



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

July 28, 2025

RE: Monthly Grassy Valley Report June 2025 Submission, July 28, 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 has been collected as outlined in the Grassy Valley Monthly Monitoring Plan, approved as TR-132 by the Division on March 10, 2023.

METHODOLOGY

In June 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 June 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-31, GVMW-32, OSABH12, OSABH14, and OSABH-18, were dry;
- GVMW-24A had sediment-laden water that caused the pump to overheat and malfunction;
- GVMW-36 and OSABH-16 had insufficient water to sample;
- All Seeps and EMP's were dry; and
- GV-02 and GV-03 were 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 four quality assurance/quality control (QA/QC) samples in June 2025 (included in Attachment 1). Two duplicate samples and two rinse blank samples were collected per section 8.0 of the approved QAPP.

RESULTS

Analytical results are compared to applicable standards in Table 2 for groundwater samples and in Attachment 2 for surface water samples. Complete laboratory analytical reports from the June 2025 sampling event are included in Attachment 1 and field-collected data is presented on the sampling logs in Attachment 3.

DISCUSSION**Groundwater**

During the data collection period, observed groundwater quality data previously indicated a trend in which peak constituent concentrations occur around October, followed by a decline through the fall. Over the past two years, a rebound in some 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 observed 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. So far, summer 2025 data seem to confirm the observed trends.

Trend graphs for various constituents at the GVMW-25 monitoring location are provided in Attachment 4. Overall, results in June indicate either the same or slightly lower concentrations for most constituents as compared to May 2025. However, concentrations of chromium and silver increased relative to May 2025. Additionally, ammonia, antimony, boron, cyanide, lead, mercury, molybdenum, nitrite, thallium, and vanadium were not detected in the June 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-8B and GVMW-22A locations;
- Elevated aluminum, beryllium, cadmium, fluoride, manganese, nickel, low pH, and sulfate at GVMW-24B;
- Elevated 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.

Analytical results from the point-of-compliance wells (GVMW-26A and GVMW-26B) comply with all applicable standards.

Newly Constructed Monitoring Wells

During the June 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-30, GVMW-33, and GVMW-34. Other notable results include:

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

Surface water

Flowing water was observed at the GV-06, GV-4.5 and GV-05 monitoring locations in June 2025 and samples were collected. Monitoring locations GV-03 and GV-02 did not have flowing water, and no samples were collected. Monitoring location GV-4.5 exceeded Regulation 32 standards (Classification and Numeric Standards for Arkansas River Basin) for total iron and dissolved iron. GV-05 exceeded Regulation 32 standards (Classification and Numeric Standards for Arkansas River Basin) for total iron. GV-06 exceeded Regulation 32 standards (Classification and Numeric Standards for Arkansas River Basin) for total and dissolved iron as well as phosphorus.

Stormwater Detention Ponds

EMP-16, EMP-17, EMP-17A, EMP-17B, and EMP-20 were dry during the 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

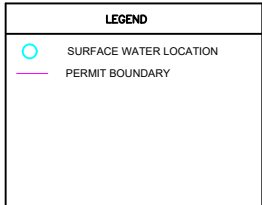
Firm Name and Address	
 CRIPPLE CREEK & VICTOR	

