/L	0.0278	0.0251	0.0250	10.2	20	111	X509169 - X5B0222-01	D17
EPA 200.8	Uranium	mg/L	2.28	2.06	0.0250	10.1	20	0.30R>S	X509169 - X5B0222-01	D17,M4
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00646	0.00643	0.00200	0.5	20	105	X510029 - X5B0338-05	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.121	0.114	0.100	6.4	11	116	X510021 - X5B0330-01	
EPA 335.4	Cyanide (total)	mg/L	0.102	0.0980	0.100	3.5	20	102	X510007 - X5B0330-01	
EPA 350.1	Ammonia as N	mg/L	1.09	1.02	1.00	6.6	20	109	X510079 - X5B0331-01	
OIA 1677	Cyanide (WAD)	mg/L	0.0794	0.0768	0.100	3.3	11	79.4	X511001 - X5B0330-01	M2
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.37	3.22	3.00	4.6	20	103	X509125 - X5B0308-01	
EPA 300.0	Fluoride	mg/L	2.79	2.68	2.00	4.0	20	105	X509125 - X5B0308-01	
EPA 300.0	Nitrate as N	mg/L	2.11	1.99	2.00	5.9	20	105	X509125 - X5B0308-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.22	4.06	4.00	3.9	20	106	X509125 - X5B0308-01	
EPA 300.0	Nitrite as N	mg/L	2.12	2.08	2.00	1.9	20	106	X509125 - X5B0308-01	
EPA 300.0	Sulfate as SO4	mg/L	111	113	10.0	1.5	20	0.30R>S	X509125 - X5B0308-01	M4



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

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0330**

Reported: 12-Mar-25 12:24

Notes and Definitions

D17	Due to an internal standard failure at a lower dilution, a sample dilution was performed.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
R2B	RPD exceeded the laboratory acceptance limit.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable



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

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0303**

Reported: 11-Mar-25 15:37

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-28	X5B0303-01	Ground Water	25-Feb-25 10:04	JC	26-Feb-2025	Q5C
OSABH-17	X5B0303-02	Ground Water	25-Feb-25 11:56	JC	26-Feb-2025	Q5C

Sample preparation is defined by the client as per their Data Quality Objectives.

This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.

Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.

The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of SVL Analytical, Inc.

Case Narrative: X5B0303

The state of origin only accredits for drinking water analyses.

Samples treated with CdCO₃ before CN analysis for sulfide interference at client request.

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0303**

Reported: 11-Mar-25 15:37

Client Sample ID: **GVMW-28**

Sampled: 25-Feb-25 10:04

Received: 26-Feb-25

Sampled By: JC

SVL Sample ID: **X5B0303-01 (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	443	mg/L	1.00	0.690	10	X509159	SJN	03/05/25 12:56	D18,M4
EPA 200.7	Magnesium	497	mg/L	5.00	0.900	10	X509159	SJN	03/05/25 12:56	D18,M4
EPA 200.7	Potassium	< 5.00	mg/L	5.00	1.80	10	X509159	SJN	03/05/25 12:56	D18
SM 2340 B	Hardness (as CaCO3)	3150	mg/L	23.1	5.43		N/A		03/04/25 10:49	
Metals (Dissolved)										
EPA 200.7	Aluminum	1530	mg/L	0.400	0.270	5	X509127	NMS	03/04/25 10:49	D11
EPA 200.7	Barium	0.0106	mg/L	0.0100	0.0095	5	X509127	NMS	03/04/25 10:49	D11
EPA 200.7	Beryllium	0.830	mg/L	0.0100	0.00400	5	X509127	NMS	03/04/25 10:49	D11
EPA 200.7	Boron	< 0.200	mg/L	0.200	0.0390	5	X509127	NMS	03/04/25 10:49	D11
EPA 200.7	Cadmium	2.92	mg/L	0.0100	0.0080	5	X509127	NMS	03/04/25 10:49	D11
EPA 200.7	Calcium	453	mg/L	0.500	0.345	5	X509127	NMS	03/04/25 10:49	D11
EPA 200.7	Chromium	0.273	mg/L	0.0300	0.0100	5	X509127	NMS	03/04/25 10:49	D11
EPA 200.7	Cobalt	2.81	mg/L	0.0300	0.0230	5	X509127	NMS	03/04/25 10:49	D11
EPA 200.7	Copper	7.40	mg/L	0.0500	0.0135	5	X509127	NMS	03/04/25 10:49	D11
EPA 200.7	Iron	134	mg/L	0.500	0.280	5	X509127	NMS	03/04/25 10:49	D11
EPA 200.7	Lead	< 0.0375	mg/L	0.0375	0.0245	5	X509127	NMS	03/05/25 10:43	D11
EPA 200.7	Lithium	0.645	mg/L	0.200	0.125	5	X509127	NMS	03/04/25 10:49	D11
EPA 200.7	Magnesium	500	mg/L	2.50	0.450	5	X509127	NMS	03/04/25 10:49	D11
EPA 200.7	Manganese	413	mg/L	0.0400	0.0170	5	X509127	NMS	03/04/25 10:49	D11
EPA 200.7	Molybdenum	< 0.0400	mg/L	0.0400	0.0170	5	X509127	NMS	03/04/25 10:49	D11
EPA 200.7	Nickel	4.18	mg/L	0.0500	0.0240	5	X509127	NMS	03/04/25 10:49	D11
EPA 200.7	Potassium	< 2.50	mg/L	2.50	0.90	5	X509127	NMS	03/04/25 10:49	D11
EPA 200.7	Silver	< 0.0250	mg/L	0.0250	0.0095	5	X509127	NMS	03/04/25 10:49	D11
EPA 200.7	Sodium	35.9	mg/L	2.50	0.60	5	X509127	NMS	03/04/25 10:49	D11
EPA 200.7	Vanadium	< 0.0250	mg/L	0.0250	0.0095	5	X509127	NMS	03/04/25 10:49	D11
EPA 200.7	Zinc	122	mg/L	0.0500	0.0270	5	X509127	NMS	03/04/25 10:49	D11
EPA 200.8	Antimony	< 0.0100	mg/L	0.0100	0.00720	10	X509169	JRR	03/04/25 10:57	D17
EPA 200.8	Arsenic	0.408	mg/L	0.0100	0.00210	10	X509169	JRR	03/04/25 10:57	D17
EPA 200.8	Selenium	0.0410	mg/L	0.0100	0.00240	10	X509169	SMU	03/04/25 15:21	D17
EPA 200.8	Thallium	< 0.00200	mg/L	0.00200	0.000800	10	X509169	JRR	03/04/25 10:57	D17
EPA 200.8	Uranium	5.55	mg/L	0.00100	0.000520	10	X509169	JRR	03/04/25 10:57	M4
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X510029	SJN	03/10/25 14:32	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X510020	DD	03/05/25 12:11	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X510007	JPM	03/04/25 14:24	M2
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X509135	DD	02/28/25 10:58	
OIA 1677	Cyanide (WAD)	< 0.0500	mg/L	0.0500	0.0100	10	X511001	JPM	03/11/25 12:20	D13,Q12
SM 2310 B	Acidity to pH 8.3	9790	mg/L as CaCO3	10.0			X510197	MWD	03/06/25 14:32	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X510134	MWD	03/05/25 15:09	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X510134	MWD	03/05/25 15:09	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X510134	MWD	03/05/25 15:09	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X510134	MWD	03/05/25 15:09	
SM 2540 C	Total Diss. Solids	16900	mg/L	100			X509138	TJL	02/28/25 12:25	
SM 2540 D	Total Susp. Solids	39.0	mg/L	5.0			X509139	TJL	02/28/25 13:10	
SM 4500 H B	pH @18.6°C	2.9	pH Units				X510134	MWD	03/05/25 15:09	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

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0303**

Reported: 11-Mar-25 15:37

Client Sample ID: **GVMW-28**SVL Sample ID: **X5B0303-01 (Ground Water)**

Sampled: 25-Feb-25 10:04

Received: 26-Feb-25

Sampled By: JC

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	5.03	mg/L	2.00	0.22	10	X509111	RS	02/26/25 12:05	D18
EPA 300.0	Fluoride	173	mg/L	25.0	4.25	250	X509111	RS	02/27/25 16:04	
EPA 300.0	Nitrate as N	5.66	mg/L	0.500	0.130	10	X509111	RS	02/26/25 12:05	D18
EPA 300.0	Nitrate+Nitrite as N	5.72	mg/L	1.00	0.440	10	X509111	RS	02/26/25 12:05	D18
EPA 300.0	Nitrite as N	< 0.500	mg/L	0.500	0.310	10	X509111	RS	02/26/25 12:05	D18
EPA 300.0	Sulfate as SO4	13600	mg/L	150	90.0	500	X509111	RS	02/27/25 16:20	

Cation/Anion Balance and TDS Ratios

Cation Sum: 260 meq/L

Anion Sum: 293 meq/L

C/A Balance: -5.86 %

Calculated TDS: 14786

TDS/cTDS: 1.14

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

Kristi A. Groth

Kristi A. Groth

Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0303**

Reported: 11-Mar-25 15:37

Client Sample ID: **OSABH-17**

Sampled: 25-Feb-25 11:56

Received: 26-Feb-25

Sampled By: JC

SVL Sample ID: **X5B0303-02 (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	421	mg/L	1.00	0.690	10	X509159	SJN	03/05/25 13:00	D18
EPA 200.7	Magnesium	1790	mg/L	5.00	0.900	10	X509159	SJN	03/05/25 13:00	D18
EPA 200.7	Potassium	< 5.00	mg/L	5.00	1.80	10	X509159	SJN	03/05/25 13:00	D18
SM 2340 B	Hardness (as CaCO3)	8420	mg/L	23.1	5.43		N/A		03/04/25 10:13	
Metals (Dissolved)										
EPA 200.7	Aluminum	4890	mg/L	0.800	0.540	10	X509127	NMS	03/04/25 10:13	D11
EPA 200.7	Barium	< 0.0200	mg/L	0.0200	0.0190	10	X509127	NMS	03/04/25 10:13	D11
EPA 200.7	Beryllium	0.790	mg/L	0.0200	0.00800	10	X509127	NMS	03/04/25 10:13	D11
EPA 200.7	Boron	< 0.400	mg/L	0.400	0.0780	10	X509127	NMS	03/04/25 10:13	D11
EPA 200.7	Cadmium	10.4	mg/L	0.0200	0.0160	10	X509127	NMS	03/04/25 10:13	D11
EPA 200.7	Calcium	430	mg/L	1.00	0.690	10	X509127	NMS	03/04/25 10:13	D11
EPA 200.7	Chromium	1.21	mg/L	0.0600	0.0200	10	X509127	NMS	03/04/25 10:13	D11
EPA 200.7	Cobalt	22.5	mg/L	0.0600	0.0460	10	X509127	NMS	03/04/25 10:13	D11
EPA 200.7	Copper	21.6	mg/L	0.100	0.0270	10	X509127	NMS	03/04/25 10:13	D11
EPA 200.7	Iron	353	mg/L	1.00	0.560	10	X509127	NMS	03/04/25 10:13	D11
EPA 200.7	Lead	< 0.0750	mg/L	0.0750	0.0490	10	X509127	NMS	03/05/25 10:47	D11
EPA 200.7	Lithium	2.54	mg/L	0.400	0.250	10	X509127	NMS	03/04/25 10:13	D11
EPA 200.7	Magnesium	1740	mg/L	5.00	0.900	10	X509127	NMS	03/04/25 10:13	D11
EPA 200.7	Manganese	1660	mg/L	0.800	0.340	100	X509127	NMS	03/04/25 10:52	D11
EPA 200.7	Molybdenum	< 0.0800	mg/L	0.0800	0.0340	10	X509127	NMS	03/04/25 10:13	D11
EPA 200.7	Nickel	17.1	mg/L	0.100	0.0480	10	X509127	NMS	03/04/25 10:13	D11
EPA 200.7	Potassium	< 5.00	mg/L	5.00	1.80	10	X509127	NMS	03/04/25 10:13	D11
EPA 200.7	Silver	< 0.0500	mg/L	0.0500	0.0190	10	X509127	NMS	03/04/25 10:13	D11
EPA 200.7	Sodium	10.6	mg/L	5.00	1.20	10	X509127	NMS	03/04/25 10:13	D11
EPA 200.7	Vanadium	< 0.0500	mg/L	0.0500	0.0190	10	X509127	NMS	03/04/25 10:13	D11
EPA 200.7	Zinc	381	mg/L	0.100	0.0540	10	X509127	NMS	03/04/25 10:13	D11
EPA 200.8	Antimony	< 0.0500	mg/L	0.0500	0.0360	50	X509169	JRR	03/04/25 10:04	D17
EPA 200.8	Arsenic	0.797	mg/L	0.0500	0.0105	50	X509169	JRR	03/04/25 10:04	D17
EPA 200.8	Selenium	< 0.0500	mg/L	0.0500	0.0120	50	X509169	SMU	03/04/25 15:12	D17
EPA 200.8	Thallium	< 0.0100	mg/L	0.0100	0.00400	50	X509169	JRR	03/04/25 10:04	D17
EPA 200.8	Uranium	18.9	mg/L	0.0500	0.0260	500	X509169	JRR	03/04/25 11:03	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X510029	SJN	03/10/25 14:34	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0500	mg/L	0.0500	0.0480	10	X510020	DD	03/05/25 12:12	D13,Q12
EPA 335.4	Cyanide (total)	0.0525	mg/L	0.0050	0.0038		X510007	JPM	03/04/25 14:26	
EPA 350.1	Ammonia as N	< 0.150	mg/L	0.150	0.064	5	X509135	DD	02/28/25 11:09	D11
OIA 1677	Cyanide (WAD)	< 0.0500	mg/L	0.0500	0.0100	10	X511001	JPM	03/11/25 13:46	D13,Q12
SM 2310 B	Acidity to pH 8.3	30000	mg/L as CaCO3	10.0			X510197	MWD	03/06/25 14:32	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X510134	MWD	03/05/25 15:15	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X510134	MWD	03/05/25 15:15	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X510134	MWD	03/05/25 15:15	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X510134	MWD	03/05/25 15:15	
SM 2540 C	Total Diss. Solids	53300	mg/L	100			X509138	TJL	02/28/25 12:25	E11
SM 2540 D	Total Susp. Solids	202	mg/L	5.0			X509139	TJL	02/28/25 13:10	
SM 4500 H B	pH @18.6°C	2.8	pH Units				X510134	MWD	03/05/25 15:15	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

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0303**

Reported: 11-Mar-25 15:37

Client Sample ID: **OSABH-17**SVL Sample ID: **X5B0303-02 (Ground Water)**

Sampled: 25-Feb-25 11:56

Received: 26-Feb-25

Sampled By: JC

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	16.4	mg/L	10.0	1.10	50	X509111	RS	02/26/25 12:37	
EPA 300.0	Fluoride	156	mg/L	100	17.0	1000	X509111	RS	02/27/25 16:36	
EPA 300.0	Nitrate as N	4.21	mg/L	2.50	0.650	50	X509111	RS	02/26/25 12:37	D18
EPA 300.0	Nitrate+Nitrite as N	< 5.00	mg/L	5.00	2.20	50	X509111	RS	02/26/25 12:37	D18
EPA 300.0	Nitrite as N	< 2.50	mg/L	2.50	1.55	50	X509111	RS	02/26/25 12:37	D18
EPA 300.0	Sulfate as SO4	38900	mg/L	300	180	1000	X509111	RS	02/26/25 12:53	

Cation/Anion Balance and TDS Ratios

Cation Sum: 794 meq/L

Anion Sum: 819 meq/L

C/A Balance: -1.51 %

Calculated TDS: 41274

TDS/cTDS: 1.29

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

Kristi A. Groth

Kristi A. Groth

Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0303**

Reported: 11-Mar-25 15:37

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X509159	05-Mar-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X509159	05-Mar-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X509159	05-Mar-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X509127	04-Mar-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X509127	04-Mar-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X509127	04-Mar-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X509127	04-Mar-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X509127	04-Mar-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X509127	04-Mar-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X509127	04-Mar-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X509127	04-Mar-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X509127	04-Mar-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X509127	04-Mar-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X509127	05-Mar-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X509127	04-Mar-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X509127	04-Mar-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X509127	04-Mar-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X509127	04-Mar-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X509127	04-Mar-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X509127	04-Mar-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X509127	04-Mar-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X509127	04-Mar-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X509127	04-Mar-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X509127	04-Mar-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X509169	04-Mar-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X509169	04-Mar-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X509169	04-Mar-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X509169	04-Mar-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X509169	04-Mar-25	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X510029	10-Mar-25	
Classical Chemistry Parameters								
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X510020	05-Mar-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X510007	04-Mar-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X509135	28-Feb-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X511001	11-Mar-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X510197	06-Mar-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X510134	05-Mar-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X510134	05-Mar-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X510134	05-Mar-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X510134	05-Mar-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X509138	28-Feb-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X509139	28-Feb-25	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X509111	26-Feb-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X509111	27-Feb-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X509111	26-Feb-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X509111	26-Feb-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X509111	26-Feb-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X509111	26-Feb-25	



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Kellogg, ID 83837-0929

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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5B0303**

Reported: 11-Mar-25 15:37

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	mg/L	18.9	20.0	95	85 - 115	X509159	05-Mar-25	
EPA 200.7	Magnesium	mg/L	19.1	20.0	95.5	85 - 115	X509159	05-Mar-25	
EPA 200.7	Potassium	mg/L	19.1	20.0	95.6	85 - 115	X509159	05-Mar-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.960	1.00	96.0	85 - 115	X509127	04-Mar-25	
EPA 200.7	Barium	mg/L	0.999	1.00	99.9	85 - 115	X509127	04-Mar-25	
EPA 200.7	Beryllium	mg/L	0.973	1.00	97.3	85 - 115	X509127	04-Mar-25	
EPA 200.7	Boron	mg/L	0.992	1.00	99.2	85 - 115	X509127	04-Mar-25	
EPA 200.7	Cadmium	mg/L	0.974	1.00	97.4	85 - 115	X509127	04-Mar-25	
EPA 200.7	Calcium	mg/L	19.3	20.0	96.4	85 - 115	X509127	04-Mar-25	
EPA 200.7	Chromium	mg/L	0.991	1.00	99.1	85 - 115	X509127	04-Mar-25	
EPA 200.7	Cobalt	mg/L	0.953	1.00	95.3	85 - 115	X509127	04-Mar-25	
EPA 200.7	Copper	mg/L	0.969	1.00	96.9	85 - 115	X509127	04-Mar-25	
EPA 200.7	Iron	mg/L	9.97	10.0	99.7	85 - 115	X509127	04-Mar-25	
EPA 200.7	Lead	mg/L	0.974	1.00	97.4	85 - 115	X509127	04-Mar-25	
EPA 200.7	Lithium	mg/L	0.962	1.00	96.2	85 - 115	X509127	04-Mar-25	
EPA 200.7	Magnesium	mg/L	18.9	20.0	94.4	85 - 115	X509127	04-Mar-25	
EPA 200.7	Manganese	mg/L	0.982	1.00	98.2	85 - 115	X509127	04-Mar-25	
EPA 200.7	Molybdenum	mg/L	0.990	1.00	99.0	85 - 115	X509127	04-Mar-25	
EPA 200.7	Nickel	mg/L	0.955	1.00	95.5	85 - 115	X509127	04-Mar-25	
EPA 200.7	Potassium	mg/L	19.7	20.0	98.5	85 - 115	X509127	04-Mar-25	
EPA 200.7	Silver	mg/L	0.0496	0.0500	99.3	85 - 115	X509127	04-Mar-25	
EPA 200.7	Sodium	mg/L	18.6	19.0	98.0	85 - 115	X509127	04-Mar-25	
EPA 200.7	Vanadium	mg/L	0.998	1.00	99.8	85 - 115	X509127	04-Mar-25	
EPA 200.7	Zinc	mg/L	0.970	1.00	97.0	85 - 115	X509127	04-Mar-25	
EPA 200.8	Antimony	mg/L	0.0243	0.0250	97.1	85 - 115	X509169	04-Mar-25	
EPA 200.8	Arsenic	mg/L	0.0232	0.0250	92.7	85 - 115	X509169	04-Mar-25	
EPA 200.8	Selenium	mg/L	0.0217	0.0250	86.7	85 - 115	X509169	04-Mar-25	
EPA 200.8	Thallium	mg/L	0.0251	0.0250	101	85 - 115	X509169	04-Mar-25	
EPA 200.8	Uranium	mg/L	0.0272	0.0250	109	85 - 115	X509169	04-Mar-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00206	0.00200	103	85 - 115	X510029	10-Mar-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.106	0.100	106	90 - 110	X510020	05-Mar-25	
EPA 335.4	Cyanide (total)	mg/L	0.0961	0.100	96.1	90 - 110	X510007	04-Mar-25	
EPA 350.1	Ammonia as N	mg/L	0.989	1.00	98.9	90 - 110	X509135	28-Feb-25	
OIA 1677	Cyanide (WAD)	mg/L	0.101	0.100	101	90 - 110	X511001	11-Mar-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	702	706	99.5	95.4 - 104	X510197	06-Mar-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.70	9.93	97.7	94 - 106	X510134	05-Mar-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	101	94 - 106	X510134	05-Mar-25	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X509139	28-Feb-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	2.90	3.00	96.8	90 - 110	X509111	26-Feb-25	
EPA 300.0	Fluoride	mg/L	2.00	2.00	99.9	90 - 110	X509111	27-Feb-25	
EPA 300.0	Nitrate as N	mg/L	1.95	2.00	97.7	90 - 110	X509111	26-Feb-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.51	4.50	100	90 - 110	X509111	26-Feb-25	
EPA 300.0	Nitrite as N	mg/L	2.55	2.50	102	90 - 110	X509111	26-Feb-25	
EPA 300.0	Sulfate as SO4	mg/L	9.90	10.0	99.0	90 - 110	X509111	26-Feb-25	

SVL holds the following certifications:

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

Work order Report Page 7 of 11

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0303**

Reported: 11-Mar-25 15:37

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO ₃	1600	1600	0.0	20	X510197 - X5B0247-01	06-Mar-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X510134 - X5B0303-02	05-Mar-25	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X510134 - X5B0303-02	05-Mar-25	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X510134 - X5B0303-02	05-Mar-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X510134 - X5B0303-02	05-Mar-25	
SM 2540 C	Total Diss. Solids	mg/L	575	608	5.6	10	X509138 - X5B0306-02	28-Feb-25	
SM 2540 C	Total Diss. Solids	mg/L	693	701	1.2	10	X509138 - X5B0307-03	28-Feb-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X509139 - X5B0300-01	28-Feb-25	
SM 2540 D	Total Susp. Solids	mg/L	6.0	6.0	0.0	10	X509139 - X5B0288-01	28-Feb-25	
SM 4500 H B	pH @18.4°C	pH Units	2.8	2.8	0.0	20	X510134 - X5B0303-02	05-Mar-25	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	453	443	20.0	0.30R>S	70 - 130	X509159 - X5B0303-01	05-Mar-25	D18,M4
EPA 200.7	Calcium	mg/L	35.0	16.2	20.0	94	70 - 130	X509159 - X5B0310-03	05-Mar-25	
EPA 200.7	Magnesium	mg/L	508	497	20.0	0.30R>S	70 - 130	X509159 - X5B0303-01	05-Mar-25	D18,M4
EPA 200.7	Magnesium	mg/L	21.3	1.96	20.0	96.7	70 - 130	X509159 - X5B0310-03	05-Mar-25	
EPA 200.7	Potassium	mg/L	20.3	<5.00	20.0	101	70 - 130	X509159 - X5B0303-01	05-Mar-25	D18
EPA 200.7	Potassium	mg/L	19.4	<0.50	20.0	95.5	70 - 130	X509159 - X5B0310-03	05-Mar-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.955	<0.080	1.00	95.5	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Aluminum	mg/L	1.01	<0.080	1.00	101	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Barium	mg/L	1.03	0.0319	1.00	99.3	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Barium	mg/L	1.12	0.0770	1.00	104	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Beryllium	mg/L	0.972	<0.00200	1.00	97.2	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Beryllium	mg/L	1.02	<0.00200	1.00	102	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Boron	mg/L	1.01	<0.0400	1.00	101	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Boron	mg/L	1.07	<0.0400	1.00	105	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Cadmium	mg/L	0.989	<0.0020	1.00	98.9	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Cadmium	mg/L	1.02	<0.0020	1.00	102	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Calcium	mg/L	53.0	34.4	20.0	93.3	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Calcium	mg/L	72.2	52.1	20.0	100	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Chromium	mg/L	1.00	<0.0060	1.00	100	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Chromium	mg/L	1.04	<0.0060	1.00	104	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Cobalt	mg/L	0.957	<0.0060	1.00	95.7	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Cobalt	mg/L	0.993	<0.0060	1.00	99.3	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Copper	mg/L	0.959	<0.0100	1.00	95.9	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Copper	mg/L	1.00	<0.0100	1.00	100	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Iron	mg/L	9.88	<0.100	10.0	98.8	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Iron	mg/L	10.5	<0.100	10.0	105	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Lead	mg/L	0.993	<0.0075	1.00	99.3	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Lead	mg/L	1.02	<0.0075	1.00	102	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Lithium	mg/L	0.990	<0.040	1.00	99.0	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Lithium	mg/L	1.06	<0.040	1.00	106	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Magnesium	mg/L	31.4	11.8	20.0	97.8	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Magnesium	mg/L	29.2	8.56	20.0	103	70 - 130	X509127 - X5B0200-03	04-Mar-25	