Drawing Name	
GRASSY VALLEY MONITORING WELLS	

Project	Sheet
GRASSY VALLEY O&P	G1

Date
10/8/2024

Scale
500 1000 Feet



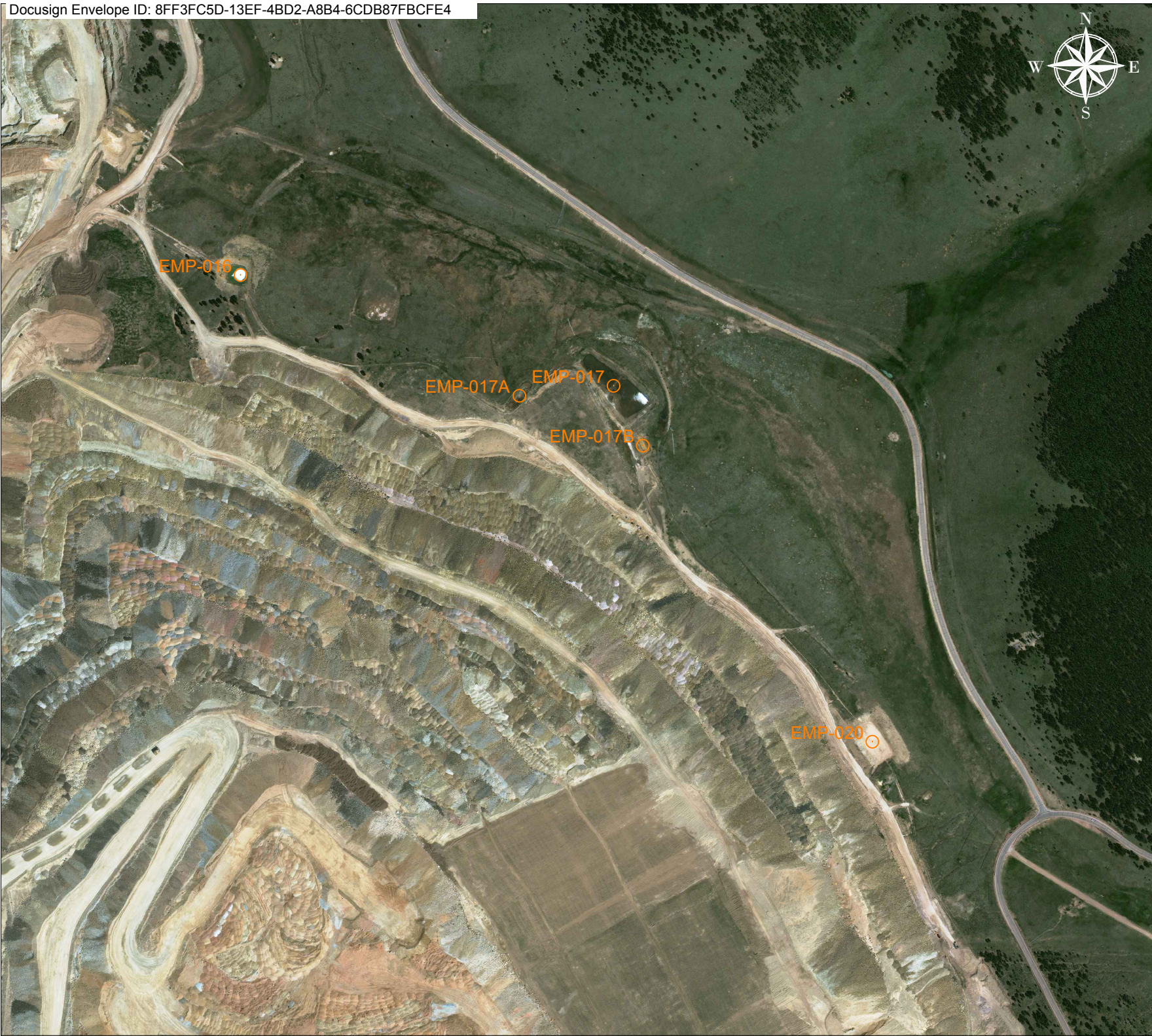
Firm Name and Address

NewmontTM
CRIPPLE CREEK & VICTOR

GRASSY VALLEY
SURFACE WATER MONITORING

Project GRASSY VALLEY GAPP	Sheet G2
Date 10/8/2024	

0 Scale
 700
1400
Feet



LEGEND		
	EMP	
	PERMIT BOUNDARY	

General Notes		

No.	Revision/Issue	Date

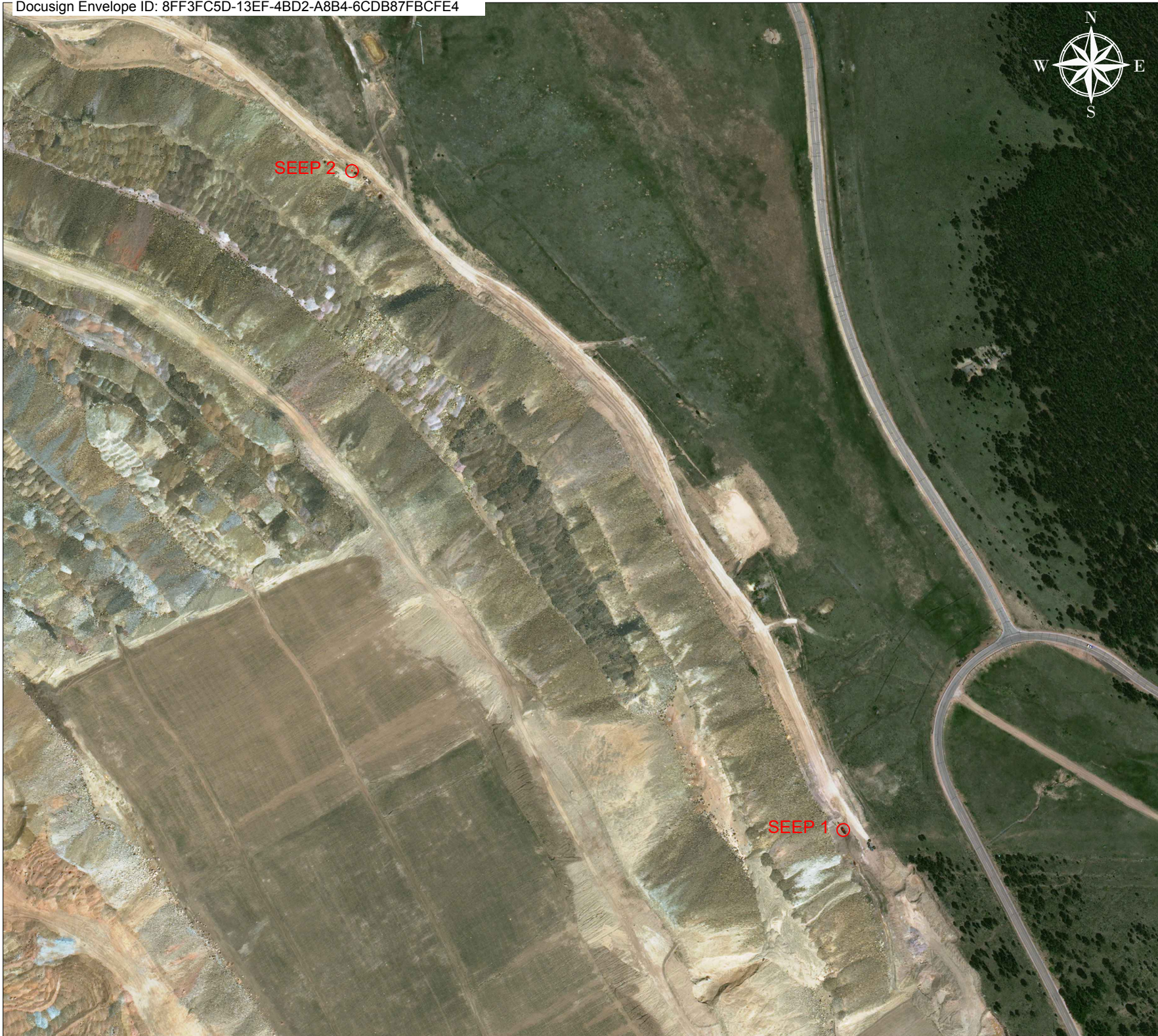
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 CRIPPLE CREEK & VICTOR	