SVL holds the following certifications:

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

Work order Report Page 8 of 11

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0303**

Reported: 11-Mar-25 15:37

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Manganese	mg/L	0.994	<0.0080	1.00	98.7	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Manganese	mg/L	1.04	0.0147	1.00	103	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Molybdenum	mg/L	1.00	<0.0080	1.00	100	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Molybdenum	mg/L	1.05	0.0100	1.00	104	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Nickel	mg/L	0.959	<0.0100	1.00	95.9	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Nickel	mg/L	0.998	<0.0100	1.00	99.2	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Potassium	mg/L	20.3	0.75	20.0	97.7	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Potassium	mg/L	21.9	1.16	20.0	104	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Silver	mg/L	0.0494	<0.0050	0.0500	98.8	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Silver	mg/L	0.0522	<0.0050	0.0500	104	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Sodium	mg/L	29.3	11.2	19.0	95.4	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Sodium	mg/L	49.2	29.9	19.0	101	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Vanadium	mg/L	1.01	<0.0050	1.00	101	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Vanadium	mg/L	1.05	<0.0050	1.00	105	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.7	Zinc	mg/L	0.996	<0.0100	1.00	99.6	70 - 130	X509127 - X5B0200-01	04-Mar-25	
EPA 200.7	Zinc	mg/L	1.03	<0.0100	1.00	103	70 - 130	X509127 - X5B0200-03	04-Mar-25	
EPA 200.8	Antimony	mg/L	0.0232	<0.0100	0.0250	92.7	70 - 130	X509169 - X5B0222-01	04-Mar-25	D17
EPA 200.8	Antimony	mg/L	0.0275	<0.0100	0.0250	110	70 - 130	X509169 - X5B0303-01	04-Mar-25	D17
EPA 200.8	Arsenic	mg/L	0.273	0.270	0.0250	0.30R>S	70 - 130	X509169 - X5B0222-01	04-Mar-25	D17,M4
EPA 200.8	Arsenic	mg/L	0.439	0.408	0.0250	125	70 - 130	X509169 - X5B0303-01	04-Mar-25	D17
EPA 200.8	Selenium	mg/L	0.0574	0.0361	0.0250	85.2	70 - 130	X509169 - X5B0222-01	04-Mar-25	D17
EPA 200.8	Selenium	mg/L	0.0617	0.0410	0.0250	82.8	70 - 130	X509169 - X5B0303-01	04-Mar-25	D17
EPA 200.8	Thallium	mg/L	0.0251	<0.00200	0.0250	100	70 - 130	X509169 - X5B0222-01	04-Mar-25	D17
EPA 200.8	Thallium	mg/L	0.0317	<0.00200	0.0250	127	70 - 130	X509169 - X5B0303-01	04-Mar-25	D17
EPA 200.8	Uranium	mg/L	2.06	2.11	0.0250	0.30R>S	70 - 130	X509169 - X5B0222-01	04-Mar-25	D17,M4
EPA 200.8	Uranium	mg/L	5.83	5.55	0.0250	0.30R>S	70 - 130	X509169 - X5B0303-01	04-Mar-25	M4
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00643	0.00436	0.00200	104	70 - 130	X510029 - X5B0338-05	10-Mar-25	
EPA 245.1	Mercury	mg/L	0.00207	<0.000200	0.00200	104	70 - 130	X510029 - X5B0331-01	10-Mar-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.114	<0.0050	0.100	114	79 - 121	X510020 - X5B0337-04	05-Mar-25	
EPA 335.4	Cyanide (total)	mg/L	0.0980	<0.0050	0.100	98.0	90 - 110	X510007 - X5B0330-01	04-Mar-25	
EPA 335.4	Cyanide (total)	mg/L	0.0716	<0.0050	0.100	71.6	90 - 110	X510007 - X5B0303-01	04-Mar-25	M2
EPA 350.1	Ammonia as N	mg/L	4.40	3.81	1.00	0.30R>S	90 - 110	X509135 - X5B0296-01	28-Feb-25	M4
OIA 1677	Cyanide (WAD)	mg/L	0.0768	<0.0050	0.100	76.8	82 - 118	X511001 - X5B0330-01	11-Mar-25	M2
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	24.5	22.6	3.00	0.30R>S	90 - 110	X509111 - X5B0306-02	26-Feb-25	M4
EPA 300.0	Chloride	mg/L	16.4	13.7	3.00	91.7	90 - 110	X509111 - X5B0311-01	26-Feb-25	
EPA 300.0	Fluoride	mg/L	2.04	0.359	2.00	84.3	90 - 110	X509111 - X5B0306-02	26-Feb-25	M2
EPA 300.0	Fluoride	mg/L	3.40	1.49	2.00	95.8	90 - 110	X509111 - X5B0311-01	26-Feb-25	
EPA 300.0	Nitrate as N	mg/L	1.92	<0.050	2.00	95.8	90 - 110	X509111 - X5B0306-02	26-Feb-25	
EPA 300.0	Nitrate as N	mg/L	1.92	<0.050	2.00	95.8	90 - 110	X509111 - X5B0311-01	26-Feb-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.88	<0.100	4.00	97.1	90 - 110	X509111 - X5B0306-02	26-Feb-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.88	<0.100	4.00	97.0	90 - 110	X509111 - X5B0311-01	26-Feb-25	
EPA 300.0	Nitrite as N	mg/L	1.97	<0.050	2.00	98.4	90 - 110	X509111 - X5B0306-02	26-Feb-25	
EPA 300.0	Nitrite as N	mg/L	1.97	<0.050	2.00	98.3	90 - 110	X509111 - X5B0311-01	26-Feb-25	
EPA 300.0	Sulfate as SO4	mg/L	177	172	10.0	0.30R>S	90 - 110	X509111 - X5B0306-02	26-Feb-25	M4
EPA 300.0	Sulfate as SO4	mg/L	33.1	23.7	10.0	94.1	90 - 110	X509111 - X5B0311-01	26-Feb-25	

SVL holds the following certifications:

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

Work order Report Page 9 of 11



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

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5B0303**

Reported: 11-Mar-25 15:37

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	mg/L	458	453	20.0	1.0	20	75	X509159 - X5B0303-01	D18
EPA 200.7	Magnesium	mg/L	515	508	20.0	1.4	20	88.9	X509159 - X5B0303-01	D18
EPA 200.7	Potassium	mg/L	20.0	20.3	20.0	1.4	20	100	X509159 - X5B0303-01	D18

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.963	0.955	1.00	0.8	20	96.3	X509127 - X5B0200-01	
EPA 200.7	Barium	mg/L	1.03	1.03	1.00	0.7	20	100	X509127 - X5B0200-01	
EPA 200.7	Beryllium	mg/L	0.960	0.972	1.00	1.2	20	96.0	X509127 - X5B0200-01	
EPA 200.7	Boron	mg/L	1.01	1.01	1.00	0.2	20	101	X509127 - X5B0200-01	
EPA 200.7	Cadmium	mg/L	0.970	0.989	1.00	2.0	20	97.0	X509127 - X5B0200-01	
EPA 200.7	Calcium	mg/L	53.4	53.0	20.0	0.6	20	94.9	X509127 - X5B0200-01	
EPA 200.7	Chromium	mg/L	0.996	1.00	1.00	0.4	20	99.6	X509127 - X5B0200-01	
EPA 200.7	Cobalt	mg/L	0.936	0.957	1.00	2.2	20	93.6	X509127 - X5B0200-01	
EPA 200.7	Copper	mg/L	0.955	0.959	1.00	0.4	20	95.5	X509127 - X5B0200-01	
EPA 200.7	Iron	mg/L	10.0	9.88	10.0	1.2	20	100	X509127 - X5B0200-01	
EPA 200.7	Lead	mg/L	0.971	0.993	1.00	2.2	20	97.1	X509127 - X5B0200-01	
EPA 200.7	Lithium	mg/L	0.988	0.990	1.00	0.2	20	98.8	X509127 - X5B0200-01	
EPA 200.7	Magnesium	mg/L	31.3	31.4	20.0	0.2	20	97.5	X509127 - X5B0200-01	
EPA 200.7	Manganese	mg/L	0.985	0.994	1.00	0.9	20	97.8	X509127 - X5B0200-01	
EPA 200.7	Molybdenum	mg/L	0.985	1.00	1.00	1.7	20	98.5	X509127 - X5B0200-01	
EPA 200.7	Nickel	mg/L	0.941	0.959	1.00	1.9	20	94.1	X509127 - X5B0200-01	
EPA 200.7	Potassium	mg/L	20.5	20.3	20.0	0.8	20	98.6	X509127 - X5B0200-01	
EPA 200.7	Silver	mg/L	0.0501	0.0494	0.0500	1.5	20	100	X509127 - X5B0200-01	
EPA 200.7	Sodium	mg/L	29.5	29.3	19.0	0.5	20	96.1	X509127 - X5B0200-01	
EPA 200.7	Vanadium	mg/L	1.00	1.01	1.00	0.9	20	100	X509127 - X5B0200-01	
EPA 200.7	Zinc	mg/L	0.981	0.996	1.00	1.6	20	98.1	X509127 - X5B0200-01	
EPA 200.8	Antimony	mg/L	0.0256	0.0232	0.0250	10.0	20	102	X509169 - X5B0222-01	D17
EPA 200.8	Arsenic	mg/L	0.300	0.273	0.0250	9.3	20	117	X509169 - X5B0222-01	D17
EPA 200.8	Selenium	mg/L	0.0566	0.0574	0.0250	1.3	20	82.2	X509169 - X5B0222-01	D17
EPA 200.8	Thallium	mg/L	0.0278	0.0251	0.0250	10.2	20	111	X509169 - X5B0222-01	D17
EPA 200.8	Uranium	mg/L	2.28	2.06	0.0250	10.1	20	0.30R>S	X509169 - X5B0222-01	D17,M4

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00646	0.00643	0.00200	0.5	20	105	X510029 - X5B0338-05	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.114	0.114	0.100	0.4	11	114	X510020 - X5B0337-04	
EPA 335.4	Cyanide (total)	mg/L	0.102	0.0980	0.100	3.5	20	102	X510007 - X5B0330-01	
EPA 350.1	Ammonia as N	mg/L	4.44	4.40	1.00	0.7	20	0.30R>S	X509135 - X5B0296-01	M4
OIA 1677	Cyanide (WAD)	mg/L	0.0794	0.0768	0.100	3.3	11	79.4	X511001 - X5B0330-01	M2

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	24.4	24.5	3.00	0.6	20	0.30R>S	X509111 - X5B0306-02	M4
EPA 300.0	Fluoride	mg/L	2.07	2.04	2.00	1.3	20	85.6	X509111 - X5B0306-02	M2
EPA 300.0	Nitrate as N	mg/L	1.90	1.92	2.00	0.8	20	95.1	X509111 - X5B0306-02	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.85	3.88	4.00	0.8	20	96.3	X509111 - X5B0306-02	
EPA 300.0	Nitrite as N	mg/L	1.95	1.97	2.00	0.8	20	97.6	X509111 - X5B0306-02	
EPA 300.0	Sulfate as SO4	mg/L	177	177	10.0	0.1	20	0.30R>S	X509111 - X5B0306-02	M4



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

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0303**

Reported: 11-Mar-25 15:37

Notes and Definitions

D11	Due to sample color, a sample dilution was performed to minimize spectral interference.
D13	Due to noticeable turbidity or opacity, a sample dilution was performed.
D17	Due to an internal standard failure at a lower dilution, a sample dilution was performed.
D18	Due to a published chemical interference, a sample dilution was performed.
E11	Sample exceeds method-specified limit for solids content.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
Q12	Sample was received and analyzed with pH <12.
Q5C	After two pH adjustments, the method-specified pH was not achieved.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable



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

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0331**

Reported: 12-Mar-25 12:32

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
RB-0226	X5B0331-01	Ground Water	26-Feb-25 14:35	TR	27-Feb-2025	

Sample preparation is defined by the client as per their Data Quality Objectives.

This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.

Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.

The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of SVL Analytical, Inc.

Case Narrative: X5B0331

The state of origin only accredits for drinking water analyses.

Samples treated with CdCO₃ before CN analysis for sulfide interference at client request.



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

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5B0331**

Reported: 12-Mar-25 12:32

Client Sample ID: **RB-0226**

Sampled: 26-Feb-25 14:35

Received: 27-Feb-25

Sampled By: TR

SVL Sample ID: **X5B0331-01 (Ground Water)**

Sample Report Page 1 of 2

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

EPA 200.7	Calcium	< 0.100	mg/L	0.100	0.069		X510019	NMS	03/05/25 08:38	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X510019	NMS	03/05/25 08:38	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X510019	NMS	03/05/25 08:38	
SM 2340 B	Hardness (as CaCO3)	< 2.31	mg/L	2.31	0.543		N/A		03/10/25 09:04	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X510203	NMS	03/10/25 09:04	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X510203	NMS	03/10/25 09:04	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X510203	NMS	03/10/25 09:04	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X510203	NMS	03/10/25 09:04	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X510203	NMS	03/10/25 09:04	
EPA 200.7	Calcium	< 0.100	mg/L	0.100	0.069		X510203	NMS	03/10/25 09:04	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X510203	NMS	03/10/25 09:04	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X510203	NMS	03/10/25 09:04	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X510203	NMS	03/10/25 09:04	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X510203	NMS	03/10/25 09:04	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X510203	NMS	03/10/25 09:04	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X510203	NMS	03/10/25 09:04	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X510203	NMS	03/10/25 09:04	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X510203	NMS	03/10/25 09:04	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X510203	NMS	03/10/25 09:04	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X510203	NMS	03/10/25 09:04	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X510203	NMS	03/10/25 09:04	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X510203	NMS	03/10/25 09:04	
EPA 200.7	Sodium	0.60	mg/L	0.50	0.12		X510203	NMS	03/10/25 09:04	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X510203	NMS	03/10/25 09:04	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X510203	NMS	03/10/25 09:04	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X509169	JRR	03/04/25 10:37	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X509169	JRR	03/04/25 10:37	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X509169	SMU	03/04/25 15:18	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X509169	JRR	03/04/25 10:37	
EPA 200.8	Uranium	0.000206	mg/L	0.000100	0.000052		X509169	JRR	03/04/25 10:37	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X510029	SJN	03/10/25 14:59	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X510021	DD	03/05/25 12:39	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X510007	JPM	03/04/25 14:31	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X510079	JPM	03/07/25 14:41	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X511001	JPM	03/11/25 12:35	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X510197	MWD	03/06/25 14:32	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X510134	MWD	03/05/25 15:41	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X510134	MWD	03/05/25 15:41	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X510134	MWD	03/05/25 15:41	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X510134	MWD	03/05/25 15:41	
SM 2540 C	Total Diss. Solids	38	mg/L	10			X509211	TJL	03/04/25 12:20	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X509212	TJL	03/04/25 14:00	
SM 4500 H B	pH @17.9°C	4.9	pH Units				X510134	MWD	03/05/25 15:41	H5

SVL holds the following certifications:

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

Work order Report Page 2 of 9



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	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5B0331 Reported: 12-Mar-25 12:32
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Client Sample ID: **RB-0226**
SVL Sample ID: **X5B0331-01 (Ground Water)**

Sampled: 26-Feb-25 14:35
Received: 27-Feb-25
Sampled By: TR

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		X509125	RS	02/28/25 00:48	
EPA 300.0	Fluoride	0.275	mg/L	0.100	0.017		X509125	RS	02/28/25 00:48	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X509125	RS	02/28/25 00:48	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X509125	RS	02/28/25 00:48	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X509125	RS	02/28/25 00:48	
EPA 300.0	Sulfate as SO4	9.17	mg/L	0.30	0.18		X509125	RS	02/28/25 00:48	

Cation/Anion Balance and TDS Ratios

Cation Sum: 0.05 meq/L	Anion Sum: 0.23 meq/L	C/A Balance: -61.52 %	Calculated TDS: 10	TDS/cTDS: 3.78
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This data has been reviewed for accuracy and has been authorized for release.

Kristi A. Groth

Kristi A. Groth
Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0331**

Reported: 12-Mar-25 12:32

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X510019	05-Mar-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X510019	05-Mar-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X510019	05-Mar-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X510203	10-Mar-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X510203	10-Mar-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X510203	10-Mar-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X510203	10-Mar-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X510203	10-Mar-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X510203	10-Mar-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X510203	10-Mar-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X510203	10-Mar-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X510203	10-Mar-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X510203	10-Mar-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X510203	10-Mar-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X510203	10-Mar-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X510203	10-Mar-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X510203	10-Mar-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X510203	10-Mar-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X510203	10-Mar-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X510203	10-Mar-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X510203	10-Mar-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X510203	10-Mar-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X510203	10-Mar-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X510203	10-Mar-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X509169	04-Mar-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X509169	04-Mar-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X509169	04-Mar-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X509169	04-Mar-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X509169	04-Mar-25	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X510029	10-Mar-25	
Classical Chemistry Parameters								
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X510021	05-Mar-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X510007	04-Mar-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X510079	07-Mar-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X511001	11-Mar-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X510197	06-Mar-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X510134	05-Mar-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X510134	05-Mar-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X510134	05-Mar-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X510134	05-Mar-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X509211	04-Mar-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X509212	04-Mar-25	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X509125	27-Feb-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X509125	27-Feb-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X509125	27-Feb-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X509125	27-Feb-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X509125	27-Feb-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X509125	27-Feb-25	



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

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5B0331**

Reported: 12-Mar-25 12:32

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	mg/L	19.2	20.0	96	85 - 115	X510019	05-Mar-25	
EPA 200.7	Magnesium	mg/L	19.1	20.0	95.7	85 - 115	X510019	05-Mar-25	
EPA 200.7	Potassium	mg/L	19.7	20.0	98.5	85 - 115	X510019	05-Mar-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.06	1.00	106	85 - 115	X510203	10-Mar-25	
EPA 200.7	Barium	mg/L	1.10	1.00	110	85 - 115	X510203	10-Mar-25	
EPA 200.7	Beryllium	mg/L	1.04	1.00	104	85 - 115	X510203	10-Mar-25	
EPA 200.7	Boron	mg/L	1.05	1.00	105	85 - 115	X510203	10-Mar-25	
EPA 200.7	Cadmium	mg/L	1.08	1.00	108	85 - 115	X510203	10-Mar-25	
EPA 200.7	Calcium	mg/L	21.3	20.0	107	85 - 115	X510203	10-Mar-25	
EPA 200.7	Chromium	mg/L	1.09	1.00	109	85 - 115	X510203	10-Mar-25	
EPA 200.7	Cobalt	mg/L	1.05	1.00	105	85 - 115	X510203	10-Mar-25	
EPA 200.7	Copper	mg/L	1.03	1.00	103	85 - 115	X510203	10-Mar-25	
EPA 200.7	Iron	mg/L	10.9	10.0	109	85 - 115	X510203	10-Mar-25	
EPA 200.7	Lead	mg/L	1.08	1.00	108	85 - 115	X510203	10-Mar-25	
EPA 200.7	Lithium	mg/L	1.02	1.00	102	85 - 115	X510203	10-Mar-25	
EPA 200.7	Magnesium	mg/L	20.7	20.0	104	85 - 115	X510203	10-Mar-25	
EPA 200.7	Manganese	mg/L	1.08	1.00	108	85 - 115	X510203	10-Mar-25	
EPA 200.7	Molybdenum	mg/L	1.08	1.00	108	85 - 115	X510203	10-Mar-25	
EPA 200.7	Nickel	mg/L	1.07	1.00	107	85 - 115	X510203	10-Mar-25	
EPA 200.7	Potassium	mg/L	21.1	20.0	106	85 - 115	X510203	10-Mar-25	
EPA 200.7	Silver	mg/L	0.0523	0.0500	105	85 - 115	X510203	10-Mar-25	
EPA 200.7	Sodium	mg/L	20.4	19.0	107	85 - 115	X510203	10-Mar-25	
EPA 200.7	Vanadium	mg/L	1.07	1.00	107	85 - 115	X510203	10-Mar-25	
EPA 200.7	Zinc	mg/L	1.06	1.00	106	85 - 115	X510203	10-Mar-25	
EPA 200.8	Antimony	mg/L	0.0243	0.0250	97.1	85 - 115	X509169	04-Mar-25	
EPA 200.8	Arsenic	mg/L	0.0232	0.0250	92.7	85 - 115	X509169	04-Mar-25	
EPA 200.8	Selenium	mg/L	0.0217	0.0250	86.7	85 - 115	X509169	04-Mar-25	
EPA 200.8	Thallium	mg/L	0.0251	0.0250	101	85 - 115	X509169	04-Mar-25	
EPA 200.8	Uranium	mg/L	0.0272	0.0250	109	85 - 115	X509169	04-Mar-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00206	0.00200	103	85 - 115	X510029	10-Mar-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.109	0.100	109	90 - 110	X510021	05-Mar-25	
EPA 335.4	Cyanide (total)	mg/L	0.0961	0.100	96.1	90 - 110	X510007	04-Mar-25	
EPA 350.1	Ammonia as N	mg/L	0.990	1.00	99.0	90 - 110	X510079	07-Mar-25	
OIA 1677	Cyanide (WAD)	mg/L	0.101	0.100	101	90 - 110	X511001	11-Mar-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	702	706	99.5	95.4 - 104	X510197	06-Mar-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.70	9.93	97.7	94 - 106	X510134	05-Mar-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	101	94 - 106	X510134	05-Mar-25	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X509212	04-Mar-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	2.92	3.00	97.3	90 - 110	X509125	27-Feb-25	
EPA 300.0	Fluoride	mg/L	1.99	2.00	99.3	90 - 110	X509125	27-Feb-25	
EPA 300.0	Nitrate as N	mg/L	1.96	2.00	98.0	90 - 110	X509125	27-Feb-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.50	4.50	100	90 - 110	X509125	27-Feb-25	
EPA 300.0	Nitrite as N	mg/L	2.54	2.50	102	90 - 110	X509125	27-Feb-25	
EPA 300.0	Sulfate as SO4	mg/L	9.67	10.0	96.7	90 - 110	X509125	27-Feb-25	

SVL holds the following certifications:

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

Work order Report Page 5 of 9

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0331**

Reported: 12-Mar-25 12:32

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO ₃	1600	1600	0.0	20	X510197 - X5B0247-01	06-Mar-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X510134 - X5B0303-02	05-Mar-25	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X510134 - X5B0303-02	05-Mar-25	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X510134 - X5B0303-02	05-Mar-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X510134 - X5B0303-02	05-Mar-25	
SM 2540 C	Total Diss. Solids	mg/L	176	198	11.8	10	X509211 - X5B0358-02	04-Mar-25	R2B
SM 2540 C	Total Diss. Solids	mg/L	555	563	1.4	10	X509211 - X5B0353-02	04-Mar-25	
SM 2540 D	Total Susp. Solids	mg/L	30.0	30.0	0.0	10	X509212 - X5B0353-02	04-Mar-25	
SM 4500 H B	pH @18.4°C	pH Units	2.8	2.8	0.0	20	X510134 - X5B0303-02	05-Mar-25	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	224	208	20.0	79	70 - 130	X510019 - X5B0334-01	05-Mar-25	
EPA 200.7	Calcium	mg/L	58.8	39.9	20.0	94	70 - 130	X510019 - X5B0353-01	05-Mar-25	
EPA 200.7	Magnesium	mg/L	45.5	25.0	20.0	103	70 - 130	X510019 - X5B0334-01	05-Mar-25	
EPA 200.7	Magnesium	mg/L	28.6	9.01	20.0	97.7	70 - 130	X510019 - X5B0353-01	05-Mar-25	
EPA 200.7	Potassium	mg/L	48.4	28.7	20.0	98.7	70 - 130	X510019 - X5B0334-01	05-Mar-25	
EPA 200.7	Potassium	mg/L	27.8	8.11	20.0	98.5	70 - 130	X510019 - X5B0353-01	05-Mar-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	2.23	1.13	1.00	110	70 - 130	X510203 - X5B0330-01	10-Mar-25	
EPA 200.7	Barium	mg/L	1.10	0.0161	1.00	108	70 - 130	X510203 - X5B0330-01	10-Mar-25	
EPA 200.7	Beryllium	mg/L	1.01	<0.00200	1.00	101	70 - 130	X510203 - X5B0330-01	10-Mar-25	
EPA 200.7	Boron	mg/L	1.09	<0.0400	1.00	106	70 - 130	X510203 - X5B0330-01	10-Mar-25	
EPA 200.7	Cadmium	mg/L	0.995	0.0116	1.00	98.3	70 - 130	X510203 - X5B0330-01	10-Mar-25	
EPA 200.7	Calcium	mg/L	430	403	20.0	0.30R>S	70 - 130	X510203 - X5B0330-01	10-Mar-25	M3
EPA 200.7	Chromium	mg/L	1.04	<0.0060	1.00	104	70 - 130	X510203 - X5B0330-01	10-Mar-25	
EPA 200.7	Cobalt	mg/L	1.00	0.0262	1.00	97.4	70 - 130	X510203 - X5B0330-01	10-Mar-25	
EPA 200.7	Copper	mg/L	1.08	0.0198	1.00	106	70 - 130	X510203 - X5B0330-01	10-Mar-25	
EPA 200.7	Iron	mg/L	10.8	<0.100	10.0	108	70 - 130	X510203 - X5B0330-01	10-Mar-25	
EPA 200.7	Lead	mg/L	1.01	<0.0075	1.00	101	70 - 130	X510203 - X5B0330-01	10-Mar-25	
EPA 200.7	Lithium	mg/L	1.27	0.104	1.00	116	70 - 130	X510203 - X5B0330-01	10-Mar-25	
EPA 200.7	Magnesium	mg/L	193	168	20.0	122	70 - 130	X510203 - X5B0330-01	10-Mar-25	
EPA 200.7	Manganese	mg/L	4.78	3.73	1.00	105	70 - 130	X510203 - X5B0330-01	10-Mar-25	
EPA 200.7	Molybdenum	mg/L	1.08	0.0373	1.00	104	70 - 130	X510203 - X5B0330-01	10-Mar-25	
EPA 200.7	Nickel	mg/L	1.03	0.0344	1.00	99.7	70 - 130	X510203 - X5B0330-01	10-Mar-25	
EPA 200.7	Potassium	mg/L	24.0	2.74	20.0	106	70 - 130	X510203 - X5B0330-01	10-Mar-25	
EPA 200.7	Silver	mg/L	0.0527	<0.0050	0.0500	105	70 - 130	X510203 - X5B0330-01	10-Mar-25	
EPA 200.7	Sodium	mg/L	84.2	63.2	19.0	110	70 - 130	X510203 - X5B0330-01	10-Mar-25	
EPA 200.7	Vanadium	mg/L	1.05	<0.0050	1.00	104	70 - 130	X510203 - X5B0330-01	10-Mar-25	
EPA 200.7	Zinc	mg/L	1.59	0.615	1.00	97.9	70 - 130	X510203 - X5B0330-01	10-Mar-25	
EPA 200.8	Antimony	mg/L	0.0232	<0.0100	0.0250	92.7	70 - 130	X509169 - X5B0222-01	04-Mar-25	D17
EPA 200.8	Antimony	mg/L	0.0275	<0.0100	0.0250	110	70 - 130	X509169 - X5B0303-01	04-Mar-25	D17
EPA 200.8	Arsenic	mg/L	0.273	0.270	0.0250	0.30R>S	70 - 130	X509169 - X5B0222-01	04-Mar-25	D17,M4
EPA 200.8	Arsenic	mg/L	0.439	0.408	0.0250	125	70 - 130	X509169 - X5B0303-01	04-Mar-25	D17
EPA 200.8	Selenium	mg/L	0.0574	0.0361	0.0250	85.2	70 - 130	X509169 - X5B0222-01	04-Mar-25	D17
EPA 200.8	Selenium	mg/L	0.0617	0.0410	0.0250	82.8	70 - 130	X509169 - X5B0303-01	04-Mar-25	D17

SVL holds the following certifications:

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

Work order Report Page 6 of 9

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0331**

Reported: 12-Mar-25 12:32

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
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Metals (Dissolved) (Continued)

EPA 200.8	Thallium	mg/L	0.0251	<0.00200	0.0250	100	70 - 130	X509169 - X5B0222-01	04-Mar-25	D17
EPA 200.8	Thallium	mg/L	0.0317	<0.00200	0.0250	127	70 - 130	X509169 - X5B0303-01	04-Mar-25	D17
EPA 200.8	Uranium	mg/L	2.06	2.11	0.0250	0.30R>S	70 - 130	X509169 - X5B0222-01	04-Mar-25	D17,M4
EPA 200.8	Uranium	mg/L	5.83	5.55	0.0250	0.30R>S	70 - 130	X509169 - X5B0303-01	04-Mar-25	M4

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00643	0.00436	0.00200	104	70 - 130	X510029 - X5B0338-05	10-Mar-25	
EPA 245.1	Mercury	mg/L	0.00207	<0.000200	0.00200	104	70 - 130	X510029 - X5B0331-01	10-Mar-25	

Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.114	0.0056	0.100	108	79 - 121	X510021 - X5B0330-01	05-Mar-25	
EPA 335.4	Cyanide (total)	mg/L	0.0980	<0.0050	0.100	98.0	90 - 110	X510007 - X5B0330-01	04-Mar-25	
EPA 335.4	Cyanide (total)	mg/L	0.0716	<0.0050	0.100	71.6	90 - 110	X510007 - X5B0303-01	04-Mar-25	M2
EPA 350.1	Ammonia as N	mg/L	1.02	<0.030	1.00	102	90 - 110	X510079 - X5B0331-01	07-Mar-25	
EPA 350.1	Ammonia as N	mg/L	1.07	<0.030	1.00	107	90 - 110	X510079 - X5B0330-01	07-Mar-25	
OIA 1677	Cyanide (WAD)	mg/L	0.0768	<0.0050	0.100	76.8	82 - 118	X511001 - X5B0330-01	11-Mar-25	M2

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.22	0.27	3.00	98.3	90 - 110	X509125 - X5B0308-01	27-Feb-25	
EPA 300.0	Chloride	mg/L	3.26	0.29	3.00	99.1	90 - 110	X509125 - X5B0308-02	27-Feb-25	
EPA 300.0	Fluoride	mg/L	2.68	0.691	2.00	99.4	90 - 110	X509125 - X5B0308-01	27-Feb-25	
EPA 300.0	Fluoride	mg/L	2.01	0.315	2.00	84.9	90 - 110	X509125 - X5B0308-02	27-Feb-25	M2
EPA 300.0	Nitrate as N	mg/L	1.99	<0.050	2.00	99.4	90 - 110	X509125 - X5B0308-01	27-Feb-25	
EPA 300.0	Nitrate as N	mg/L	2.04	<0.050	2.00	102	90 - 110	X509125 - X5B0308-02	27-Feb-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.06	<0.100	4.00	102	90 - 110	X509125 - X5B0308-01	27-Feb-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.08	<0.100	4.00	102	90 - 110	X509125 - X5B0308-02	27-Feb-25	
EPA 300.0	Nitrite as N	mg/L	2.08	<0.050	2.00	104	90 - 110	X509125 - X5B0308-01	27-Feb-25	
EPA 300.0	Nitrite as N	mg/L	2.04	<0.050	2.00	102	90 - 110	X509125 - X5B0308-02	27-Feb-25	
EPA 300.0	Sulfate as SO4	mg/L	113	105	10.0	0.30R>S	90 - 110	X509125 - X5B0308-01	01-Mar-25	M4
EPA 300.0	Sulfate as SO4	mg/L	651	641	10.0	98.5	90 - 110	X509125 - X5B0308-02	04-Mar-25	

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	mg/L	229	224	20.0	2.0	20	102	X510019 - X5B0334-01	
EPA 200.7	Magnesium	mg/L	46.3	45.5	20.0	1.6	20	106	X510019 - X5B0334-01	
EPA 200.7	Potassium	mg/L	49.3	48.4	20.0	2.0	20	103	X510019 - X5B0334-01	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	2.28	2.23	1.00	1.9	20	114	X510203 - X5B0330-01	
EPA 200.7	Barium	mg/L	1.10	1.10	1.00	0.2	20	108	X510203 - X5B0330-01	
EPA 200.7	Beryllium	mg/L	1.08	1.01	1.00	6.7	20	108	X510203 - X5B0330-01	
EPA 200.7	Boron	mg/L	1.11	1.09	1.00	1.8	20	108	X510203 - X5B0330-01	
EPA 200.7	Cadmium	mg/L	1.07	0.995	1.00	7.4	20	106	X510203 - X5B0330-01	
EPA 200.7	Calcium	mg/L	429	430	20.0	0.1	20	0.30R>S	X510203 - X5B0330-01	M3
EPA 200.7	Chromium	mg/L	1.10	1.04	1.00	6.3	20	110	X510203 - X5B0330-01	
EPA 200.7	Cobalt	mg/L	1.07	1.00	1.00	7.1	20	105	X510203 - X5B0330-01	
EPA 200.7	Copper	mg/L	1.15	1.08	1.00	6.3	20	113	X510203 - X5B0330-01	
EPA 200.7	Iron	mg/L	11.0	10.8	10.0	1.8	20	110	X510203 - X5B0330-01	
EPA 200.7	Lead	mg/L	1.09	1.01	1.00	7.7	20	109	X510203 - X5B0330-01	

SVL holds the following certifications:

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

Work order Report Page 7 of 9



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

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0331**

Reported: 12-Mar-25 12:32

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Lithium	mg/L	1.28	1.27	1.00	1.2	20	118	X510203 - X5B0330-01	
EPA 200.7	Magnesium	mg/L	196	193	20.0	1.4	20	0.30R>S	X510203 - X5B0330-01	M3
EPA 200.7	Manganese	mg/L	4.87	4.78	1.00	1.9	20	114	X510203 - X5B0330-01	
EPA 200.7	Molybdenum	mg/L	1.15	1.08	1.00	6.9	20	112	X510203 - X5B0330-01	
EPA 200.7	Nickel	mg/L	1.10	1.03	1.00	6.9	20	107	X510203 - X5B0330-01	
EPA 200.7	Potassium	mg/L	24.3	24.0	20.0	1.0	20	108	X510203 - X5B0330-01	
EPA 200.7	Silver	mg/L	0.0539	0.0527	0.0500	2.3	20	108	X510203 - X5B0330-01	
EPA 200.7	Sodium	mg/L	84.4	84.2	19.0	0.2	20	111	X510203 - X5B0330-01	
EPA 200.7	Vanadium	mg/L	1.12	1.05	1.00	6.4	20	111	X510203 - X5B0330-01	
EPA 200.7	Zinc	mg/L	1.69	1.59	1.00	6.0	20	108	X510203 - X5B0330-01	
EPA 200.8	Antimony	mg/L	0.0256	0.0232	0.0250	10.0	20	102	X509169 - X5B0222-01	D17
EPA 200.8	Arsenic	mg/L	0.300	0.273	0.0250	9.3	20	117	X509169 - X5B0222-01	D17
EPA 200.8	Selenium	mg/L	0.0566	0.0574	0.0250	1.3	20	82.2	X509169 - X5B0222-01	D17
EPA 200.8	Thallium	mg/L	0.0278	0.0251	0.0250	10.2	20	111	X509169 - X5B0222-01	D17
EPA 200.8	Uranium	mg/L	2.28	2.06	0.0250	10.1	20	0.30R>S	X509169 - X5B0222-01	D17,M4
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00646	0.00643	0.00200	0.5	20	105	X510029 - X5B0338-05	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.121	0.114	0.100	6.4	11	116	X510021 - X5B0330-01	
EPA 335.4	Cyanide (total)	mg/L	0.102	0.0980	0.100	3.5	20	102	X510007 - X5B0330-01	
EPA 350.1	Ammonia as N	mg/L	1.09	1.02	1.00	6.6	20	109	X510079 - X5B0331-01	
OIA 1677	Cyanide (WAD)	mg/L	0.0794	0.0768	0.100	3.3	11	79.4	X511001 - X5B0330-01	M2
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.37	3.22	3.00	4.6	20	103	X509125 - X5B0308-01	
EPA 300.0	Fluoride	mg/L	2.79	2.68	2.00	4.0	20	105	X509125 - X5B0308-01	
EPA 300.0	Nitrate as N	mg/L	2.11	1.99	2.00	5.9	20	105	X509125 - X5B0308-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.22	4.06	4.00	3.9	20	106	X509125 - X5B0308-01	
EPA 300.0	Nitrite as N	mg/L	2.12	2.08	2.00	1.9	20	106	X509125 - X5B0308-01	
EPA 300.0	Sulfate as SO4	mg/L	111	113	10.0	1.5	20	0.30R>S	X509125 - X5B0308-01	M4



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

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5B0331**

Reported: 12-Mar-25 12:32

Notes and Definitions

D17	Due to an internal standard failure at a lower dilution, a sample dilution was performed.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
R2B	RPD exceeded the laboratory acceptance limit.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

Attachment 2

Sampling Logs

**Newmont Mining Co
Cripple Creek & Victor Gold Mining Co
Surface Water Sampling Log**

Location: Emp-17

Date: 2/18/25

Technician: J. Cranford

Quarter: 1

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
12:41	_____	Dry	_____	_____

Sample Method: _____

Oil/Gas visible [Y/N]

Turbid [Y/N]

Clear [Y/N]

Weather: 16° F, Sunny

Signature: 

Comments / Notes:

Emp-17 is Dry

** Field Parameters (pH, Conductivity, Temperature, and ORP) must be analyzed within 15 minutes of sample collection.*

**Newmont Mining Co
Cripple Creek & Victor Gold Mining Co
Surface Water Sampling Log**

Location: Emp-17A

Date: 2/18/25

Technician: J. Cranford

Quarter: 1

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
12:44	<u> </u>	<u>Dry</u>	<u> </u>	<u> </u>

Sample Method:

Oil/Gas visible [Y/N]

Turbid [Y/N]

Clear [Y/N]

Weather: 16°F, Sunny

Signature: 

Comments / Notes:

Emp-17A is Dry

** Field Parameters (pH, Conductivity, Temperature, and ORP) must be analyzed within 15 minutes of sample collection.*

**Newmont Mining Co
Cripple Creek & Victor Gold Mining Co
Surface Water Sampling Log**

Location: Emp-17B

Date: 2/18/25

Technician: J. Cranford

Quarter: 1

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
12:47	<u> </u>	<u>Dry</u>	<u> </u>	<u> </u>

Sample Method:

Oil/Gas visible [Y/N]

Turbid [Y/N]

Clear [Y/N]

Weather: 16°F, Sunny

Signature: 

Comments / Notes:

Emp-17B is Dry

** Field Parameters (pH, Conductivity, Temperature, and ORP) must be analyzed within 15 minutes of sample collection.*

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co
Surface Water Sampling Log

Location: EMP-20

Date: 2/18/25

Technician: J. Cranford

Quarter: 1

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
12:50	_____	Dry	_____	_____

Sample Method: _____

Oil/Gas visible ~~[Y/N]~~

Turbid ~~[Y/N]~~

Clear ~~[Y/N]~~

Weather: 16° F, Sunny

Signature: _____

Comments / Notes:

EMP-20 is Dry

** Field Parameters (pH, Conductivity, Temperature, and ORP) must be analyzed within 15 minutes of sample collection.*

**Newmont Mining Co
Cripple Creek & Victor Gold Mining Co
Surface Water Sampling Log**

Location: GV-02

Date: 2/18/25

Technician: J. Cranford

Quarter: 1

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
2:08	<u> </u>	<u>Dry</u>	<u> </u>	<u> </u>

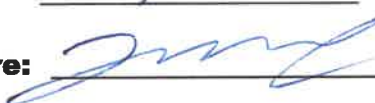
Sample Method:

Oil/Gas visible ~~{Y/N}~~

Turbid ~~{Y/N}~~

Clear ~~{Y/N}~~

Weather: 16° F, Sunny

Signature: 

Comments / Notes:

GV-02 is Dry

** Field Parameters (pH, Conductivity, Temperature, and ORP) must be analyzed within 15 minutes of sample collection.*

**Newmont Mining Co
Cripple Creek & Victor Gold Mining Co
Surface Water Sampling Log**

Location: GV-03

Date: 2/18/25

Technician: J. Cranford

Quarter: 1

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
2:17	<u> </u>	<u>Dry</u>	<u> </u>	<u> </u>

Sample Method:

Oil/Gas visible ~~[Y/N]~~

Turbid ~~[Y/N]~~

Clear ~~[Y/N]~~

Weather: 16°F, Sunny

Signature: 

Comments / Notes:

GV-03 is Dry

** Field Parameters (pH, Conductivity, Temperature, and ORP) must be analyzed within 15 minutes of sample collection.*

**Newmont Mining Co
Cripple Creek & Victor Gold Mining Co
Surface Water Sampling Log**

Location: GV-4.5

Date: 2/18/25

Technician: J. Cranford

Quarter: 1

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
2:21	<u> </u>	<u>Dry</u>	<u> </u>	<u> </u>

Sample Method:

Oil/Gas visible ~~[Y/N]~~

Turbid ~~[Y/N]~~

Clear ~~[Y/N]~~

Weather: 16° F, Sunny

Signature: 

Comments / Notes:

GV-4.5 is Dry

** Field Parameters (pH, Conductivity, Temperature, and ORP) must be analyzed within 15 minutes of sample collection.*

**Newmont Mining Co
Cripple Creek & Victor Gold Mining Co
Surface Water Sampling Log**

Location: GV-5

Date: 2/18/25

Technician: J. Cranford

Quarter: 1

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
2:23	<u> </u>	<u>Dry</u>	<u> </u>	<u> </u>

Sample Method:

Oil/Gas visible ~~[Y/N]~~

Turbid ~~[Y/N]~~

Clear ~~[Y/N]~~

Weather: 16° F, Sunny

Signature: 

Comments / Notes:

GV-5 is Dry

** Field Parameters (pH, Conductivity, Temperature, and ORP) must be analyzed within 15 minutes of sample collection.*

**Newmont Mining Co
Cripple Creek & Victor Gold Mining Co
Surface Water Sampling Log**

Location: GV-6

Date: 2/18/25

Technician: J. Cranford

Quarter: 1

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
2:25	_____	Dry	_____	_____

Sample Method: _____

Oil/Gas visible ~~[Y/N]~~

Turbid ~~[Y/N]~~

Clear ~~[Y/N]~~

Weather: 16° F, Sunny

Signature: 

Comments / Notes:

GV-6 is Dry

** Field Parameters (pH, Conductivity, Temperature, and ORP) must be analyzed within 15 minutes of sample collection.*

Low-Flow Test Report:

Test Date / Time: 2/17/2025 10:55:52 AM
Project: Grassy Valley
Operator Name: Treed

Location Name: GVMW-4A Latitude: 38.75046072326643 Longitude: -105.13400610690164 Well Diameter: 4 in Total Depth: 480 ft Initial Depth to Water: 40.32 ft	Estimated Total Volume Pumped: 2.5 gal Flow Cell Volume: 130 ml Final Flow Rate: 0.05 gal/min Final Draw Down: 0.2 ft	Instrument Used: Aqua TROLL 600 Serial Number: 1109809
---	---	---

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10	+/- 0.33	
2/17/2025 10:55 AM	00:00	6.98 pH	4.90 °C	235.76 µS/cm	5.03 mg/L	401.0 mV	40.32 ft	0.05 gal/min
2/17/2025 11:00 AM	05:00	6.41 pH	4.94 °C	316.61 µS/cm	0.92 mg/L	97.7 mV	40.39 ft	0.05 gal/min
2/17/2025 11:05 AM	10:00	6.40 pH	5.31 °C	321.04 µS/cm	0.51 mg/L	66.5 mV	40.46 ft	0.05 gal/min
2/17/2025 11:10 AM	15:00	6.39 pH	5.55 °C	320.63 µS/cm	0.39 mg/L	51.7 mV	40.52 ft	0.05 gal/min
2/17/2025 11:15 AM	20:00	6.41 pH	5.51 °C	320.61 µS/cm	0.27 mg/L	40.8 mV	40.52 ft	0.05 gal/min
2/17/2025 11:20 AM	25:00	6.43 pH	5.59 °C	318.95 µS/cm	0.31 mg/L	34.2 mV	40.52 ft	0.05 gal/min
2/17/2025 11:25 AM	30:00	6.43 pH	5.52 °C	316.24 µS/cm	0.33 mg/L	29.4 mV	40.52 ft	0.05 gal/min
2/17/2025 11:30 AM	35:00	6.44 pH	5.68 °C	316.77 µS/cm	0.29 mg/L	26.4 mV	40.52 ft	0.05 gal/min

Samples

Sample ID:	Description:
GVMW-4a	

Low-Flow Test Report:

Test Date / Time: 2/13/2025 11:19:33 AM
Project: Grassy Valley (4)
Operator Name: Treed

Location Name: GVMW-7A Latitude: 38.74769668980082 Longitude: -105.12439627182846 Well Diameter: 3 in Total Depth: 200 ft Initial Depth to Water: 33.72 ft	Estimated Total Volume Pumped: 4 gal Flow Cell Volume: 130 ml Final Flow Rate: 0.03 gal/min Final Draw Down: 0.25 ft	Instrument Used: Aqua TROLL 600 Serial Number: 1109809
---	--	---

Test Notes:
Use 5 gal bucket

Weather Conditions:
25 F Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10	+/- 0.33	
2/13/2025 11:19 AM	00:00	7.31 pH	2.42 °C	341.68 µS/cm	1.95 mg/L	117.0 mV	33.72 ft	0.03 gal/min
2/13/2025 11:24 AM	05:00	7.33 pH	3.91 °C	367.21 µS/cm	0.29 mg/L	61.1 mV	33.85 ft	0.03 gal/min
2/13/2025 11:29 AM	10:00	7.35 pH	4.21 °C	386.40 µS/cm	0.18 mg/L	36.3 mV	33.89 ft	0.03 gal/min
2/13/2025 11:34 AM	15:00	7.34 pH	4.46 °C	395.85 µS/cm	0.15 mg/L	26.9 mV	33.92 ft	0.03 gal/min
2/13/2025 11:39 AM	20:00	7.34 pH	4.78 °C	404.77 µS/cm	0.13 mg/L	20.7 mV	33.95 ft	0.03 gal/min
2/13/2025 11:44 AM	25:00	7.33 pH	4.73 °C	409.48 µS/cm	0.11 mg/L	16.3 mV	33.97 ft	0.03 gal/min
2/13/2025 11:49 AM	30:00	7.34 pH	4.54 °C	407.18 µS/cm	0.10 mg/L	14.6 mV	33.97 ft	0.03 gal/min
2/13/2025 11:54 AM	35:00	7.35 pH	4.50 °C	403.93 µS/cm	0.10 mg/L	12.8 mV	33.97 ft	0.03 gal/min
2/13/2025 11:59 AM	40:00	7.35 pH	4.96 °C	404.90 µS/cm	0.11 mg/L	11.0 mV	33.97 ft	0.03 gal/min
2/13/2025 12:04 PM	45:00	7.35 pH	5.30 °C	403.42 µS/cm	0.12 mg/L	10.6 mV	33.97 ft	0.03 gal/min
2/13/2025 12:09 PM	50:00	7.35 pH	5.58 °C	404.09 µS/cm	0.15 mg/L	10.4 mV	33.97 ft	0.03 gal/min
2/13/2025 12:14 PM	55:00	7.35 pH	4.16 °C	408.43 µS/cm	0.20 mg/L	6.6 mV	33.97 ft	0.03 gal/min
2/13/2025 12:19 PM	01:00:00	7.34 pH	4.69 °C	408.18 µS/cm	0.17 mg/L	4.6 mV	33.97 ft	0.03 gal/min
2/13/2025 12:24 PM	01:05:00	7.32 pH	5.00 °C	414.72 µS/cm	0.17 mg/L	1.1 mV	33.97 ft	0.03 gal/min
2/13/2025 12:29 PM	01:10:00	7.33 pH	5.83 °C	403.85 µS/cm	0.04 mg/L	-14.2 mV	33.97 ft	0.03 gal/min

2/13/2025 12:34 PM	01:15:00	7.33 pH	5.90 °C	401.20 µS/cm	0.02 mg/L	-17.5 mV	33.97 ft	0.03 gal/min
2/13/2025 12:39 PM	01:20:00	7.32 pH	5.92 °C	410.89 µS/cm	0.01 mg/L	-13.8 mV	33.97 ft	0.03 gal/min

Samples

Sample ID:	Description:
GVMW-7a	

Low-Flow Test Report:

Test Date / Time: 2/18/2025 11:34:49 AM
Project: Grassy Valley (4)
Operator Name: J Cranford

Location Name: GVMW-7B Latitude: 38.74775649517658 Longitude: -105.12443239810422 Well Diameter: 4 in Total Depth: 50 ft Initial Depth to Water: 29.63 ft	Estimated Total Volume Pumped: 7 gal Flow Cell Volume: 130 ml Final Flow Rate: 0.15 gal/min Final Draw Down: 0.31 ft	Instrument Used: Aqua TROLL 600 Serial Number: 1109809
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Test Notes:
Temperature would not stabilize
All other parameters have stabilized.