Drawing Name	
GRASSY VALLEY EMP MONITORING	

Project	Sheet
GRASSY VALLEY OAPP	G3

Date
10/8/2024

Scale
300 600 Feet



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  Feet	

Tables

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

Monitoring Location	Date Monitored	Status
GVMW-4A	6/5/2025	Sampled
GVMW-7A	6/3/2025	Sampled
GVMW-7B	6/3/2025	Sampled
GVMW-8A	6/5/2025	Sampled
GVMW-8B	6/5/2025	Sampled
GVMW-10	6/24/2025	Sampled
GVMW-15A	6/5/2025	Sampled
GVMW-15B	6/5/2025	Sampled
GVMW-15C	6/5/2025	Dry at 418' BTOC
GVMW-22A	6/3/2025	Sampled
GVMW-22B	6/3/2025	Sampled
GVMW-24A	6/9/2025	Not sampled due to sediment laden water causing the pump to overheat; unable to pump well
GVMW-24B	6/9/2025	Sampled
GVMW-25	6/10/2025	Sampled
GMVW-26A	6/4/2025	Sampled
GVMW-26B	6/4/2025	Sampled
GVMW-27	6/23/2025	Sampled
GVMW-28	6/10/2025	Sampled
GVMW-29	6/24/2025	Dry at 38.05' BTOC
GVMW-30	6/24/2025	Sampled
GVMW-31	6/24/2025	Dry at 61.45' BTOC
GVMW-32	6/24/2025	Dry at 67.17' BTOC
GVMW-33	6/10/2025	Sampled
GVMW-34	6/25/2025	Sampled
GVMW-35A	6/23/2025	Sampled
GVMW-35B	6/25/2025	Sampled
GVMW-36	6/26/2025	NS-IW
GVMW-37A	6/5/2025	Sampled
GVMW-37B	6/5/2025	Sampled
OSABH-12	6/5/2025	Dry at 39' bgs
OSABH-14	6/9/2025	Dry at 29' bgs
OSABH-16	6/25/2025	NS-IW
OSABH-17	6/23/2025	Sampled
OSABH-18	6/5/2025	Dry at 52' BTOC
Ecosa Seep-1	6/24/2025	Dry
Ecosa Seep-2	6/24/2025	Dry
GV-02	6/25/2025	Not sampled; no flowing water
GV-03	6/25/2025	Not sampled; no flowing water
GV-06	6/30/2025	Sampled
GV-4.5	6/30/2025	Sampled
GV-05	6/30/2025	Sampled
EMP-016	6/24/2025	Not sampled; location dry
EMP-017	6/23/2025	Not sampled; location dry
EMP-017A	6/23/2025	Not sampled; location dry
EMP-17B	6/23/2025	Not sampled; location dry
EMP-17C	6/23/2025	Not sampled; location dry
EMP-020	6/23/2025	Not sampled; location dry

Notes:

' - feet

BTOC - below top of casing

NS-IW - Not sampled due to insufficient water

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

ANALYTE	Reg 41 TVS	Site Wide NPL	UNIT	Well I.D. Sample Date	GVMW-4A 6/5/2025	GVMW-7A 6/3/2025	GVMW-7B 6/3/2025	GVMW-8A* 6/5/2025	GVMW-8B 6/5/2025	GVMW-10 6/24/2025	GVMW-15A 6/5/2025	GVMW-15B 6/5/2025	GVMW-22A 6/3/2025	GVMW-22B 6/3/2025	GVMW-24B 6/9/2025	GVMW-25 6/10/2025	GMWV-26A 6/4/2025	GVMW-26B 6/4/2025
Aluminum - Dissolved	5	7	mg/L		<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	0.342	<0.080	<0.080	8.45	387	<0.080	<0.080
Ammonia	NA	NA	mg/L		<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<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	<0.00100	<0.00100	<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	0.00671	0.112	<0.00100	<0.00100
Barium - Dissolved	2	NA	mg/L		0.172	0.208	0.0459	<0.0020	0.0059	0.0142	0.053	0.0142	0.103	0.0666	0.0162	0.0128	0.203	0.108
Beryllium - Dissolved	0.004	NA	mg/L		<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.0279	<0.00200	<0.00200	0.0195	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	<0.0400
Cadmium - Dissolved	0.005	0.005	mg/L		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0162	0.796	<0.0020	<0.0020
Chloride - Total	250	NA	mg/L		9.49	19.2	23.1	64	50.6	5.66	1.67	1.77	5.88	13.4	56.2	27	1.34	1.97
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	<0.0060	0.0569	<0.0060	<0.0060
Cobalt - Dissolved	0.05	NA	mg/L		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0297	0.059	<0.0060	<0.0060	0.0069	0.774	<0.0060	<0.0060
Copper - Dissolved	0.2	0.2	mg/L		<0.0100	<0.0100	<0.0100	<0.0100	0.0219	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	1.33	<0.0100	<0.0100
Cyanide - Free	0.2	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	<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	<0.0050	<0.0050	<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	<0.0050	<0.0050	<0.0050	<0.0050
Fluoride - Total F	2	2	mg/L		0.168	0.831	0.359	1.97	2.28	1.26	0.319	0.338	2.31	0.352	2.41	1.34	<0.100	<0.100
Iron - Dissolved	0.3	14	mg/L		8.03	1.27	<0.100	<0.100	<0.100	<0.100	33.8	22.6	<0.100	<0.100	<0.100	1.34	<0.100	<0.100
Lead - Dissolved	0.05	NA	mg/L		<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	0.0442	<0.0075	<0.0075	<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	0.093	<0.040	<0.040	<0.040	<0.040	<0.040	0.164	<0.040	<0.040
Manganese - Dissolved	0.05	3	mg/L		1.98	0.237	0.0093	<0.0080	<0.0080	2.54	1.93	1.34	0.0128	<0.0080	4.24	124	<0.0080	<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	<0.000200
Molybdenum - Dissolved	0.21	NA	mg/L		<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	0.0403	<0.0080	<0.0080	0.009	<0.0080	<0.0080	0.0131	<0.0080	<0.0080
Nickel - Dissolved	0.1	NA	mg/L		0.0135	<0.0100	<0.0100	<0.0100	0.0013	0.0173	0.0709	0.121	<0.0100	<0.0100	<0.0100	0.157	<0.0100	0.011
Nitrate as Nitrogen	10	10	mg/L		<0.050	<0.050	0.843	1.36	2.25	<0.250	<0.050	<0.050	0.062	1.14	1.93	0.444	<0.050	0.836
Nitrite + Nitrate as Nitrogen	10	11	mg/L		<0.100	<0.100	0.843	1.36	2.25	<0.500	<0.100	<0.100	1.14	1.93	<0.500	<0.100	0.861	<0.100
Nitrite as Nitrogen	1	1	mg/L		<0.050	<0.500	<0.050	<0.050	<0.050	<0.250	<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		6.49	7.47	6.58	6.89	6.79	6.78	6.48	4.89	7.9	6.71	5.04	3.72	7.98	6.55
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	0.00117	0.00189	0.00934	<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	0.0399	<0.0050	<0.0050
Sodium - Dissolved	NA	NA	mg/L		9.68	10.2	12.2	24.2	24.6	37.6	13.5	13.6	36.6	15.8	21.6	37.5	31	9.99
Sulfate - Total	250	NA	mg/L		69.2	26.2	129	68.5	86.5	1,140	195	275	33.6	70.7	1,900	4,360	15.1	20.6
Thallium - Dissolved	0.002	NA	mg/L		<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.00023	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
Total Dissolved Solids	NA	NA	mg/L		191	245	297	286	281	2,100	328	423	228	185	2,500	6,380	179	83
Uranium - Dissolved	0.03	NA	mg/L		0.000109	0.00471	0.00077	0.00512	0.00262	0.048	<0.000100	0.00319	0.0036	0.000462	0.0116	0.933	0.00337	0.000102
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	<0.0050
Zinc - Dissolved	2	2	mg/L		0.0244	0.0128	0.0173	0.0118	0.0128	0.18	0.266	1.23	0.02	0.0153	0.256	29.1	0.0156	0.0133