Weather Conditions:
27 F Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10	+/- 0.33	
2/18/2025 11:34 AM	00:00	7.28 pH	5.31 °C	582.78 µS/cm	8.26 mg/L	98.6 mV	29.63 ft	0.15 gal/min
2/18/2025 11:39 AM	05:00	7.00 pH	6.57 °C	517.46 µS/cm	7.88 mg/L	117.7 mV	29.79 ft	0.15 gal/min
2/18/2025 11:44 AM	10:00	6.92 pH	6.40 °C	479.49 µS/cm	7.66 mg/L	122.4 mV	29.83 ft	0.15 gal/min
2/18/2025 11:49 AM	15:00	6.85 pH	6.90 °C	434.84 µS/cm	7.45 mg/L	124.7 mV	29.85 ft	0.15 gal/min
2/18/2025 11:54 AM	20:00	6.80 pH	6.05 °C	406.35 µS/cm	7.33 mg/L	126.2 mV	29.87 ft	0.15 gal/min
2/18/2025 11:59 AM	25:00	6.75 pH	6.48 °C	388.83 µS/cm	7.21 mg/L	124.4 mV	29.88 ft	0.15 gal/min
2/18/2025 12:04 PM	30:00	6.69 pH	7.42 °C	365.72 µS/cm	7.15 mg/L	124.7 mV	29.88 ft	0.15 gal/min
2/18/2025 12:09 PM	35:00	6.64 pH	7.35 °C	342.44 µS/cm	7.12 mg/L	127.3 mV	29.90 ft	0.15 gal/min
2/18/2025 12:14 PM	40:00	6.60 pH	7.12 °C	319.21 µS/cm	6.98 mg/L	130.2 mV	29.90 ft	0.15 gal/min
2/18/2025 12:19 PM	45:00	6.57 pH	6.81 °C	318.34 µS/cm	6.90 mg/L	133.7 mV	29.92 ft	0.15 gal/min
2/18/2025 12:24 PM	50:00	6.54 pH	7.65 °C	312.38 µS/cm	6.86 mg/L	136.2 mV	29.94 ft	0.15 gal/min
2/18/2025 12:29 PM	55:00	6.53 pH	7.17 °C	306.82 µS/cm	6.84 mg/L	139.5 mV	29.94 ft	0.15 gal/min
2/18/2025 12:34 PM	01:00:00	6.52 pH	7.38 °C	303.14 µS/cm	6.83 mg/L	142.2 mV	29.94 ft	0.15 gal/min
2/18/2025 12:39 PM	01:05:00	6.52 pH	7.58 °C	298.83 µS/cm	6.86 mg/L	144.1 mV	29.94 ft	0.15 gal/min

Samples

Sample ID:	Description:
GVMW-7B	Temperature would not stabilize All other parameters have stabilized.

Low-Flow Test Report:

Test Date / Time: 2/13/2025 10:04:38 AM
Project: Grassy Valley (3)
Operator Name: Treed

Location Name: GVMW-8A Latitude: 38.741363075049925 Longitude: -105.12025695478951 Well Diameter: 4 in Total Depth: 250 ft Initial Depth to Water: 132.34 ft	Estimated Total Volume Pumped: 3 gal Flow Cell Volume: 130 ml Final Flow Rate: 0.06 gal/min Final Draw Down: 0.06 ft	Instrument Used: Aqua TROLL 600 Serial Number: 1109809
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Test Notes:
Use 5 gal bucket

Weather Conditions:
14 F Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10	+/- 0.33	
2/13/2025 10:04 AM	00:00	6.91 pH	3.58 °C	452.85 µS/cm	2.62 mg/L	160.1 mV	132.34 ft	0.06 gal/min
2/13/2025 10:09 AM	05:00	6.88 pH	4.40 °C	452.76 µS/cm	2.72 mg/L	170.3 mV	132.39 ft	0.06 gal/min
2/13/2025 10:14 AM	10:00	6.84 pH	4.71 °C	455.59 µS/cm	3.30 mg/L	173.6 mV	132.39 ft	0.06 gal/min
2/13/2025 10:19 AM	15:00	6.83 pH	4.83 °C	456.91 µS/cm	3.58 mg/L	173.6 mV	132.40 ft	0.06 gal/min
2/13/2025 10:24 AM	20:00	6.82 pH	5.35 °C	456.97 µS/cm	3.60 mg/L	167.6 mV	132.40 ft	0.06 gal/min
2/13/2025 10:29 AM	25:00	6.82 pH	5.33 °C	450.92 µS/cm	3.57 mg/L	163.3 mV	132.40 ft	0.06 gal/min
2/13/2025 10:34 AM	30:00	6.82 pH	5.37 °C	443.52 µS/cm	3.46 mg/L	159.5 mV	132.40 ft	0.06 gal/min
2/13/2025 10:39 AM	35:00	6.83 pH	5.19 °C	444.33 µS/cm	3.41 mg/L	157.2 mV	132.40 ft	0.06 gal/min
2/13/2025 10:44 AM	40:00	6.83 pH	5.31 °C	439.85 µS/cm	3.34 mg/L	155.1 mV	132.40 ft	0.06 gal/min
2/13/2025 10:49 AM	45:00	6.83 pH	5.40 °C	444.85 µS/cm	3.27 mg/L	153.3 mV	132.40 ft	0.06 gal/min
2/13/2025 10:54 AM	50:00	6.83 pH	5.38 °C	437.19 µS/cm	3.20 mg/L	150.7 mV	132.40 ft	0.06 gal/min

Samples

Sample ID:	Description:
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GVMW-8a	
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Low-Flow Test Report:

Test Date / Time: 2/13/2025 8:35:48 AM
Project: Grassy Valley (2)
Operator Name: Treed

Location Name: GVMW-8B Latitude: 38.741379092969865 Longitude: -105.12024956581102 Well Diameter: 4 in Total Depth: 50 ft Initial Depth to Water: 42.43 ft	Estimated Total Volume Pumped: 3 gal Flow Cell Volume: 130 ml Final Flow Rate: 0.04 gal/min Final Draw Down: 0.67 ft	Instrument Used: Aqua TROLL 600 Serial Number: 1109809
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Test Notes:
Use 5 gal bucket

Temp did not stabilize

Weather Conditions:
13 F Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10	+/- 0.33	
2/13/2025 8:35 AM	00:00	6.77 pH	3.51 °C	444.68 µS/cm	8.06 mg/L	261.3 mV	42.43 ft	0.04 gal/min
2/13/2025 8:40 AM	05:00	6.71 pH	4.86 °C	437.58 µS/cm	8.03 mg/L	234.6 mV	42.56 ft	0.04 gal/min
2/13/2025 8:45 AM	10:00	6.74 pH	6.31 °C	436.07 µS/cm	8.06 mg/L	225.7 mV	42.89 ft	0.04 gal/min
2/13/2025 8:50 AM	15:00	6.75 pH	6.85 °C	433.70 µS/cm	7.93 mg/L	214.8 mV	43.10 ft	0.04 gal/min
2/13/2025 8:55 AM	20:00	6.79 pH	5.53 °C	426.01 µS/cm	7.70 mg/L	215.0 mV	43.10 ft	0.04 gal/min
2/13/2025 9:00 AM	25:00	6.79 pH	4.27 °C	283.90 µS/cm	7.89 mg/L	214.7 mV	43.10 ft	0.04 gal/min
2/13/2025 9:05 AM	30:00	6.80 pH	4.46 °C	432.87 µS/cm	7.89 mg/L	210.2 mV	43.10 ft	0.04 gal/min
2/13/2025 9:10 AM	35:00	6.80 pH	4.58 °C	431.41 µS/cm	7.63 mg/L	202.4 mV	43.10 ft	0.04 gal/min
2/13/2025 9:12 AM	36:57	6.79 pH	4.52 °C	431.65 µS/cm	7.60 mg/L	200.1 mV	43.10 ft	0.04 gal/min
2/13/2025 9:17 AM	41:57	6.79 pH	4.53 °C	427.70 µS/cm	7.48 mg/L	198.5 mV	43.10 ft	0.04 gal/min
2/13/2025 9:22 AM	46:57	6.79 pH	4.89 °C	435.07 µS/cm	7.68 mg/L	198.6 mV	43.10 ft	0.04 gal/min
2/13/2025 9:27 AM	51:57	6.77 pH	5.50 °C	363.80 µS/cm	7.54 mg/L	198.9 mV	43.10 ft	0.04 gal/min
2/13/2025 9:32 AM	57:11	6.68 pH	9.64 °C	431.72 µS/cm	7.37 mg/L	182.0 mV	43.10 ft	0.04 gal/min

2/13/2025 9:37 AM	01:02:11	6.74 pH	7.87 °C	429.34 µS/cm	7.39 mg/L	180.3 mV	43.10 ft	0.04 gal/min
2/13/2025 9:42 AM	01:07:11	6.75 pH	7.38 °C	431.33 µS/cm	7.41 mg/L	178.9 mV	43.10 ft	0.04 gal/min

Samples

Sample ID:	Description:
GVMW-8b	

Low-Flow Test Report:

Test Date / Time: 2/26/2025 1:16:11 PM
Project: Grassy Valley (8)
Operator Name: J Cranford

Location Name: GVMW-10 Latitude: 38.74236793517156 Longitude: -105.12436184804076 Well Diameter: 3 in Total Depth: 270 ft Initial Depth to Water: 230.37 ft	Estimated Total Volume Pumped: 5.5 gal Flow Cell Volume: 130 ml Final Flow Rate: 0.07 gal/min Final Draw Down: 0.04 ft	Instrument Used: Aqua TROLL 600 Serial Number: 1109809
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Test Notes:

Weather Conditions:
32 F Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10	+/- 0.33	
2/26/2025 1:16 PM	00:00	6.43 pH	4.84 °C	2,690.5 µS/cm	1.79 mg/L	280.3 mV	230.37 ft	0.07 gal/min
2/26/2025 1:21 PM	05:00	6.81 pH	4.82 °C	2,720.4 µS/cm	0.52 mg/L	285.7 mV	230.39 ft	0.07 gal/min
2/26/2025 1:26 PM	10:00	6.84 pH	5.27 °C	2,698.1 µS/cm	0.50 mg/L	283.2 mV	230.39 ft	0.07 gal/min
2/26/2025 1:31 PM	15:00	6.82 pH	5.05 °C	2,703.7 µS/cm	0.51 mg/L	279.5 mV	230.39 ft	0.07 gal/min
2/26/2025 1:36 PM	20:00	6.83 pH	5.16 °C	2,701.5 µS/cm	0.50 mg/L	275.2 mV	230.39 ft	0.07 gal/min
2/26/2025 1:41 PM	25:00	6.82 pH	5.06 °C	2,694.7 µS/cm	0.50 mg/L	265.1 mV	230.40 ft	0.07 gal/min
2/26/2025 1:46 PM	30:00	6.78 pH	5.30 °C	2,684.1 µS/cm	0.46 mg/L	253.1 mV	230.40 ft	0.07 gal/min
2/26/2025 1:51 PM	35:00	6.73 pH	7.05 °C	2,663.0 µS/cm	0.34 mg/L	247.0 mV	230.40 ft	0.07 gal/min
2/26/2025 1:56 PM	40:00	6.73 pH	8.34 °C	2,646.6 µS/cm	0.25 mg/L	249.0 mV	230.41 ft	0.07 gal/min
2/26/2025 2:01 PM	45:00	6.71 pH	9.28 °C	2,650.9 µS/cm	0.20 mg/L	251.9 mV	230.41 ft	0.07 gal/min
2/26/2025 2:06 PM	50:00	6.77 pH	9.99 °C	2,629.3 µS/cm	0.19 mg/L	251.2 mV	230.41 ft	0.07 gal/min
2/26/2025 2:11 PM	55:00	6.75 pH	10.19 °C	2,628.0 µS/cm	0.18 mg/L	253.3 mV	230.41 ft	0.07 gal/min
2/26/2025 2:16 PM	01:00:00	6.75 pH	9.96 °C	2,623.9 µS/cm	0.17 mg/L	252.9 mV	230.41 ft	0.07 gal/min

Samples

Sample ID:	Description:
GVMW-10	

Low-Flow Test Report:

Test Date / Time: 2/17/2025 1:01:34 PM
Project: Grassy Valley (6)
Operator Name: Treed

Location Name: GVMW-15a Latitude: 38.74936517465849 Longitude: -105.13566073083136 Well Diameter: 4 in Total Depth: 382 ft Initial Depth to Water: 91.94 ft	Estimated Total Volume Pumped: 4 gal Flow Cell Volume: 130 ml Final Flow Rate: 0.07 gal/min Final Draw Down: 1.38 ft	Instrument Used: Aqua TROLL 600 Serial Number: 1109809
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Test Notes:
Use 5 gal bucket Temp did

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10	+/- 0.33	
2/17/2025 1:01 PM	00:00	6.13 pH	4.83 °C	527.47 µS/cm	1.46 mg/L	84.1 mV	91.94 ft	0.07 gal/min
2/17/2025 1:06 PM	05:00	6.26 pH	5.21 °C	536.12 µS/cm	0.45 mg/L	57.8 mV	93.18 ft	0.07 gal/min
2/17/2025 1:11 PM	10:00	6.29 pH	5.00 °C	535.61 µS/cm	0.39 mg/L	47.2 mV	93.27 ft	0.07 gal/min
2/17/2025 1:16 PM	15:00	6.30 pH	5.60 °C	533.49 µS/cm	0.31 mg/L	39.8 mV	93.32 ft	0.07 gal/min
2/17/2025 1:21 PM	20:00	6.30 pH	6.12 °C	528.36 µS/cm	0.28 mg/L	34.5 mV	93.32 ft	0.07 gal/min
2/17/2025 1:26 PM	25:00	6.30 pH	6.22 °C	529.66 µS/cm	0.25 mg/L	30.7 mV	93.32 ft	0.07 gal/min
2/17/2025 1:31 PM	30:00	6.30 pH	6.22 °C	530.53 µS/cm	0.23 mg/L	27.5 mV	93.32 ft	0.07 gal/min

Samples

Sample ID:	Description:
GVMW-15a	

Low-Flow Test Report:

Test Date / Time: 2/17/2025 12:00:21 PM
Project: Grassy Valley (2)
Operator Name: Treed

Location Name: GVMW-15b Latitude: 38.74940034295925 Longitude: -105.13566835168923 Well Diameter: 4 in Total Depth: 102 ft Initial Depth to Water: 79.51 ft	Estimated Total Volume Pumped: 4 gal Flow Cell Volume: 130 ml Final Flow Rate: 0.06 gal/min Final Draw Down: 0.19 ft	Instrument Used: Aqua TROLL 600 Serial Number: 1109809
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10	+/- 0.33	
2/17/2025 12:00 PM	00:00	4.56 pH	3.83 °C	648.85 µS/cm	2.93 mg/L	98.7 mV	79.51 ft	0.06 gal/min
2/17/2025 12:05 PM	05:00	4.74 pH	4.69 °C	648.74 µS/cm	0.24 mg/L	99.5 mV	79.58 ft	0.06 gal/min
2/17/2025 12:10 PM	10:00	4.77 pH	6.03 °C	647.33 µS/cm	0.21 mg/L	101.5 mV	79.63 ft	0.06 gal/min
2/17/2025 12:15 PM	15:00	4.78 pH	7.33 °C	638.44 µS/cm	0.13 mg/L	101.5 mV	79.68 ft	0.06 gal/min
2/17/2025 12:20 PM	20:00	4.80 pH	7.73 °C	638.16 µS/cm	0.10 mg/L	102.3 mV	79.68 ft	0.06 gal/min
2/17/2025 12:25 PM	25:00	4.84 pH	7.72 °C	629.34 µS/cm	0.08 mg/L	99.7 mV	79.70 ft	0.06 gal/min
2/17/2025 12:30 PM	30:00	4.95 pH	7.86 °C	632.55 µS/cm	0.07 mg/L	94.6 mV	79.70 ft	0.06 gal/min
2/17/2025 12:35 PM	35:00	4.97 pH	7.91 °C	632.17 µS/cm	0.06 mg/L	92.1 mV	79.70 ft	0.06 gal/min
2/17/2025 12:40 PM	40:00	4.96 pH	7.84 °C	628.79 µS/cm	0.05 mg/L	90.3 mV	79.70 ft	0.06 gal/min

Samples

Sample ID:	Description:
GVMW-15b	

Low-Flow Test Report:

Test Date / Time: 2/11/2025 12:24:11 PM
Project: Grassy Valley
Operator Name: Treed

Location Name: GVMW-22A Latitude: 38.74078146495875 Longitude: -105.11106706709866 Well Diameter: 4 in Total Depth: 70 ft Initial Depth to Water: 3.95 ft	Estimated Total Volume Pumped: 2 gal Flow Cell Volume: 130 ml Final Flow Rate: 0.08 gal/min Final Draw Down: 0.37 ft	Instrument Used: Aqua TROLL 600 Serial Number: 1109809
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Test Notes:
Use 5 gallon bucket

Weather Conditions:
24 F Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10	+/- 0.33	
2/11/2025 12:24 PM	00:00	7.54 pH	5.39 °C	434.52 µS/cm	1.48 mg/L	160.5 mV	3.95 ft	0.08 gal/min
2/11/2025 12:29 PM	05:00	7.66 pH	5.71 °C	433.58 µS/cm	0.77 mg/L	154.7 mV	4.15 ft	0.08 gal/min
2/11/2025 12:34 PM	10:00	7.69 pH	5.41 °C	430.85 µS/cm	0.76 mg/L	155.4 mV	4.28 ft	0.08 gal/min
2/11/2025 12:39 PM	15:00	7.70 pH	5.31 °C	429.50 µS/cm	0.75 mg/L	155.7 mV	4.32 ft	0.08 gal/min
2/11/2025 12:44 PM	20:00	7.70 pH	5.26 °C	430.39 µS/cm	0.73 mg/L	155.8 mV	4.32 ft	0.08 gal/min

Samples

Sample ID:	Description:
GVMW-22a	

Low-Flow Test Report:

Test Date / Time: 2/11/2025 11:49:01 AM
Project: Grassy Valley
Operator Name: Treed

Location Name: GVMW-22b Latitude: 38.740841767366916 Longitude: -105.11109064497646 Well Diameter: 4 in Total Depth: 30 ft Initial Depth to Water: 4.51 ft	Estimated Total Volume Pumped: 1.25 gal Flow Cell Volume: 130 ml Final Flow Rate: 0.04 gal/min Final Draw Down: 0.05 ft	Instrument Used: Aqua TROLL 600 Serial Number: 1109809
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Test Notes:
Use 5 gal bucket

Weather Conditions:
23F sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10	+/- 0.33	
2/11/2025 11:49 AM	00:00	6.59 pH	6.31 °C	461.04 µS/cm	0.38 mg/L	162.8 mV	4.51 ft	0.04 gal/min
2/11/2025 11:54 AM	05:00	6.60 pH	6.40 °C	460.26 µS/cm	0.34 mg/L	167.0 mV	4.51 ft	0.04 gal/min
2/11/2025 11:59 AM	10:00	6.60 pH	6.26 °C	459.64 µS/cm	0.32 mg/L	168.3 mV	4.52 ft	0.04 gal/min
2/11/2025 12:00 PM	11:37	6.59 pH	6.20 °C	459.97 µS/cm	0.32 mg/L	168.5 mV	4.53 ft	0.04 gal/min
2/11/2025 12:01 PM	12:49	6.58 pH	6.28 °C	460.42 µS/cm	0.31 mg/L	168.6 mV	4.54 ft	0.04 gal/min
2/11/2025 12:06 PM	17:49	6.60 pH	6.24 °C	459.14 µS/cm	0.30 mg/L	168.7 mV	4.56 ft	0.04 gal/min
2/11/2025 12:08 PM	19:53	6.59 pH	6.31 °C	459.15 µS/cm	0.31 mg/L	168.6 mV	4.56 ft	0.04 gal/min

Samples

Sample ID:	Description:
GVMW-22b	

Low-Flow Test Report:

Test Date / Time: 2/20/2025 8:18:26 AM
Project: Grassy Valley (7)
Operator Name: Jcranford

Location Name: GVMW-25 Latitude: 38.71048101372048 Longitude: -105.13992245497579 Well Diameter: 4 in Total Depth: 79 ft Initial Depth to Water: 61.42 ft	Estimated Total Volume Pumped: 3.5 gal Flow Cell Volume: 130 ml Final Flow Rate: 0.05 gal/min Final Draw Down: 0.13 ft	Instrument Used: Aqua TROLL 600 Serial Number: 1109809
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Test Notes:
Use 5 gallon bucket

Weather Conditions:
24 F Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10	+/- 0.33	
2/20/2025 8:18 AM	00:00	3.98 pH	6.59 °C	4,923.4 µS/cm	1.33 mg/L	379.5 mV	61.42 ft	0.05 gal/min
2/20/2025 8:18 AM	00:30	4.01 pH	6.19 °C	4,940.5 µS/cm	1.09 mg/L	379.3 mV	61.42 ft	0.05 gal/min
2/20/2025 8:23 AM	05:30	4.13 pH	6.07 °C	5,001.7 µS/cm	0.54 mg/L	392.9 mV	61.44 ft	0.05 gal/min
2/20/2025 8:28 AM	10:30	4.12 pH	7.52 °C	4,965.7 µS/cm	0.45 mg/L	398.5 mV	61.44 ft	0.05 gal/min
2/20/2025 8:33 AM	15:30	4.13 pH	8.20 °C	4,902.3 µS/cm	0.47 mg/L	400.8 mV	61.48 ft	0.05 gal/min
2/20/2025 8:38 AM	20:30	4.13 pH	8.62 °C	4,847.7 µS/cm	0.50 mg/L	403.4 mV	61.51 ft	0.05 gal/min
2/20/2025 8:43 AM	25:30	4.12 pH	8.63 °C	4,825.0 µS/cm	0.48 mg/L	407.6 mV	61.53 ft	0.05 gal/min
2/20/2025 8:48 AM	30:30	4.12 pH	8.89 °C	4,806.7 µS/cm	0.43 mg/L	412.8 mV	61.55 ft	0.05 gal/min
2/20/2025 8:53 AM	35:30	4.12 pH	8.91 °C	4,774.2 µS/cm	0.41 mg/L	417.1 mV	61.55 ft	0.05 gal/min
2/20/2025 8:58 AM	40:30	4.11 pH	8.92 °C	4,771.9 µS/cm	0.39 mg/L	421.0 mV	61.55 ft	0.05 gal/min

Samples

Sample ID:	Description:
GVMW-25	

Low-Flow Test Report:

Test Date / Time: 2/11/2025 8:14:26 AM
Project: Low-Flow Test 8 (4)
Operator Name: Treed

Location Name: GVMW-26a Latitude: 38.73958081867412 Longitude: -105.11110790884048 Well Diameter: 4 in Total Depth: 70 ft Initial Depth to Water: 6.6 ft	Estimated Total Volume Pumped: 3.5 gal Flow Cell Volume: 130 ml Final Flow Rate: 0.07 gal/min Final Draw Down: 0.08 ft	Instrument Used: Aqua TROLL 600 Serial Number: 1109809
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Test Notes:
Temp did not stabilize.