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 - June 2025
Cripple Creek and Victor Gold Mining Company

ANALYTE	Reg 41 TVS	Site Wide NPL	UNIT	Well I.D. Sample Date	GVMW-27 6/23/2025	GVMW-28 6/10/2025	GVMW-30 6/24/2025	GVMW-33 6/10/2025	GVMW-34 6/25/2025	GVMW-35A 6/23/2025	GVMW-35B 6/25/2025	GVMW-37A 6/5/2025	GVMW-37B 6/5/2025	OSABH-17 6/23/2025
Aluminum - Dissolved	5	7	mg/L		19.8	883	449	485	25.3	<0.080	<0.080	<0.080	<0.080	3.880
Ammonia	NA	NA	mg/L		<0.030	<0.030	<0.030	0.128	<0.030	<0.030	<0.030	<0.030	<0.030	0.062
Antimony - Dissolved	0.006	NA	mg/L		<0.00100	<0.00100	<0.00100	<0.00100	0.00100	0.00427	<0.00100	0.0011	<0.00100	<0.0200
Arsenic - Dissolved	0.01	NA	mg/L		0.00718	0.215	0.0676	0.204	0.00176	<0.00100	<0.00100	0.00228	<0.00100	0.554
Barium - Dissolved	2	NA	mg/L		0.021	0.0102	0.0108	0.0182	0.0298	0.0622	0.0123	0.0715	0.109	<0.0200
Beryllium - Dissolved	0.004	NA	mg/L		0.0238	0.626	0.632	0.547	0.0225	<0.00200	<0.00200	<0.00200	<0.00200	0.723
Boron - Total	0.75	NA	mg/L		<0.0400	<0.0400	<0.0400	<0.0400	0.054	<0.0400	<0.0400	<0.0400	<0.0400	<0.400
Cadmium - Dissolved	0.005	0.005	mg/L		0.0666	1.75	0.361	1.03	0.102	<0.0020	<0.0020	<0.0020	<0.0020	8.35
Chloride - Total	250	NA	mg/L		135	4.07	2.62	5.26	25.2	16.7	86.8	3.89	6.18	27.8
Chromium - Dissolved	0.1	NA	mg/L		<0.0060	0.168	0.297	0.0562	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.655
Cobalt - Dissolved	0.05	NA	mg/L		0.0479	1.58	0.627	0.628	0.0905	<0.0060	<0.0060	<0.0060	<0.0060	18.5
Copper - Dissolved	0.2	0.2	mg/L		0.0639	4.29	0.289	1.09	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	14.1
Cyanide - Free	0.2	NA	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0500
Cyanide - Total	NA	NA	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0226
Cyanide - WAD	NA	0.2	mg/L		<0.0050	<0.0050	<0.0500	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0500
Fluoride - Total F	2	2	mg/L		4.04	104	19.7	96	31.8	0.173	0.109	1.5	1.28	598
Iron - Dissolved	0.3	14	mg/L		1.05	39.8	23.9	1.79	<0.100	<0.100	<0.100	<0.100	<0.100	68.9
Lead - Dissolved	0.05	NA	mg/L		<0.0075	0.0126	0.0115	0.0188	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	0.0995
Lithium - Dissolved	2.5	NA	mg/L		0.051	0.332	0.386	0.195	0.38	0.071	0.101	<0.040	<0.040	2.03
Manganese - Dissolved	0.05	3	mg/L		12.5	267	70.5	184	117	<0.0080	0.3	0.034	1.22	1.410
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
Molybdenum - Dissolved	0.21	NA	mg/L		<0.0080	0.0291	<0.0080	0.0198	<0.0080	0.0131	<0.0080	0.0212	<0.0080	<0.0800
Nickel - Dissolved	0.1	NA	mg/L		0.115	2.69	1.84	1.57	0.494	<0.0100	<0.0100	<0.0100	<0.0100	15.3
Nitrate as Nitrogen	10	10	mg/L		2.24	<0.500	2.47	5.46	10.7	0.057	15	<0.050	0.113	<2.50
Nitrite + Nitrate as Nitrogen	10	11	mg/L		<2.50	<1.00	2.5	5.49	10.8	0.107	15.1	<0.100	0.134	<5.00
Nitrite as Nitrogen	1	1	mg/L		<1.25	<0.500	<0.500	<0.250	<0.250	<0.050	0.093	<0.050	<0.050	<2.50
pH Field	6.5-8.5	6.0-8.5	pH units		4.93	3.1	3.12	3.86	5.71	12.01	8.37	9.19	8.14	3.14
Selenium - Dissolved	0.02	0.024	mg/L		<0.00100	0.0217	0.0083	0.0205	0.0146	<0.00100	0.00611	<0.00100	<0.00100	0.0569
Silver - Dissolved	0.05	NA	mg/L		<0.0050	0.189	<0.0050	0.174	0.0053	<0.0050	<0.0050	<0.0050	<0.0050	<0.0500
Sodium - Dissolved	NA	NA	mg/L		45.2	33.1	36.4	83.2	51.3	38.4	16.5	36.7	48.2	13.1
Sulfate - Total	250	NA	mg/L		607	8,630	4,850	5,500	2,830	394	1,380	166	552	30,400
Thallium - Dissolved	0.002	NA	mg/L		<0.000200	<0.00200	<0.00100	<0.00200	<0.00100	<0.000200	<0.000200	<0.000200	<0.000200	<0.00400
Total Dissolved Solids	NA	NA	mg/L		1,060	12,100	7,340	7,900	4,740	795	2,520	338	912	48,000
Uranium - Dissolved	0.03	NA	mg/L		0.0707	2.6	0.971	1.84	0.0501	0.000174	0.00592	0.00289	0.00547	13.4
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	<0.0500
Zinc - Dissolved	2	2	mg/L		2.32	77.1	6.12	27.2	12.3	0.0168	0.0161	0.0113	0.0119	309

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



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Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0110**

Reported: 20-Jun-25 13:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-8B	X5F0110-01	Ground Water	05-Jun-25 08:25	JC	06-Jun-2025	
GVMW-8A	X5F0110-02	Ground Water	05-Jun-25 08:57	JC	06-Jun-2025	
GVMW-37A	X5F0110-03	Ground Water	05-Jun-25 09:40	JC	06-Jun-2025	
GVMW-37B	X5F0110-04	Ground Water	05-Jun-25 09:40	JC	06-Jun-2025	
GVMW-15A	X5F0110-05	Ground Water	05-Jun-25 11:05	JC	06-Jun-2025	
GVMW-15B	X5F0110-06	Ground Water	05-Jun-25 11:10	JC	06-Jun-2025	
GVMW-4A	X5F0110-07	Ground Water	05-Jun-25 13:08	JC	06-Jun-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: X5F0110

The state of origin only accredits for drinking water analyses.

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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0110**

Reported: 20-Jun-25 13:52

Client Sample ID: **GVMW-8B**

Sampled: 05-Jun-25 08:25

Received: 06-Jun-25

Sampled By: JC

SVL Sample ID: **X5F0110-01 (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	44.7	mg/L	0.100	0.069		X525112	JRR	06/18/25 09:43	
EPA 200.7	Magnesium	6.80	mg/L	0.500	0.090		X525112	JRR	06/18/25 09:43	
EPA 200.7	Potassium	1.29	mg/L	0.50	0.18		X525112	JRR	06/18/25 09:43	
SM 2340 B	Hardness (as CaCO3)	141	mg/L	2.31	0.543		N/A		06/12/25 10:43	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X524077	JRR	06/12/25 10:43	
EPA 200.7	Barium	0.0059	mg/L	0.0020	0.0019		X524077	JRR	06/12/25 10:43	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X524077	JRR	06/12/25 10:43	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X524077	JRR	06/12/25 10:43	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X524077	JRR	06/12/25 10:43	
EPA 200.7	Calcium	45.4	mg/L	0.100	0.069		X524077	JRR	06/12/25 10:43	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X524077	JRR	06/12/25 10:43	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X524077	JRR	06/12/25 10:43	
EPA 200.7	Copper	0.0219	mg/L	0.0100	0.0027		X524077	JRR	06/12/25 10:43	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X524077	JRR	06/12/25 10:43	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X524077	JRR	06/12/25 10:43	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X524077	JRR	06/12/25 10:43	
EPA 200.7	Magnesium	7.16	mg/L	0.500	0.090		X524077	JRR	06/12/25 10:43	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X524077	JRR	06/12/25 10:43	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X524077	JRR	06/12/25 10:43	
EPA 200.7	Nickel	0.0130	mg/L	0.0100	0.0048		X524077	JRR	06/12/25 10:43	
EPA 200.7	Potassium	1.41	mg/L	0.50	0.18		X524077	JRR	06/12/25 10:43	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X524077	JRR	06/12/25 10:43	
EPA 200.7	Sodium	24.6	mg/L	0.50	0.12		X524077	JRR	06/12/25 10:43	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X524077	JRR	06/12/25 10:43	
EPA 200.7	Zinc	0.0128	mg/L	0.0100	0.0054		X524077	JRR	06/12/25 10:43	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X524162	SMU	06/16/25 18:50	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X524162	SMU	06/16/25 18:50	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X524162	SMU	06/16/25 18:50	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X524162	SMU	06/16/25 18:50	
EPA 200.8	Uranium	0.00262	mg/L	0.000100	0.000052		X524162	SMU	06/16/25 18:50	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X524039	SJN	06/13/25 14:00	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X524068	JPM	06/11/25 12:04	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X524066	ORW	06/11/25 12:22	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X524181	ORW	06/13/25 15:46	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X524109	ORW	06/12/25 12:14	
SM 2310 B	Acidity to pH 8.3	-35.9	mg/L as CaCO3	10.0			X525169	MWD	06/18/25 12:12	
SM 2320 B	Total Alkalinity	38.7	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 18:54	
SM 2320 B	Bicarbonate	38.7	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 18:54	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 18:54	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 18:54	
SM 2540 C	Total Diss. Solids	281	mg/L	10			X524033	TJL	06/11/25 13:25	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X524034	TJL	06/11/25 14:15	
SM 4500 H B	pH @24.7°C	6.8	pH Units				X524081	MWD	06/10/25 18:54	H5

SVL holds the following certifications:

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

Work order Report Page 2 of 21



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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5F0110 Reported: 20-Jun-25 13:52
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Client Sample ID: **GVMW-8B**
SVL Sample ID: **X5F0110-01 (Ground Water)**

Sampled: 05-Jun-25 08:25
Received: 06-Jun-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	50.6	mg/L	2.00	0.22	10	X523229	RS	06/06/25 19:44	
EPA 300.0	Fluoride	2.28	mg/L	0.100	0.017		X523229	RS	06/06/25 19:29	
EPA 300.0	Nitrate as N	2.25	mg/L	0.050	0.013		X523229	RS	06/06/25 19:29	
EPA 300.0	Nitrate+