Weather Conditions:
14 f sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10	+/- 0.33	
2/11/2025 8:14 AM	00:00	7.48 pH	4.12 °C	339.20 µS/cm	2.14 mg/L	181.1 mV	6.62 ft	0.07 gal/min
2/11/2025 8:19 AM	05:00	7.75 pH	4.34 °C	376.19 µS/cm	0.21 mg/L	99.6 mV	6.64 ft	0.07 gal/min
2/11/2025 8:24 AM	10:00	7.83 pH	4.31 °C	373.59 µS/cm	0.14 mg/L	117.5 mV	6.65 ft	0.07 gal/min
2/11/2025 8:29 AM	15:00	7.85 pH	3.72 °C	372.04 µS/cm	0.14 mg/L	125.8 mV	6.67 ft	0.07 gal/min
2/11/2025 8:34 AM	20:00	7.86 pH	3.46 °C	372.49 µS/cm	0.12 mg/L	129.6 mV	6.68 ft	0.07 gal/min
2/11/2025 8:39 AM	25:00	7.85 pH	3.52 °C	371.99 µS/cm	0.10 mg/L	132.7 mV	6.68 ft	0.07 gal/min
2/11/2025 8:44 AM	30:00	7.86 pH	3.07 °C	370.36 µS/cm	0.08 mg/L	133.7 mV	6.68 ft	0.07 gal/min
2/11/2025 8:49 AM	35:00	7.86 pH	2.85 °C	372.54 µS/cm	0.07 mg/L	135.4 mV	6.68 ft	0.07 gal/min
2/11/2025 8:54 AM	40:00	7.87 pH	3.35 °C	368.75 µS/cm	0.07 mg/L	131.6 mV	6.68 ft	0.07 gal/min
2/11/2025 8:59 AM	45:00	7.87 pH	2.92 °C	370.41 µS/cm	0.06 mg/L	133.8 mV	6.68 ft	0.07 gal/min
2/11/2025 9:04 AM	50:00	7.87 pH	2.73 °C	370.57 µS/cm	0.05 mg/L	136.9 mV	6.68 ft	0.07 gal/min
2/11/2025 9:09 AM	55:00	7.86 pH	2.96 °C	369.23 µS/cm	0.08 mg/L	136.8 mV	6.68 ft	0.07 gal/min
2/11/2025 9:14 AM	01:00:00	7.86 pH	2.86 °C	371.95 µS/cm	0.04 mg/L	134.8 mV	6.68 ft	0.07 gal/min
2/11/2025 9:19 AM	01:05:00	7.85 pH	3.04 °C	369.86 µS/cm	0.04 mg/L	134.2 mV	6.68 ft	0.07 gal/min

Samples

Sample ID:	Description:
GVMW-26a	

Low-Flow Test Report:

Test Date / Time: 2/11/2025 9:42:24 AM
Project: GVMW-26b 1/16/25 (2)
Operator Name: Treed

Location Name: GVMW-26b Latitude: 38.739594408127296 Longitude: -105.11115194163801 Well Diameter: 4 in Total Depth: 25 ft Initial Depth to Water: 6.2 ft	Estimated Total Volume Pumped: 2.5 gal Flow Cell Volume: 130 ml Final Flow Rate: 0.04 gal/min Final Draw Down: 0.1 ft	Instrument Used: Aqua TROLL 600 Serial Number: 1109809
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Test Notes:
Use 5 gal bucket

Weather Conditions:
18 F Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10	+/- 0.33	
2/11/2025 9:42 AM	00:00	6.75 pH	5.26 °C	147.71 µS/cm	6.65 mg/L	131.2 mV	6.20 ft	0.04 gal/min
2/11/2025 9:47 AM	05:00	6.61 pH	5.50 °C	146.27 µS/cm	6.75 mg/L	140.4 mV	6.28 ft	0.04 gal/min
2/11/2025 9:52 AM	10:00	6.54 pH	5.65 °C	145.55 µS/cm	6.87 mg/L	146.1 mV	6.30 ft	0.04 gal/min
2/11/2025 9:57 AM	15:00	6.53 pH	5.61 °C	145.52 µS/cm	6.78 mg/L	148.9 mV	6.30 ft	0.04 gal/min

Samples

Sample ID:	Description:
GVMW-26b	

Low-Flow Test Report:

Test Date / Time: 2/20/2025 9:25:03 AM
Project: Grassy Valley (8)
Operator Name: Jcranford

Location Name: GVMW-27 Latitude: 38.74091075684134 Longitude: -105.12168353183381 Well Diameter: 4 in Total Depth: 74.28 ft Initial Depth to Water: 60.45 ft	Estimated Total Volume Pumped: 2 gal Flow Cell Volume: 130 ml Final Flow Rate: 0.04 gal/min Final Draw Down: 0.09 ft	Instrument Used: Aqua TROLL 600 Serial Number: 1109809
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Test Notes:
Use 5 gallon bucket

Weather Conditions:
28 F Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10	+/- 0.33	
2/20/2025 9:25 AM	00:00	4.59 pH	5.57 °C	4,161.2 µS/cm	1.68 mg/L	288.7 mV	60.45 ft	0.04 gal/min
2/20/2025 9:30 AM	05:00	4.54 pH	6.46 °C	4,337.7 µS/cm	0.35 mg/L	321.5 mV	60.49 ft	0.04 gal/min
2/20/2025 9:35 AM	10:00	4.50 pH	8.04 °C	4,329.5 µS/cm	0.27 mg/L	331.1 mV	60.51 ft	0.04 gal/min
2/20/2025 9:40 AM	15:00	4.50 pH	8.26 °C	4,309.4 µS/cm	0.25 mg/L	335.9 mV	60.53 ft	0.04 gal/min
2/20/2025 9:45 AM	20:00	4.50 pH	8.54 °C	4,277.7 µS/cm	0.24 mg/L	337.7 mV	60.54 ft	0.04 gal/min
2/20/2025 9:50 AM	25:00	4.50 pH	8.81 °C	4,260.7 µS/cm	0.22 mg/L	337.7 mV	60.54 ft	0.04 gal/min
2/20/2025 9:55 AM	30:00	4.50 pH	8.88 °C	4,209.3 µS/cm	0.22 mg/L	339.0 mV	60.54 ft	0.04 gal/min
2/20/2025 10:00 AM	35:00	4.51 pH	8.77 °C	4,145.6 µS/cm	0.24 mg/L	339.8 mV	60.54 ft	0.04 gal/min
2/20/2025 10:00 AM	35:19	4.51 pH	8.75 °C	4,144.3 µS/cm	0.24 mg/L	339.9 mV	60.54 ft	0.04 gal/min

Samples

Sample ID:	Description:
GVMW-27	

Low-Flow Test Report:

Test Date / Time: 2/25/2025 9:16:44 AM
Project: Grassy Valley (5)
Operator Name: J Cranford

Location Name: GVMW-28 Latitude: 38.74231753901533 Longitude: -105.12298204072177 Well Diameter: 4 in Total Depth: 71.56 ft Initial Depth to Water: 36.97 ft	Estimated Total Volume Pumped: 2 gal Flow Cell Volume: 130 ml Final Flow Rate: 0.02 gal/min Final Draw Down: 0.33 ft	Instrument Used: Aqua TROLL 600 Serial Number: 1109809
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Test Notes:
Use 5 gallon bucket

Weather Conditions:
38 F Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10	+/- 0.33	
2/25/2025 9:16 AM	00:00	3.10 pH	6.25 °C	15,378 µS/cm	3.05 mg/L	474.8 mV	36.97 ft	0.02 gal/min
2/25/2025 9:21 AM	05:00	3.12 pH	6.33 °C	15,488 µS/cm	2.61 mg/L	488.1 mV	37.22 ft	0.02 gal/min
2/25/2025 9:26 AM	10:00	3.12 pH	6.26 °C	15,557 µS/cm	2.59 mg/L	489.0 mV	37.25 ft	0.02 gal/min
2/25/2025 9:31 AM	15:00	3.12 pH	5.57 °C	15,625 µS/cm	2.56 mg/L	504.8 mV	37.27 ft	0.02 gal/min
2/25/2025 9:36 AM	20:00	3.11 pH	5.80 °C	15,650 µS/cm	2.51 mg/L	505.4 mV	37.27 ft	0.02 gal/min
2/25/2025 9:41 AM	25:00	3.11 pH	6.41 °C	15,592 µS/cm	2.47 mg/L	508.6 mV	37.28 ft	0.02 gal/min
2/25/2025 9:46 AM	30:00	3.10 pH	6.69 °C	15,567 µS/cm	2.43 mg/L	511.0 mV	37.28 ft	0.02 gal/min
2/25/2025 9:51 AM	35:00	3.09 pH	6.95 °C	15,550 µS/cm	2.41 mg/L	512.6 mV	37.30 ft	0.02 gal/min
2/25/2025 9:56 AM	40:00	3.08 pH	6.90 °C	15,536 µS/cm	2.43 mg/L	514.3 mV	37.30 ft	0.02 gal/min
2/25/2025 10:01 AM	45:00	3.07 pH	6.92 °C	15,534 µS/cm	2.44 mg/L	515.7 mV	37.30 ft	0.02 gal/min

Samples

Sample ID:	Description:
GVMW-28	

GUMU-30 is dry.

Gumw-31 is dry

Show Calculations:

Show Calculations:

Dedicated Pump is frozen

Volume Calculations:	
For 2" Diameter Well (gal): $V(gal) = 0.1632 * h(ft)$	For 4" Diameter Well (gal): $V(gal) = 0.6528 * h(ft)$
Other Diameter Well & Tubing Vol (gal): $V(gal) = 0.1632 * (r(in))^2 * h(ft)$	
Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$	
Well Volume Purge Method: $Three\ Well\ Volumes = 3 * V$	
Conversions: $1ft^3 = 7.48\ gal$ $1gal = 3.785\ L$	Show Calculations:

Volume Calculations:	
For 2" Diameter Well (gal):	$V(gal) = 0.1632 * h(ft)$
For 4" Diameter Well (gal):	$V(gal) = 0.6528 * h(ft)$
Other Diameter Well & Tubing Vol (gal):	$V(gal) = 0.1632 * (r(in))^2 * h(ft)$
Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$	
Well Volume Purge Method: $Three\ Well\ Volumes = 3*V$	
Conversions: $1ft^3 = 7.48\ gal$ $1gal = 3.785\ L$	Show Calculations:

Low-Flow Test Report:

Test Date / Time: 2/18/2025 10:37:43 AM
Project: Grassy Valley (3)
Operator Name: J Cranford

Location Name: GVMW-37A Latitude: 38.740167270487156 Longitude: -105.11801915194704 Well Diameter: 4 in Total Depth: 201.2 ft Initial Depth to Water: 42.32 ft	Estimated Total Volume Pumped: 3 gal Flow Cell Volume: 130 ml Final Flow Rate: 0.07 gal/min Final Draw Down: 0.38 ft	Instrument Used: Aqua TROLL 600 Serial Number: 1109809
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Test Notes:

Weather Conditions:
24 F Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10	+/- 0.33	
2/18/2025 10:37 AM	00:00	8.77 pH	5.02 °C	475.36 µS/cm	0.57 mg/L	141.2 mV	42.32 ft	0.07 gal/min
2/18/2025 10:42 AM	05:00	8.82 pH	5.67 °C	472.98 µS/cm	0.26 mg/L	134.1 mV	42.68 ft	0.07 gal/min
2/18/2025 10:47 AM	10:00	8.85 pH	5.25 °C	471.94 µS/cm	0.22 mg/L	134.9 mV	42.69 ft	0.07 gal/min
2/18/2025 10:52 AM	15:00	8.87 pH	5.35 °C	467.78 µS/cm	0.20 mg/L	135.2 mV	42.70 ft	0.07 gal/min
2/18/2025 10:57 AM	20:00	8.88 pH	5.41 °C	466.61 µS/cm	0.18 mg/L	135.2 mV	42.70 ft	0.07 gal/min

Samples

Sample ID:	Description:
GVMW-37A	

Low-Flow Test Report:

Test Date / Time: 2/18/2025 8:56:22 AM
Project: Grassy Valley (2)
Operator Name: J Cranford

Location Name: GVMW-37B Latitude: 38.74016101482015 Longitude: -105.11806058947059 Well Diameter: 4 in Total Depth: 74.89 ft	Estimated Total Volume Pumped: 4 gal Flow Cell Volume: 130 ml Final Flow Rate: 0.09 gal/min Final Draw Down: 41.41 ft	Instrument Used: Aqua TROLL 600 Serial Number: 1109809
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Test Notes:
Temperature would not stabilize.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10	+/- 0.33	
2/18/2025 8:56 AM	00:00	7.26 pH	1.99 °C	385.51 µS/cm	5.48 mg/L	236.6 mV	41.39 ft	0.09 gal/min
2/18/2025 9:01 AM	05:00	7.59 pH	4.93 °C	403.71 µS/cm	2.98 mg/L	155.4 mV	41.40 ft	0.09 gal/min
2/18/2025 9:06 AM	10:00	7.63 pH	5.24 °C	393.69 µS/cm	2.78 mg/L	133.8 mV	41.40 ft	0.09 gal/min
2/18/2025 9:11 AM	15:00	7.68 pH	5.55 °C	393.98 µS/cm	2.61 mg/L	123.6 mV	41.40 ft	0.09 gal/min
2/18/2025 9:16 AM	20:00	7.75 pH	5.53 °C	390.43 µS/cm	2.56 mg/L	113.4 mV	41.40 ft	0.09 gal/min
2/18/2025 9:21 AM	25:00	7.78 pH	5.29 °C	385.87 µS/cm	2.48 mg/L	99.1 mV	41.40 ft	0.09 gal/min
2/18/2025 9:26 AM	30:00	7.79 pH	5.33 °C	388.59 µS/cm	2.44 mg/L	79.2 mV	41.41 ft	0.09 gal/min
2/18/2025 9:31 AM	35:00	7.79 pH	4.59 °C	380.82 µS/cm	2.41 mg/L	64.4 mV	41.41 ft	0.09 gal/min
2/18/2025 9:36 AM	40:00	7.78 pH	4.12 °C	380.08 µS/cm	2.38 mg/L	58.5 mV	41.41 ft	0.09 gal/min
2/18/2025 9:41 AM	45:00	7.77 pH	4.02 °C	383.13 µS/cm	2.33 mg/L	53.4 mV	41.41 ft	0.09 gal/min
2/18/2025 9:46 AM	50:00	7.75 pH	3.71 °C	380.78 µS/cm	2.27 mg/L	48.8 mV	41.41 ft	0.09 gal/min
2/18/2025 9:51 AM	55:00	7.74 pH	3.37 °C	381.56 µS/cm	2.26 mg/L	46.8 mV	41.41 ft	0.09 gal/min
2/18/2025 9:56 AM	01:00:00	7.73 pH	3.24 °C	380.10 µS/cm	2.23 mg/L	46.8 mV	41.41 ft	0.09 gal/min
2/18/2025 10:01 AM	01:05:00	7.71 pH	3.31 °C	388.38 µS/cm	2.25 mg/L	47.4 mV	41.41 ft	0.09 gal/min
2/18/2025 10:06 AM	01:10:00	7.71 pH	2.83 °C	388.96 µS/cm	2.23 mg/L	48.7 mV	41.41 ft	0.09 gal/min
2/18/2025 10:11 AM	01:15:00	7.69 pH	3.01 °C	389.87 µS/cm	2.23 mg/L	49.1 mV	41.41 ft	0.09 gal/min
2/18/2025 10:16 AM	01:20:00	7.68 pH	3.25 °C	394.13 µS/cm	2.19 mg/L	52.0 mV	41.41 ft	0.09 gal/min

Samples

Sample ID:	Description:
GVMW-37B	

Low-Flow Test Report:

Test Date / Time: 2/11/2025 9:42:24 AM
Project: GVMW-26b 1/16/25 (2)
Operator Name: Treed

Location Name: GVMW-26b Latitude: 38.739594408127296 Longitude: -105.11115194163801 Well Diameter: 4 in Total Depth: 25 ft Initial Depth to Water: 6.2 ft	Estimated Total Volume Pumped: 2.5 gal Flow Cell Volume: 130 ml Final Flow Rate: 0.04 gal/min Final Draw Down: 0.1 ft	Instrument Used: Aqua TROLL 600 Serial Number: 1109809
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Test Notes:
Use 5 gal bucket

Weather Conditions:
18 F Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10	+/- 0.33	
2/11/2025 9:42 AM	00:00	6.75 pH	5.26 °C	147.71 µS/cm	6.65 mg/L	131.2 mV	6.20 ft	0.04 gal/min
2/11/2025 9:47 AM	05:00	6.61 pH	5.50 °C	146.27 µS/cm	6.75 mg/L	140.4 mV	6.28 ft	0.04 gal/min
2/11/2025 9:52 AM	10:00	6.54 pH	5.65 °C	145.55 µS/cm	6.87 mg/L	146.1 mV	6.30 ft	0.04 gal/min
2/11/2025 9:57 AM	15:00	6.53 pH	5.61 °C	145.52 µS/cm	6.78 mg/L	148.9 mV	6.30 ft	0.04 gal/min

Samples

Sample ID:	Description:
GVMW-26b	

Low-Flow Test Report:

Test Date / Time: 2/20/2025 9:25:03 AM
Project: Grassy Valley (8)
Operator Name: Jcranford

Location Name: GVMW-27 Latitude: 38.74091075684134 Longitude: -105.12168353183381 Well Diameter: 4 in Total Depth: 74.28 ft Initial Depth to Water: 60.45 ft	Estimated Total Volume Pumped: 2 gal Flow Cell Volume: 130 ml Final Flow Rate: 0.04 gal/min Final Draw Down: 0.09 ft	Instrument Used: Aqua TROLL 600 Serial Number: 1109809
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Test Notes:
Use 5 gallon bucket

Weather Conditions:
28 F Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10	+/- 0.33	
2/20/2025 9:25 AM	00:00	4.59 pH	5.57 °C	4,161.2 µS/cm	1.68 mg/L	288.7 mV	60.45 ft	0.04 gal/min
2/20/2025 9:30 AM	05:00	4.54 pH	6.46 °C	4,337.7 µS/cm	0.35 mg/L	321.5 mV	60.49 ft	0.04 gal/min
2/20/2025 9:35 AM	10:00	4.50 pH	8.04 °C	4,329.5 µS/cm	0.27 mg/L	331.1 mV	60.51 ft	0.04 gal/min
2/20/2025 9:40 AM	15:00	4.50 pH	8.26 °C	4,309.4 µS/cm	0.25 mg/L	335.9 mV	60.53 ft	0.04 gal/min
2/20/2025 9:45 AM	20:00	4.50 pH	8.54 °C	4,277.7 µS/cm	0.24 mg/L	337.7 mV	60.54 ft	0.04 gal/min
2/20/2025 9:50 AM	25:00	4.50 pH	8.81 °C	4,260.7 µS/cm	0.22 mg/L	337.7 mV	60.54 ft	0.04 gal/min
2/20/2025 9:55 AM	30:00	4.50 pH	8.88 °C	4,209.3 µS/cm	0.22 mg/L	339.0 mV	60.54 ft	0.04 gal/min
2/20/2025 10:00 AM	35:00	4.51 pH	8.77 °C	4,145.6 µS/cm	0.24 mg/L	339.8 mV	60.54 ft	0.04 gal/min
2/20/2025 10:00 AM	35:19	4.51 pH	8.75 °C	4,144.3 µS/cm	0.24 mg/L	339.9 mV	60.54 ft	0.04 gal/min

Samples

Sample ID:	Description:
GVMW-27	

OSABH-12 is Dry

OSABH-14 is dry

Volume Calculations:	
For 2" Diameter Well (gal): $V(gal) = 0.1632 * h(ft)$	For 4" Diameter Well (gal): $V(gal) = 0.6528 * h(ft)$
Other Diameter Well & Tubing Vol (gal): $V(gal) = 0.1632 * (r(in))^2 * h(ft)$	
Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$	
Well Volume Purge Method: $Three\ Well\ Volumes = 3 * V$	
Conversions: $1ft^3 = 7.48\ gal$ $1gal = 3.785\ L$	Show Calculations: OSABH-16 was insufficient to Pump.

Low-Flow Test Report:

Test Date / Time: 2/25/2025 11:24:28 AM
Project: Grassy Valley (7)
Operator Name: J Cranford

Location Name: OSABH-17 Latitude: 38.748308875924245 Longitude: -105.1328407404147 Well Diameter: 2 in Total Depth: 30.35 ft Initial Depth to Water: 15.65 ft	Estimated Total Volume Pumped: 2.1 gal Flow Cell Volume: 130 ml Final Flow Rate: 0.07 gal/min Final Draw Down: 0.13 ft	Instrument Used: Aqua TROLL 600 Serial Number: 1109809
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Test Notes:
Use 5 gallon bucket
Water is turbid
No oil or gas visible
Equipment decontaminated- triple rinse Alckonx

Weather Conditions:
41 F Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10	+/- 0.33	
2/25/2025 11:24 AM	00:00	2.93 pH	7.43 °C	33,054 µS/cm	3.32 mg/L	501.7 mV	15.65 ft	0.07 gal/min
2/25/2025 11:29 AM	05:00	2.91 pH	7.40 °C	33,880 µS/cm	1.19 mg/L	536.2 mV	15.73 ft	0.07 gal/min
2/25/2025 11:34 AM	10:00	2.89 pH	7.68 °C	33,918 µS/cm	1.13 mg/L	541.1 mV	15.74 ft	0.07 gal/min
2/25/2025 11:39 AM	15:00	2.88 pH	7.97 °C	33,890 µS/cm	1.11 mg/L	542.3 mV	15.74 ft	0.07 gal/min
2/25/2025 11:44 AM	20:00	2.88 pH	8.40 °C	33,573 µS/cm	1.11 mg/L	543.6 mV	15.78 ft	0.07 gal/min
2/25/2025 11:49 AM	25:00	2.88 pH	8.40 °C	33,558 µS/cm	1.07 mg/L	545.9 mV	15.78 ft	0.07 gal/min
2/25/2025 11:54 AM	30:00	2.87 pH	8.43 °C	33,535 µS/cm	1.05 mg/L	547.4 mV	15.78 ft	0.07 gal/min

Samples

Sample ID:	Description:
OSABH-17	

OSABH-18 is dry.

**Newmont Mining Co
Cripple Creek & Victor Gold Mining Co
Surface Water Sampling Log**

Location: RB-0226

Date: 2/26/25

Technician: J. Crawford

Quarter: 1

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	Chlorine
2:55	4.98	84.36	12.90	240.6	_____

Sample Method: Grab

Oil/Gas visible ☒ Y ☐ N

Turbid ☒ Y ☐ N

Clear ☒ Y ☐ N

Weather: 32°F, Sunny

Signature: _____

Comments / Notes:

**Newmont Mining Co
Cripple Creek & Victor Gold Mining Co
Surface Water Sampling Log**

Location: Seep-1

Date: 2/18/25

Technician: J. Cranford

Quarter: 1

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
12:58	—	Dry/Frozen	—	—

Sample Method:

Oil/Gas visible ~~[Y+N]~~

Turbid ~~[Y+N]~~

Clear ~~[Y+N]~~

Weather: 16° F, Sunny

Signature: 

Comments / Notes:

Seep-1 is Dry/Frozen.

** Field Parameters (pH, Conductivity, Temperature, and ORP) must be analyzed within 15 minutes of sample collection.*

**Newmont Mining Co
Cripple Creek & Victor Gold Mining Co
Surface Water Sampling Log**

Location: Seep-2

Date: 2/18/25

Technician: J. Cranford

Quarter: 1

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
12:55	<u> </u>	<u>Dry/Frozen</u>	<u> </u>	<u> </u>

Sample Method:

Oil/Gas visible [Y/N]

Turbid [Y/N]

Clear [Y/N]

Weather: 16° F, Sunny

Signature: 

Comments / Notes:

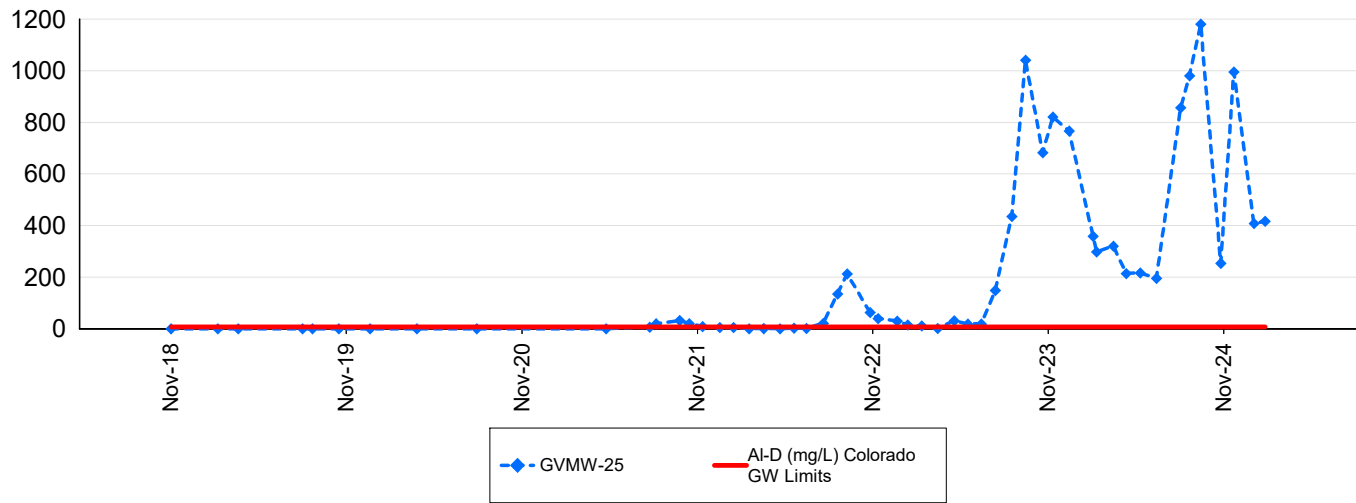
Seep-2 is Dry/Frozen

** Field Parameters (pH, Conductivity, Temperature, and ORP) must be analyzed within 15 minutes of sample collection.*

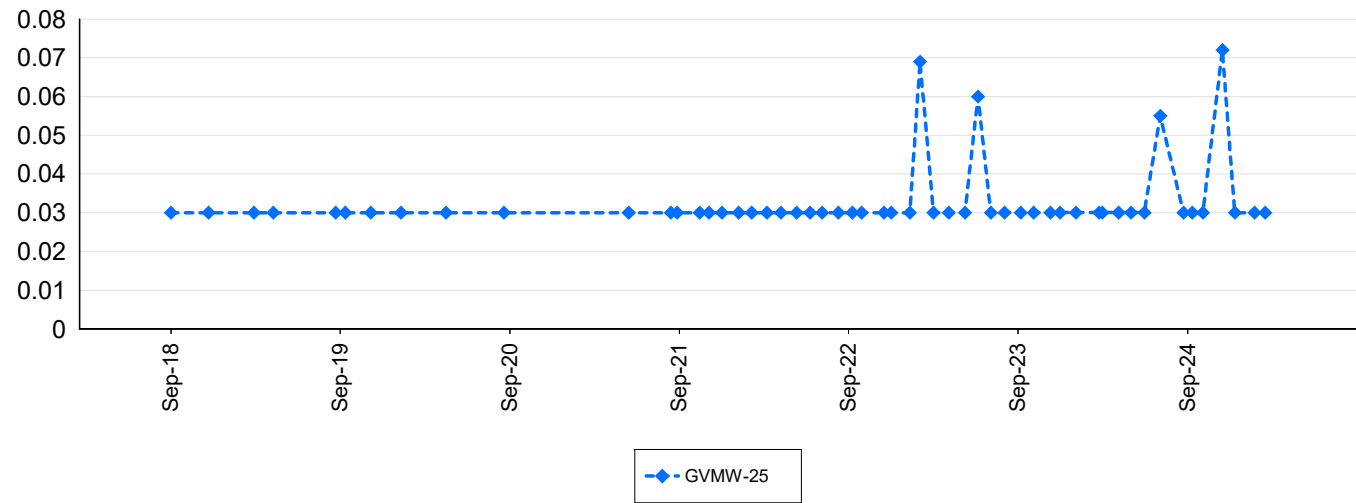
Attachment 3

GVMW-25 Historical Graphs

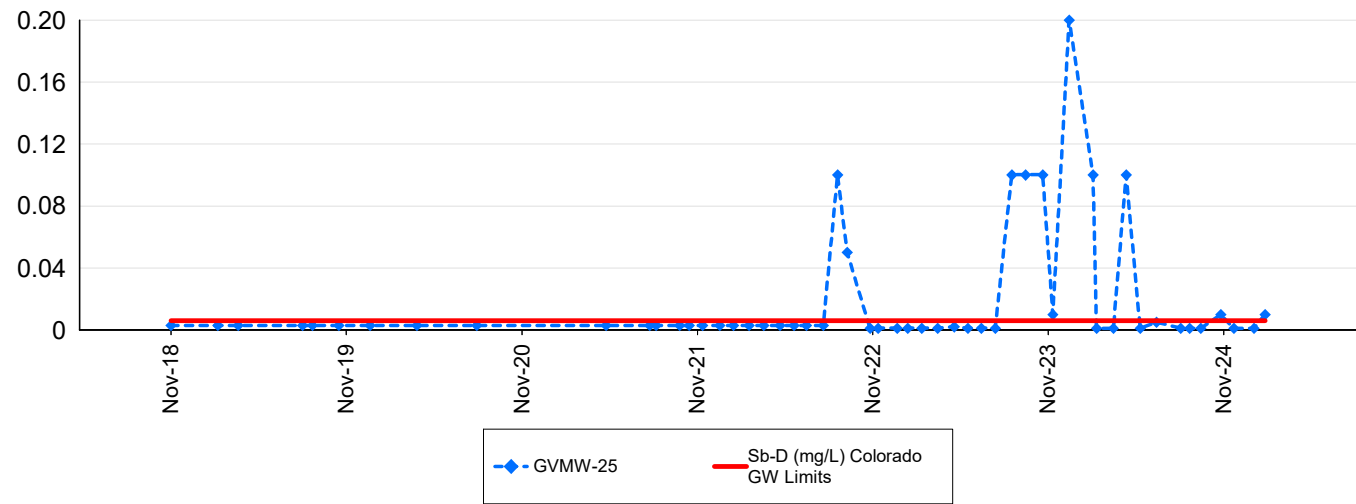
Grassy Valley: Aluminium - Dissolved (mg/L)



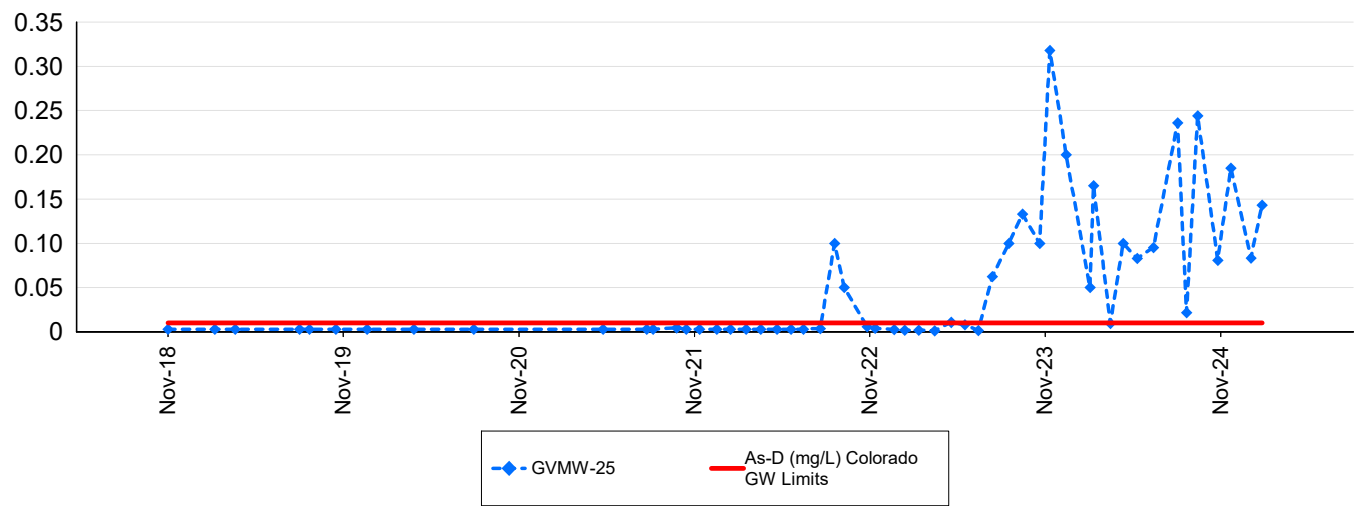
Grassy Valley: Ammonia (mg/L)



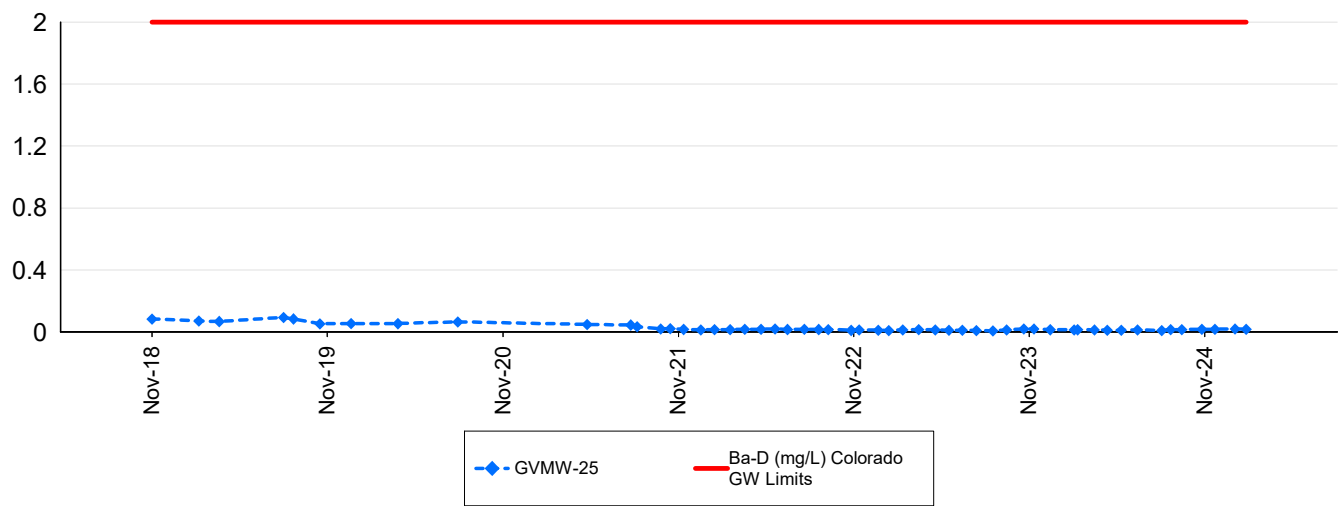
Grassy Valley: Antimony - Dissolved (mg/L)



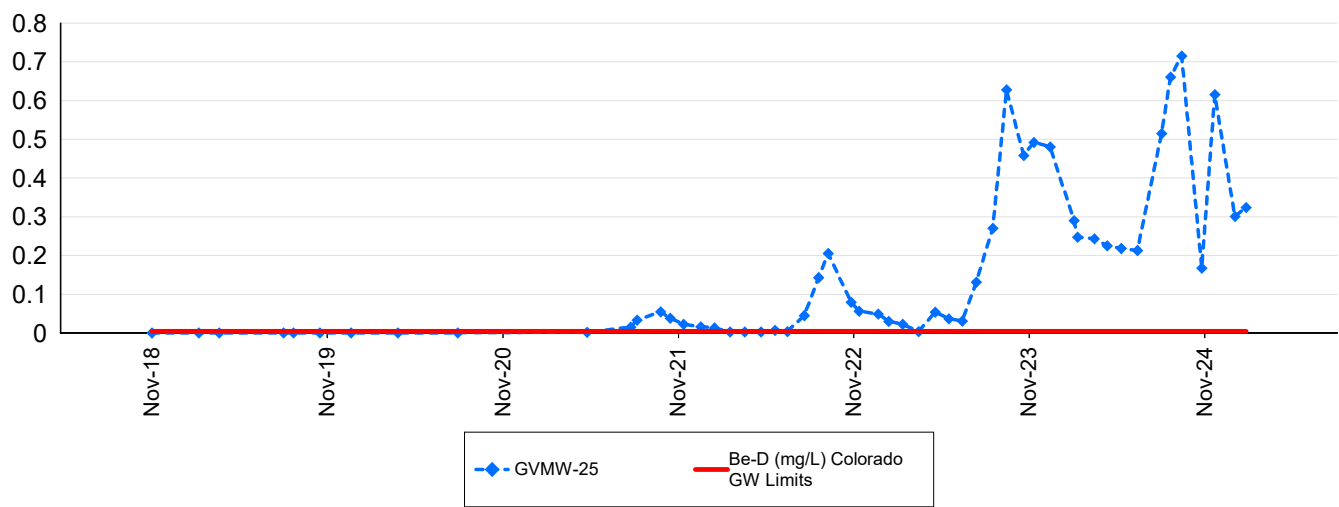
Grassy Valley: Arsenic - Dissolved (mg/L)



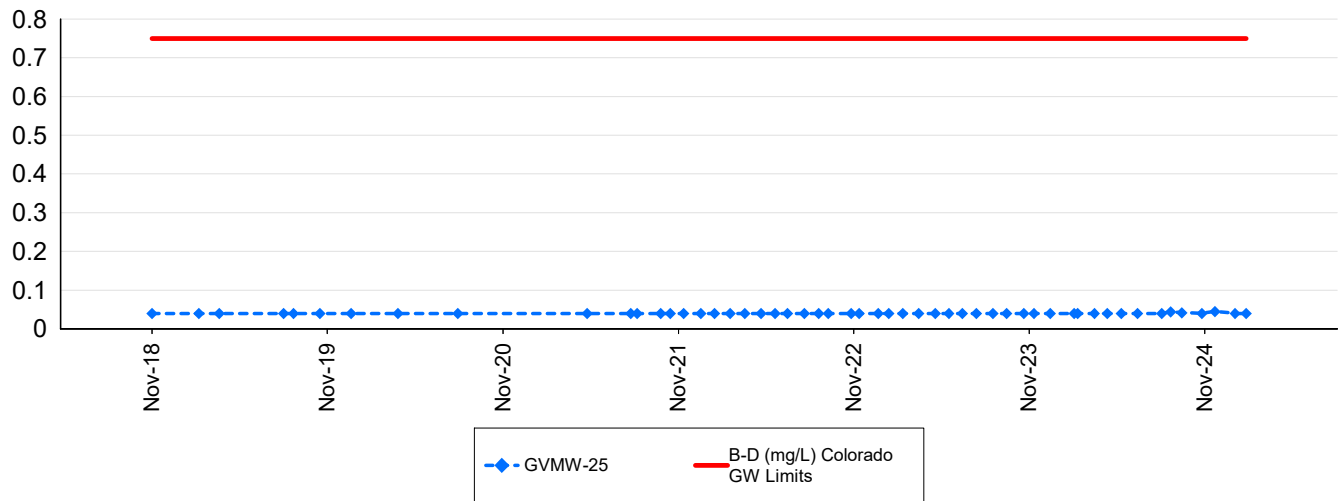
Grassy Valley: Barium - Dissolved (mg/L)



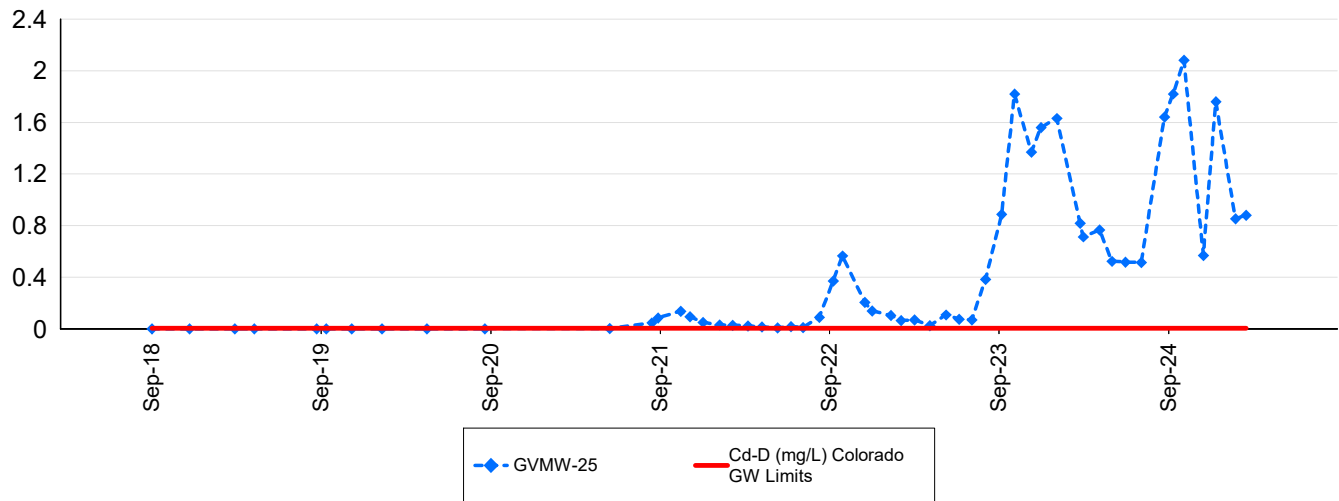
Grassy Valley: Beryllium - Dissolved (mg/L)



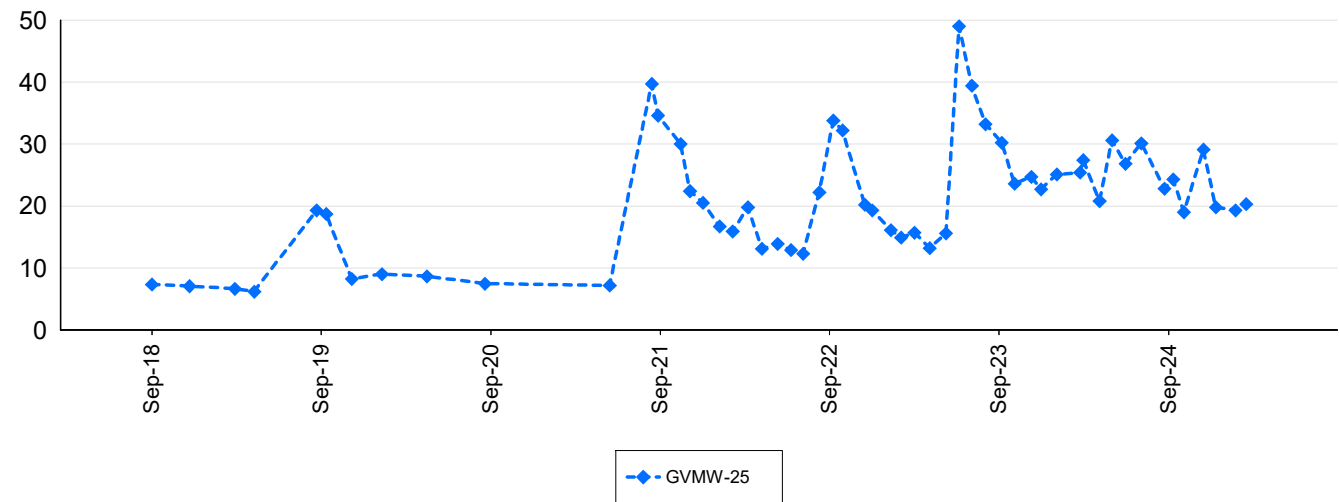
Grassy Valley: Boron - Dissolved (mg/L)



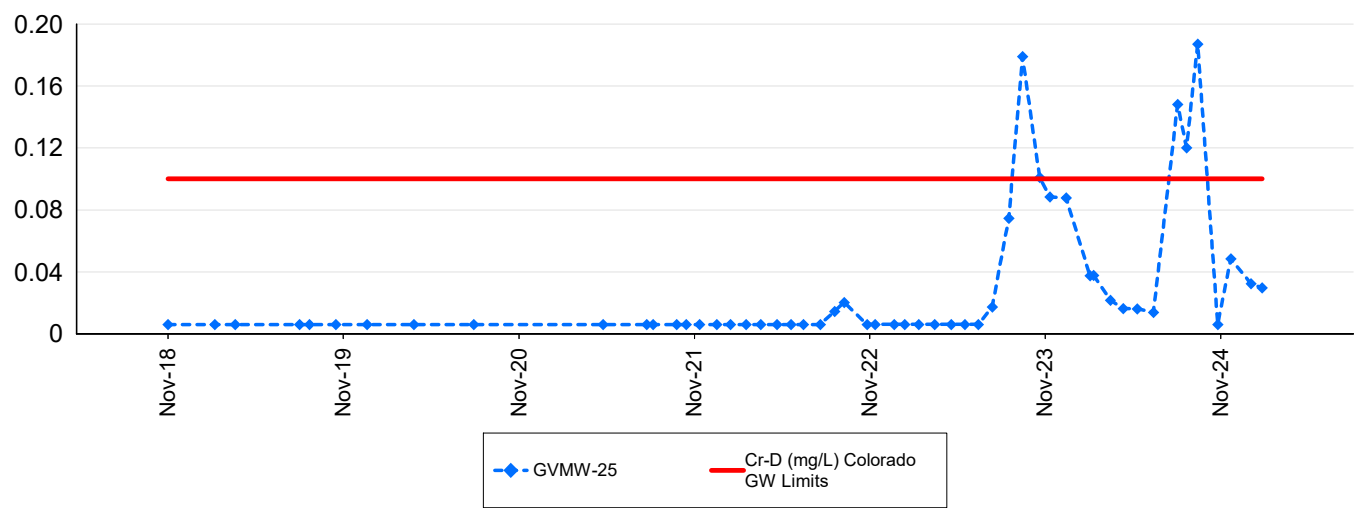
Grassy Valley: Cadmium - Dissolved (mg/L)



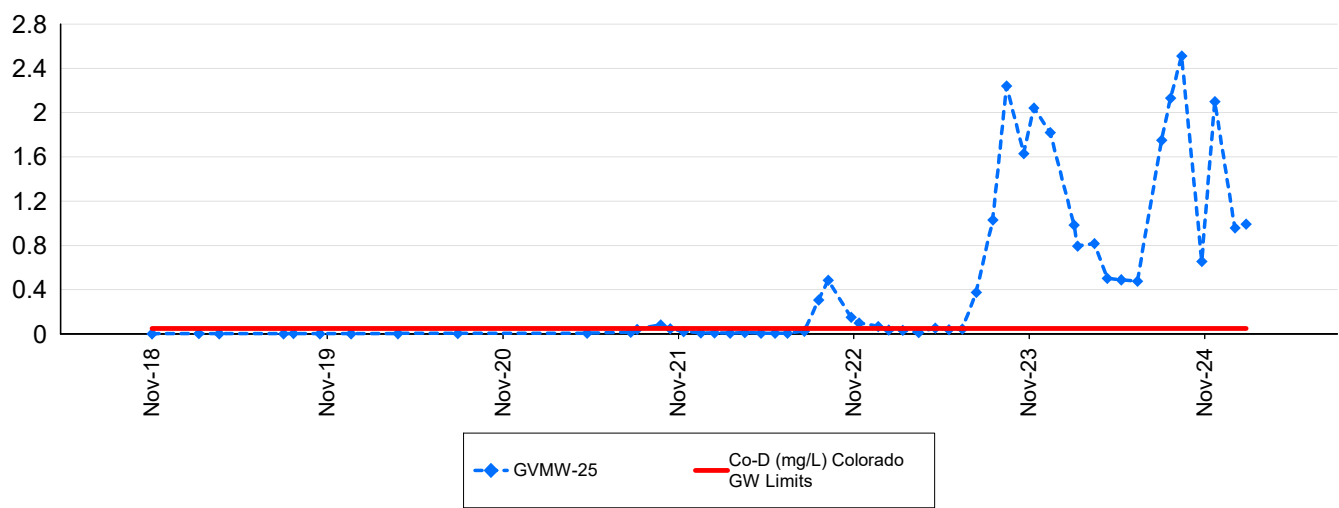
Grassy Valley: Chloride - Total (mg/L)



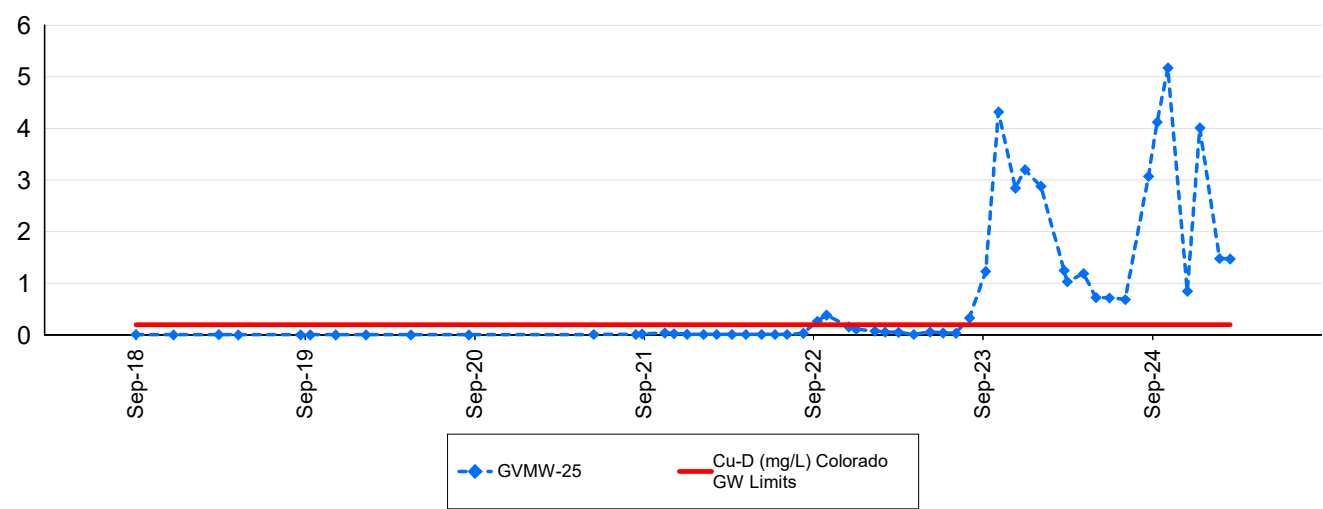
Grassy Valley: Chromium - Dissolved (mg/L)



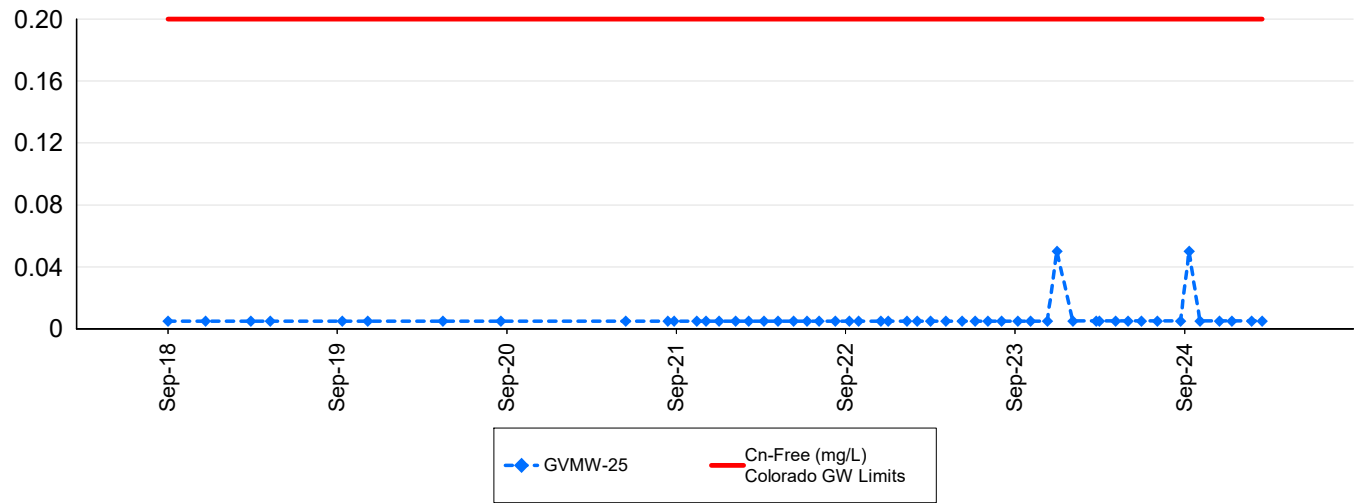
Grassy Valley: Cobalt - Dissolved (mg/L)



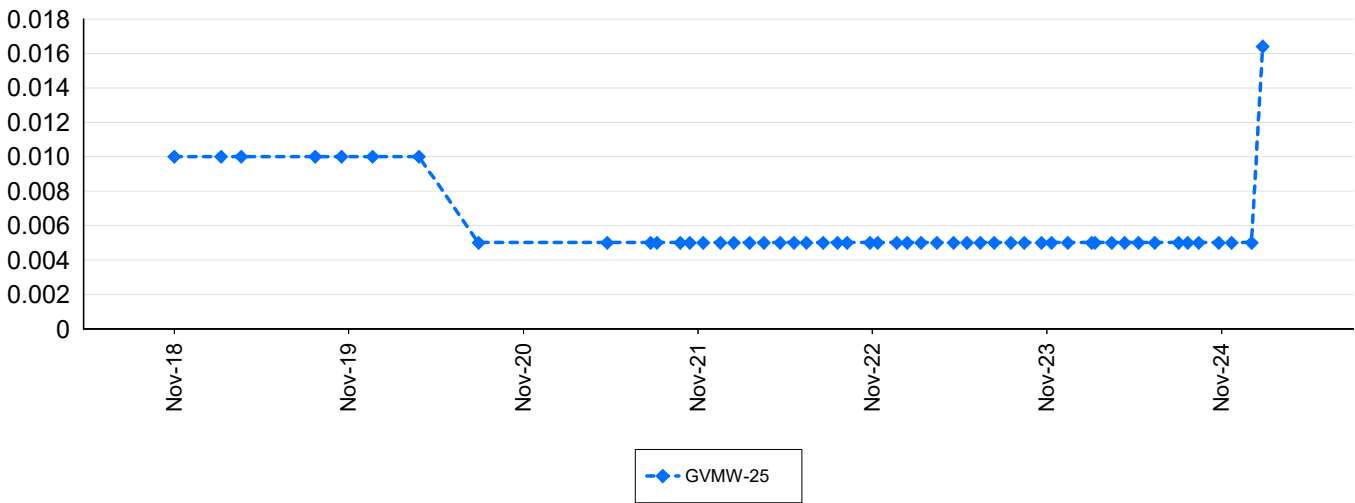
Grassy Valley: Copper - Dissolved (mg/L)



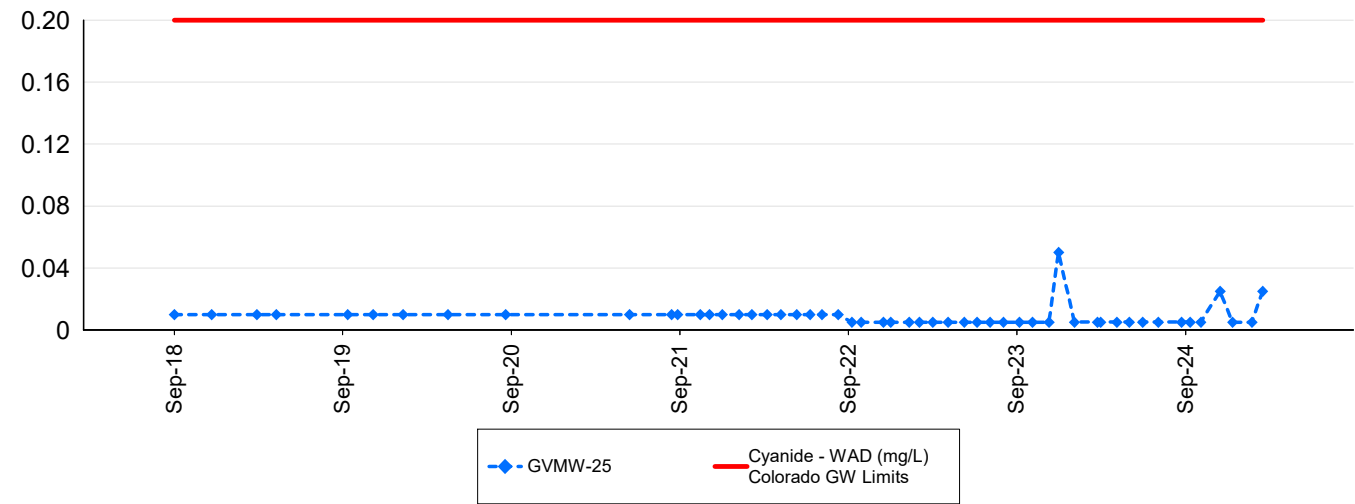
Grassy Valley: Cyanide - Free (mg/L)



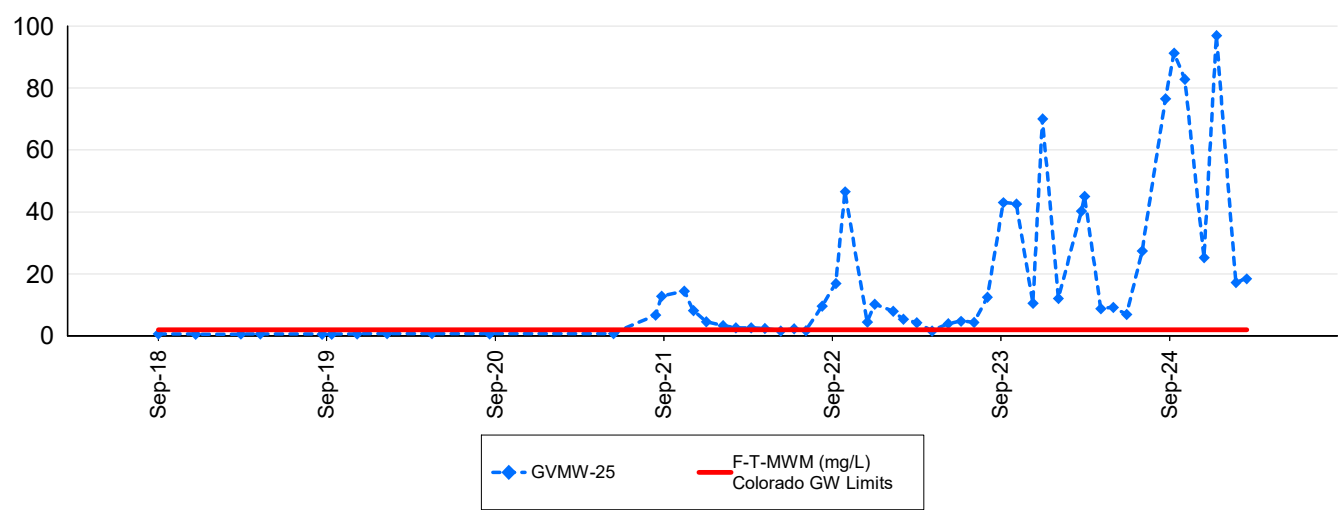
Grassy Valley: Cyanide - Total (mg/L)



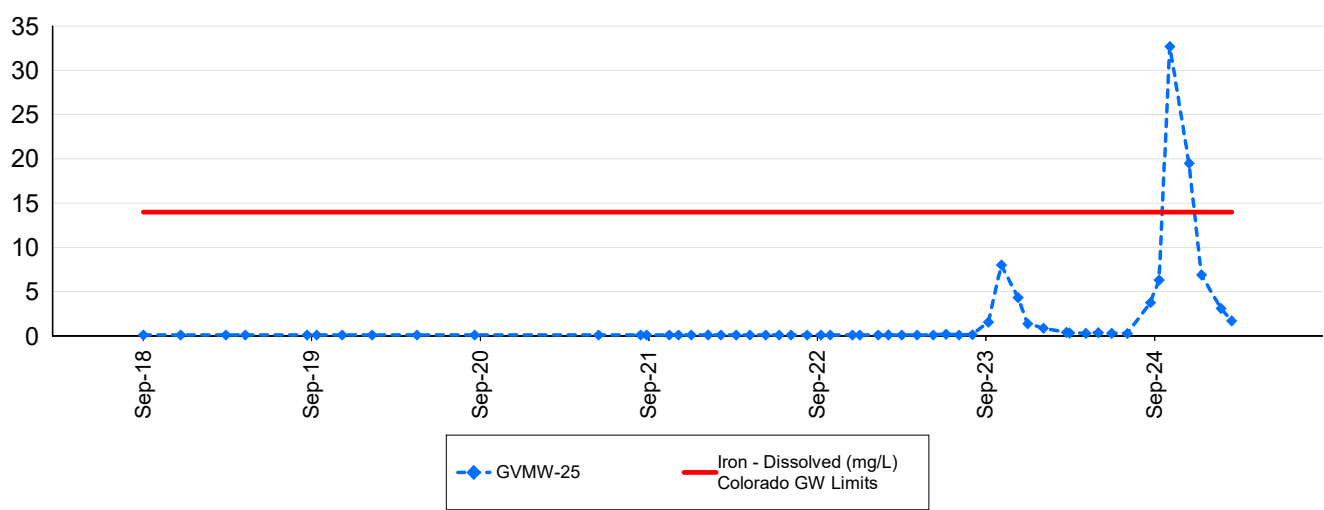
Grassy Valley: Cyanide - WAD (mg/L)



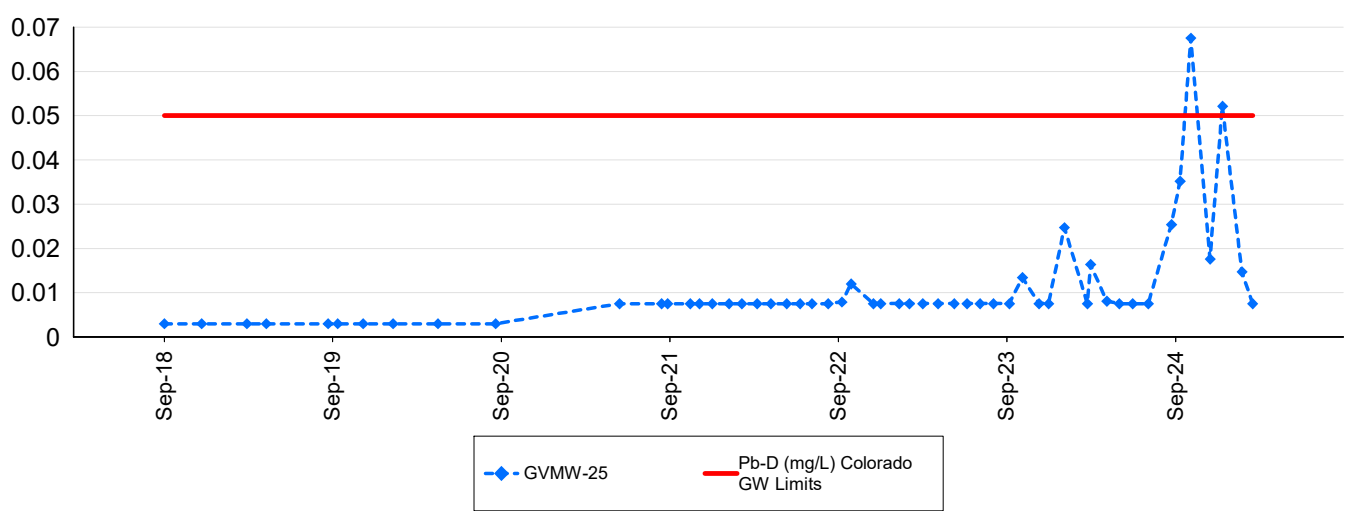
Grassy Valley: Fluoride - Total F (mg/L)



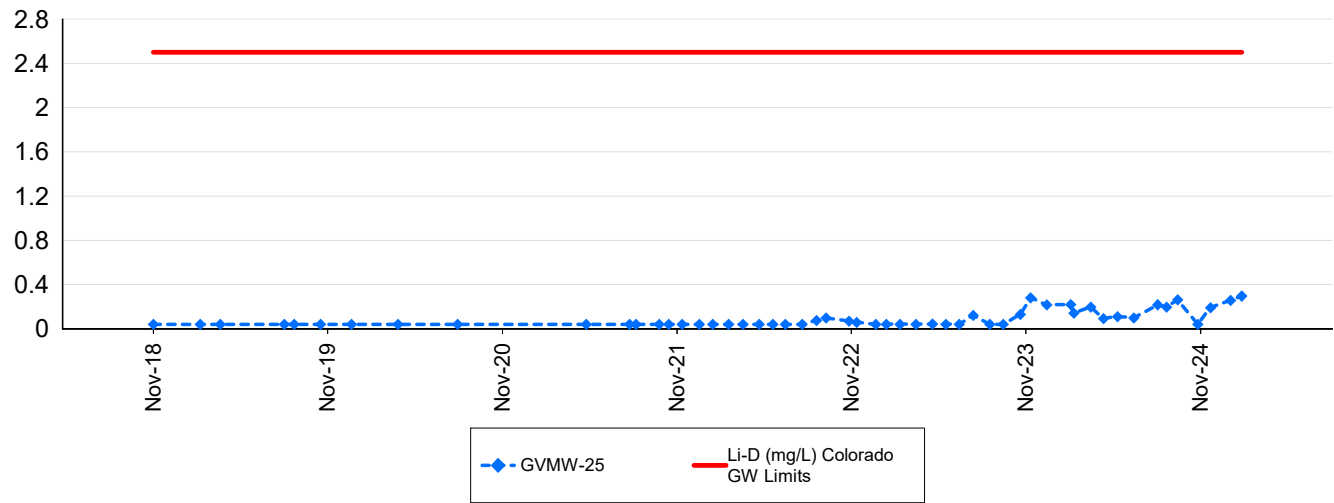
Grassy Valley: Iron - Dissolved (mg/L)



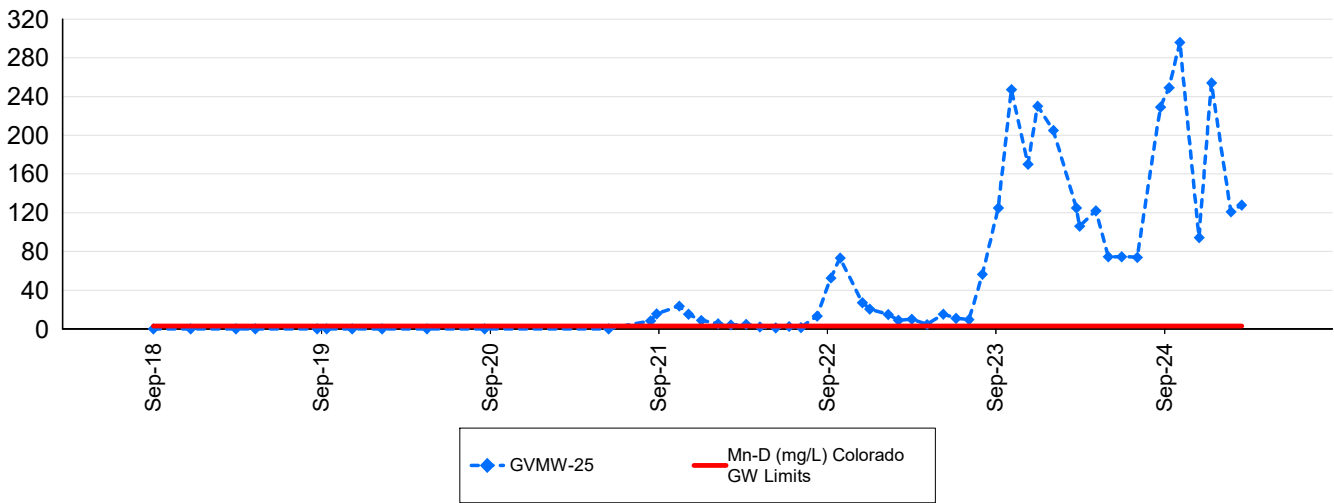
Grassy Valley: Lead - Dissolved (mg/L)



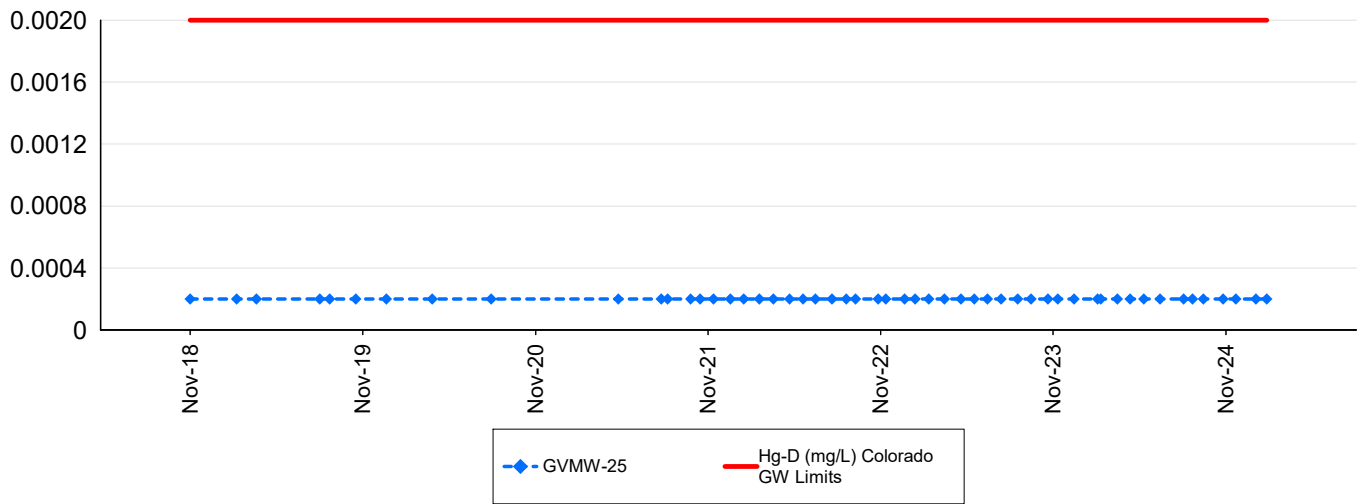
Grassy Valley: Lithium - Dissolved (mg/L)



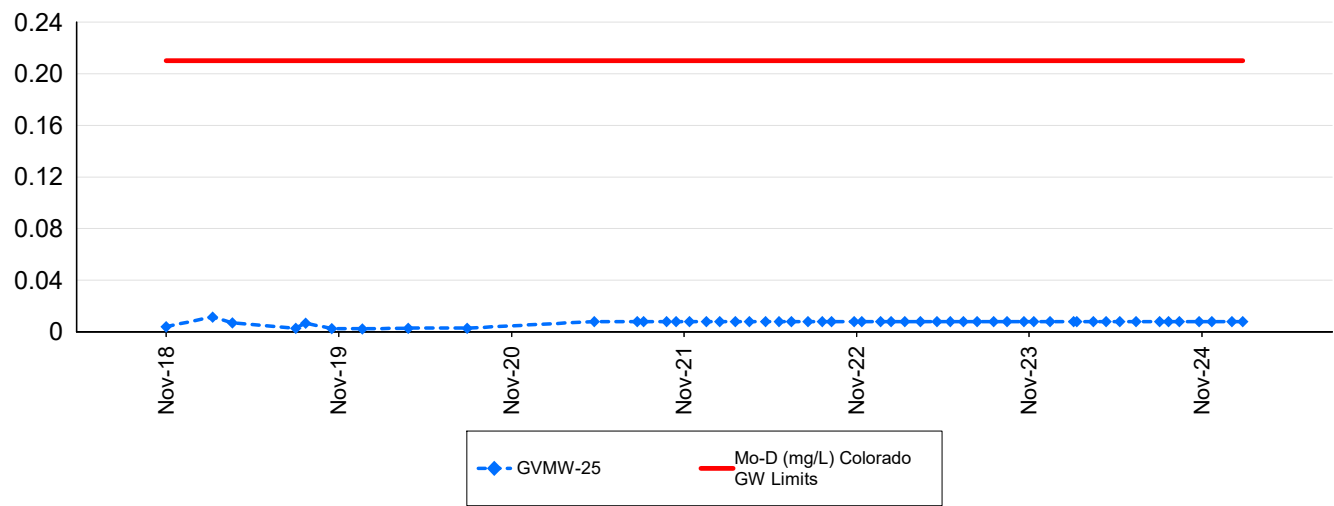
Grassy Valley: Manganese - Dissolved (mg/L)



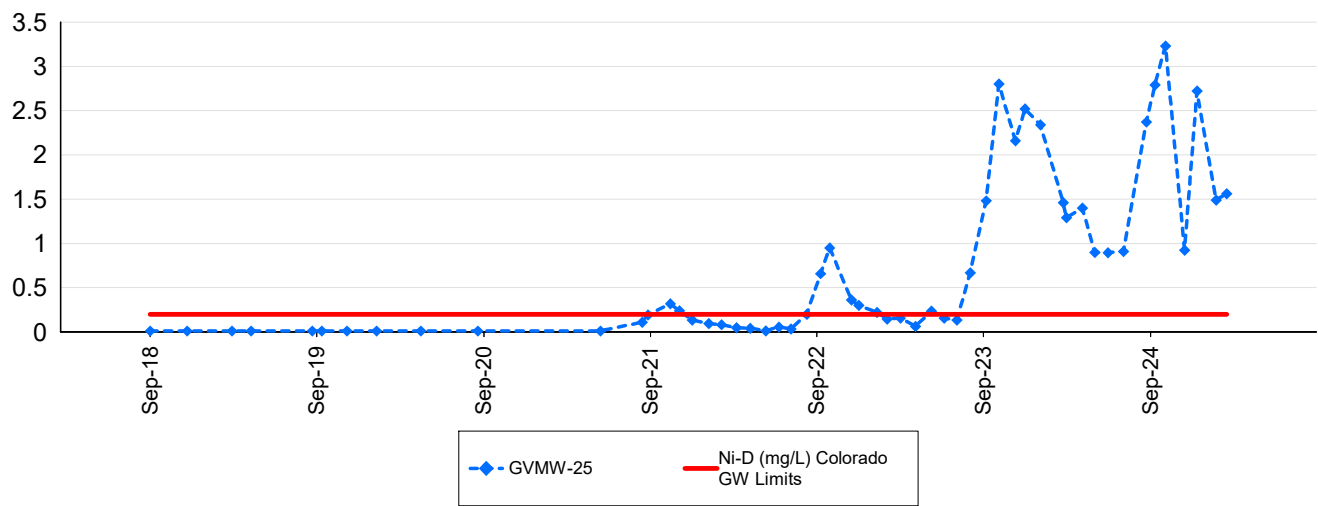
Grassy Valley: Mercury - Dissolved (mg/L)



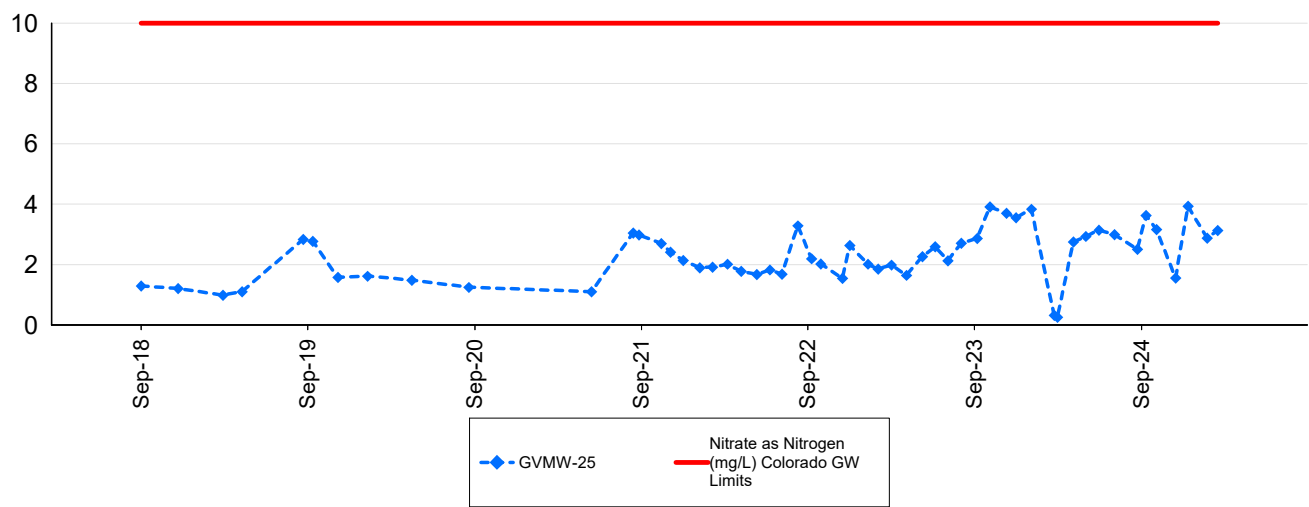
Grassy Valley: Molybdenum - Dissolved (mg/L)



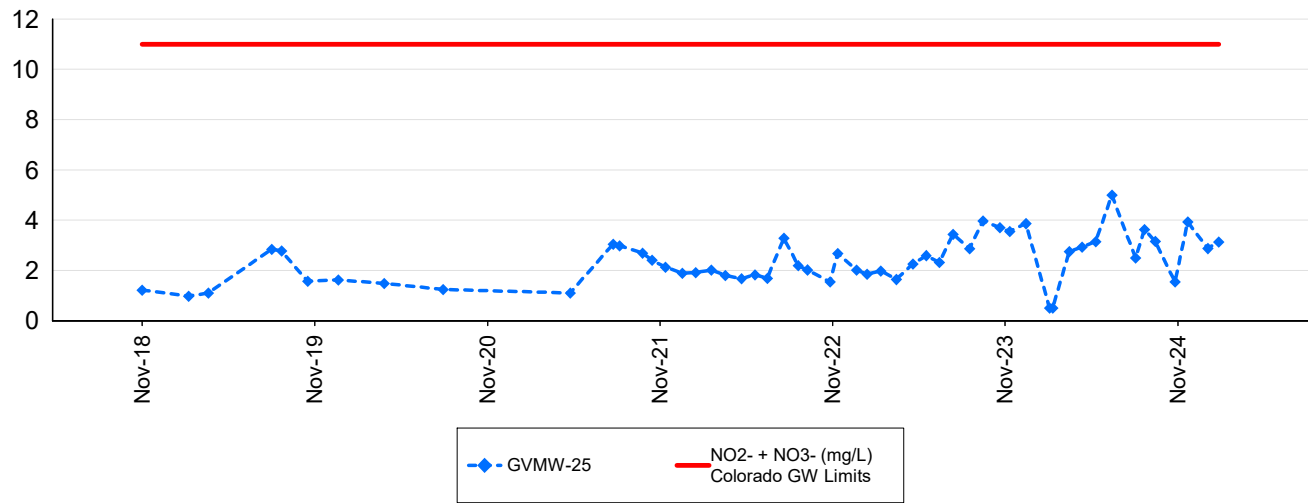
Grassy Valley: Nickel - Dissolved (mg/L)



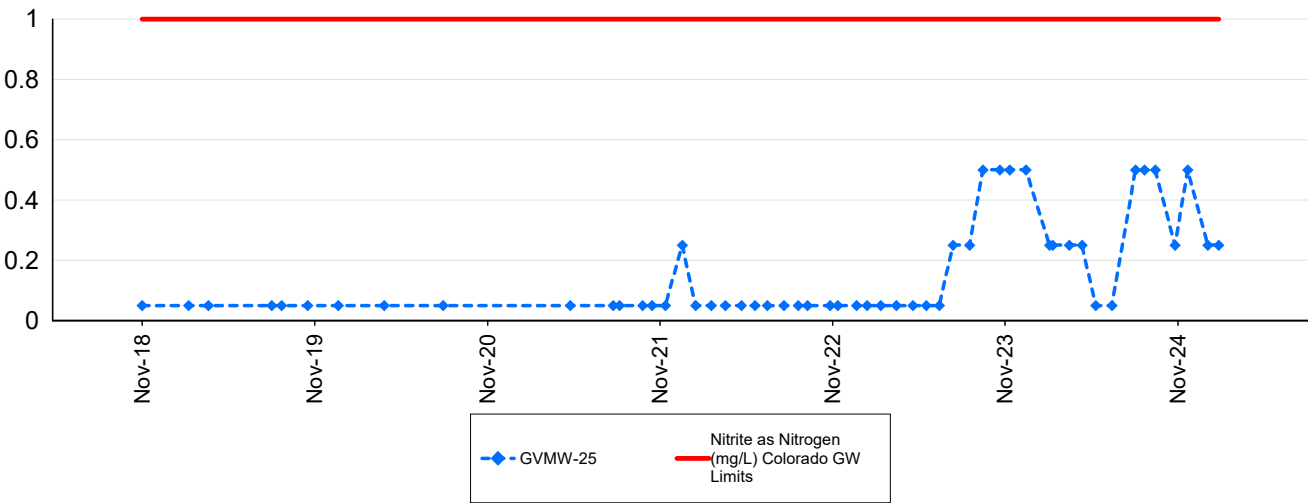
Grassy Valley: Nitrate as Nitrogen (mg/L)



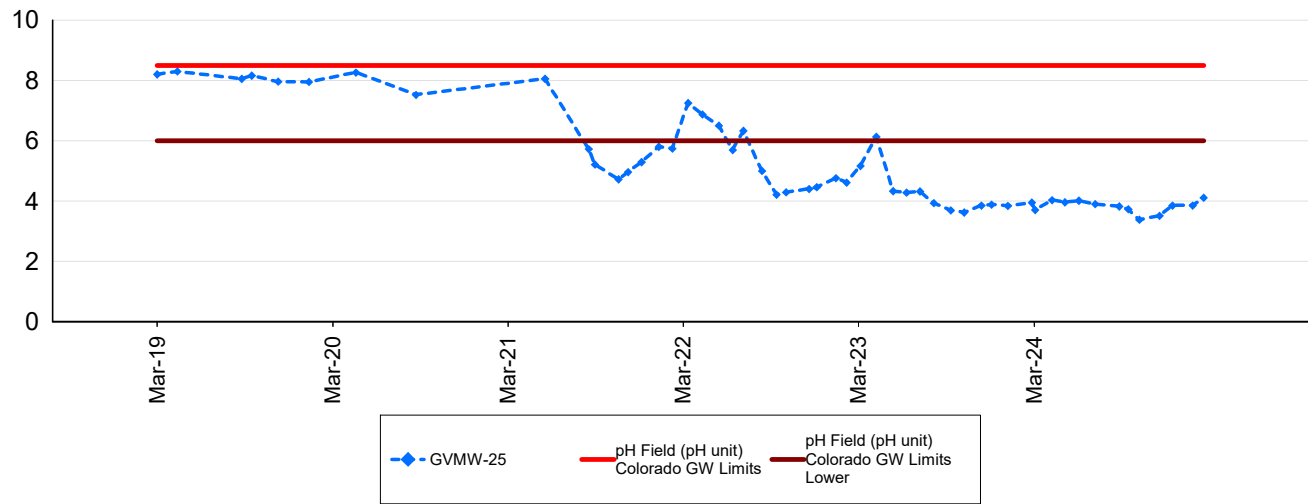
Grassy Valley: Nitrite + Nitrate as Nitrogen (mg/L)



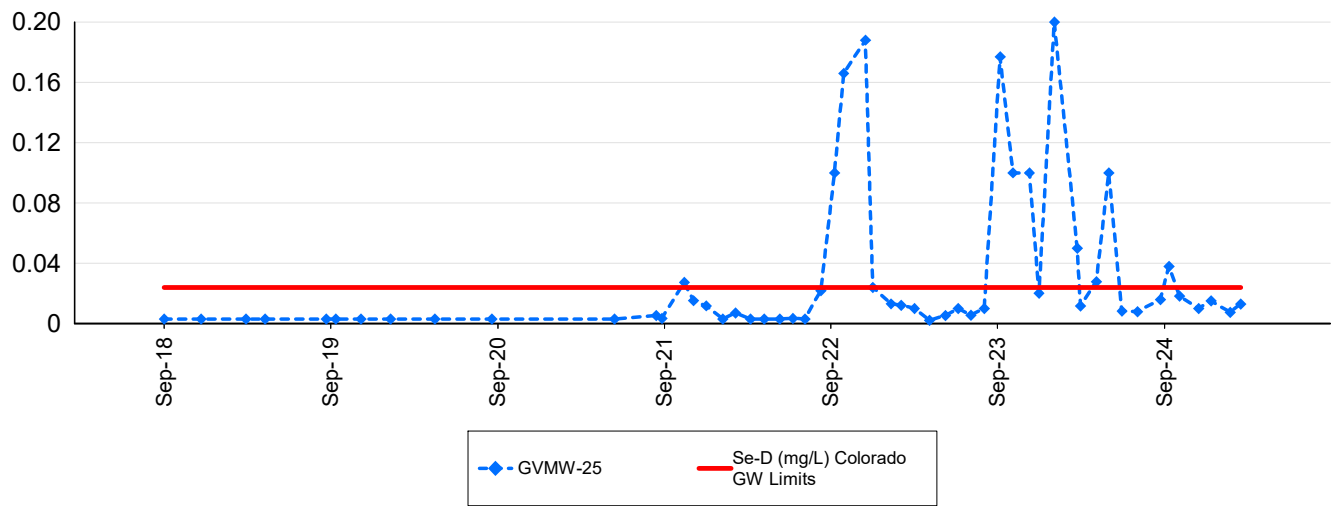
Grassy Valley: Nitrite as Nitrogen (mg/L)



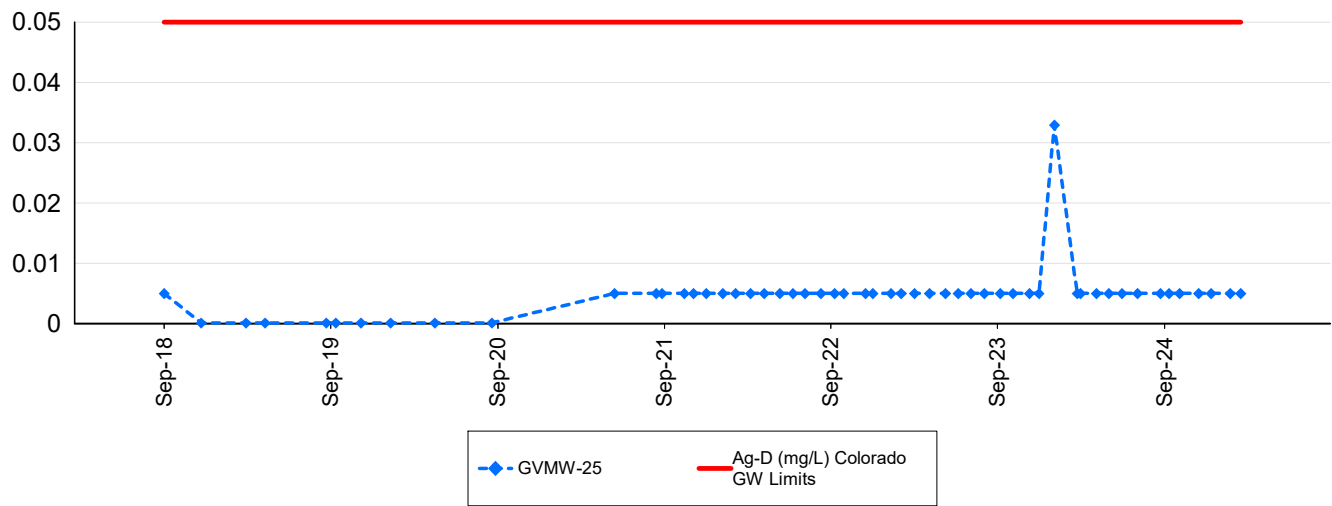
Grassy Valley: pH Field (pH unit)



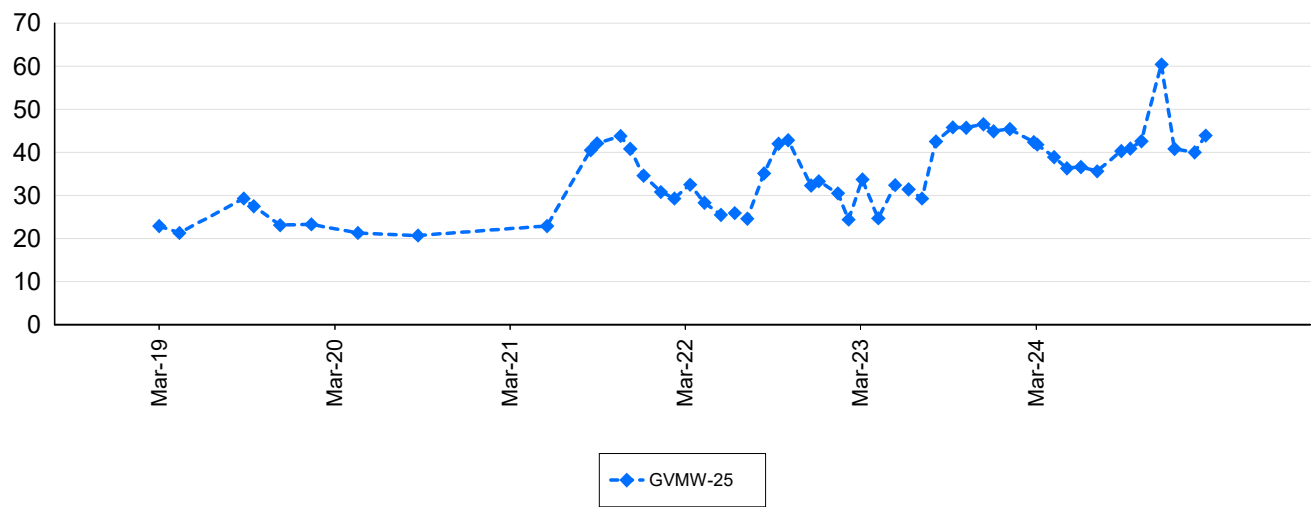
Grassy Valley: Selenium - Dissolved (mg/L)



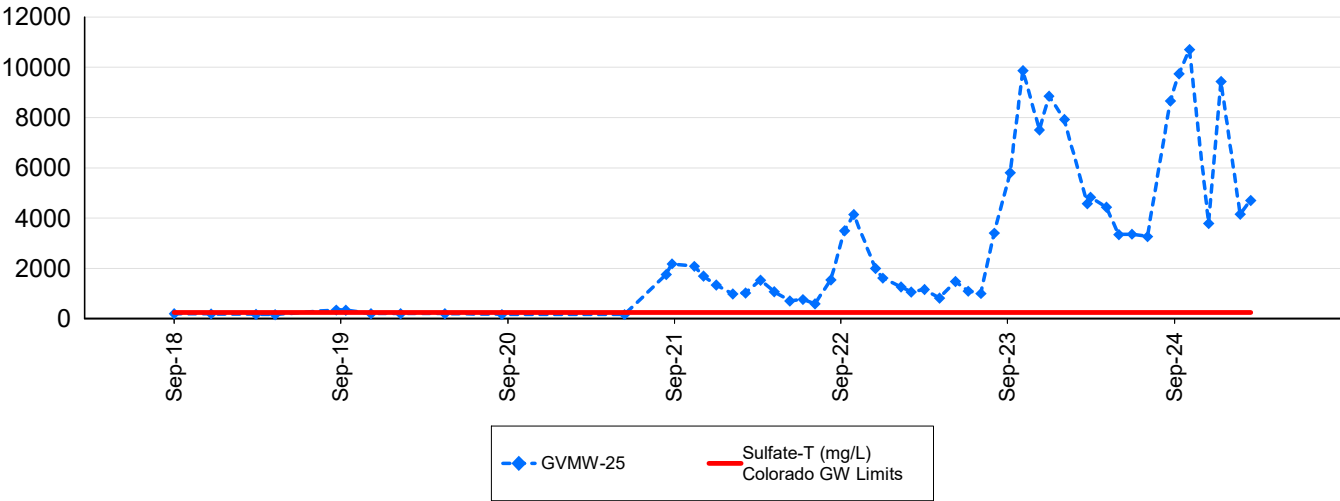
Grassy Valley: Silver - Dissolved (mg/L)



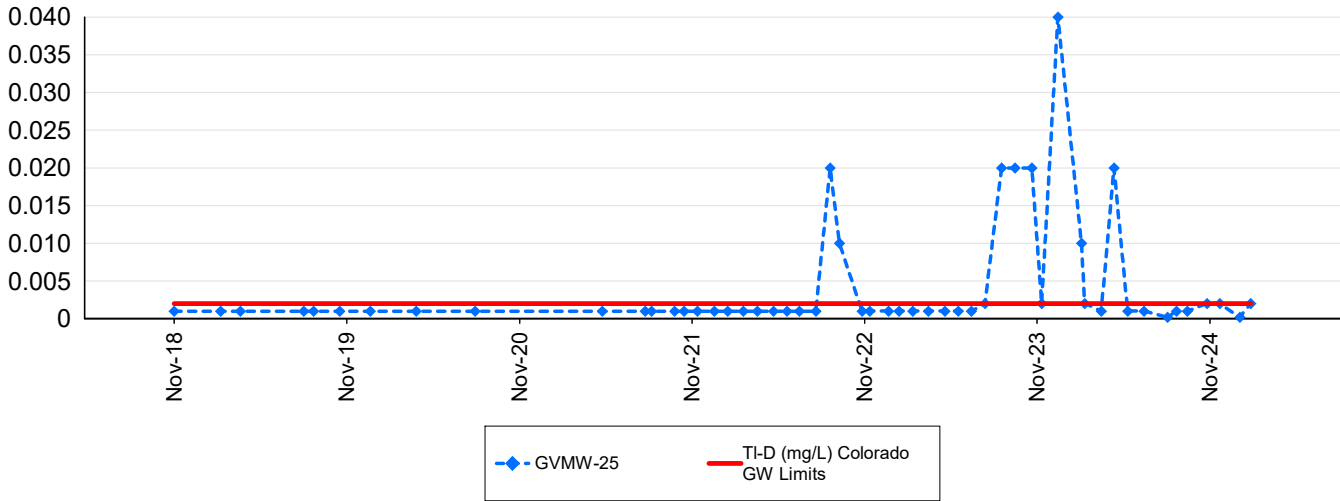
Grassy Valley: Sodium - Dissolved (mg/L)



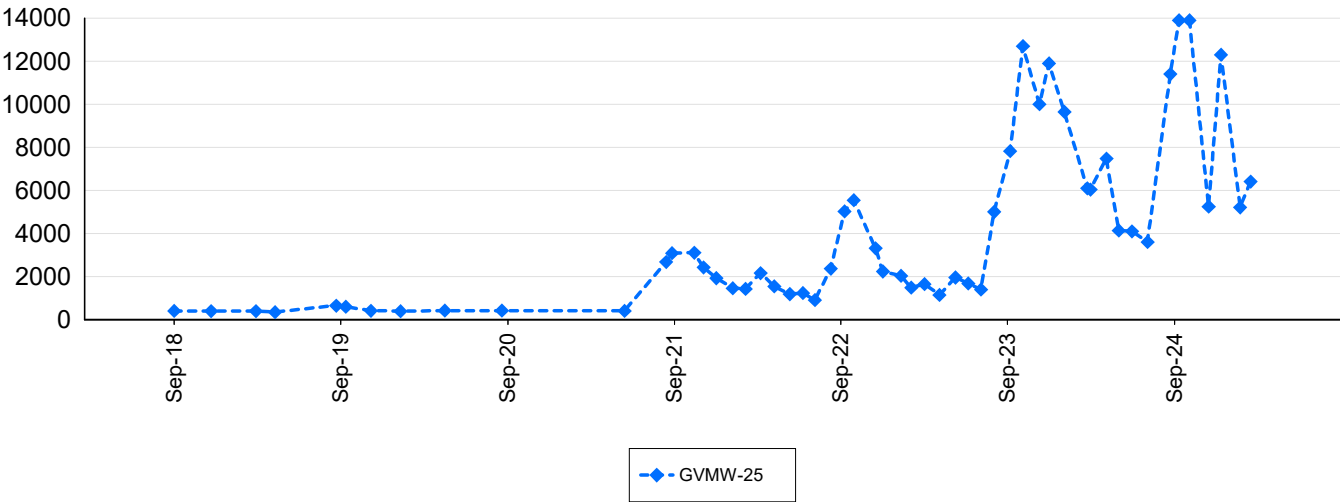
Grassy Valley: Sulfate - Total (mg/L)



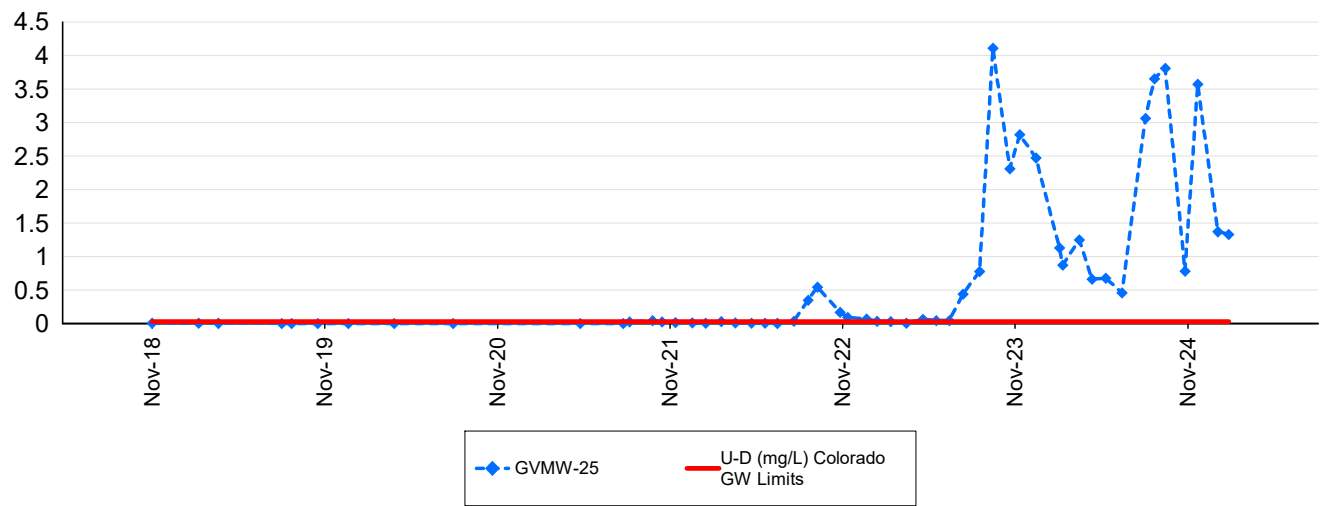
Grassy Valley: Thallium - Dissolved (mg/L)



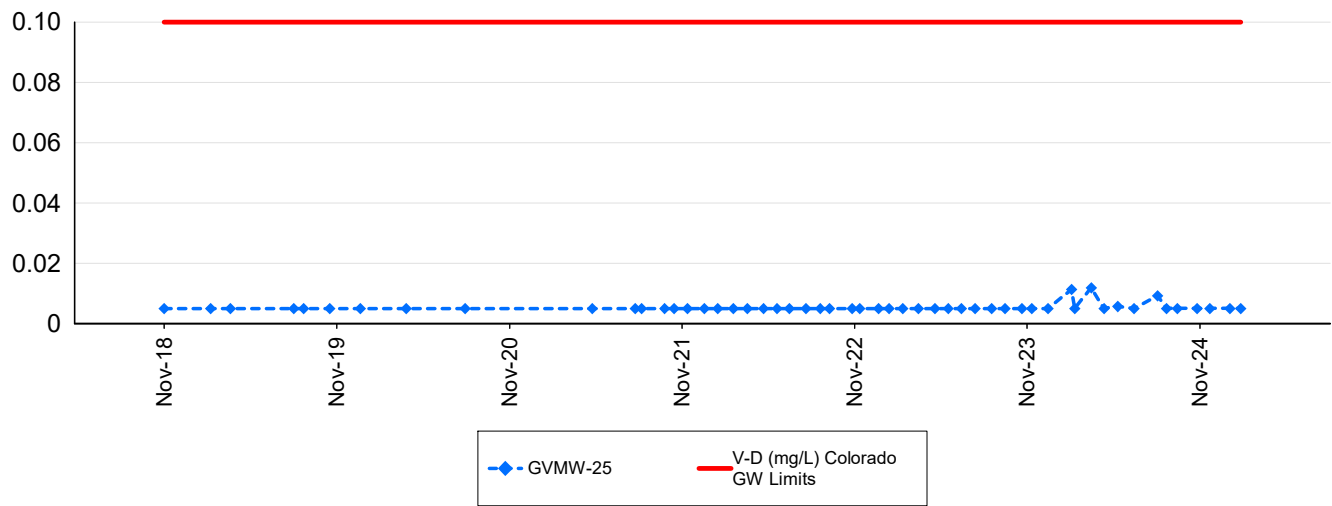
Grassy Valley: Total Dissolved Solids (mg/L)



Grassy Valley: Uranium - Dissolved (mg/L)



Grassy Valley: Vanadium - Dissolved (mg/L)



Grassy Valley: Zinc - Dissolved (mg/L)

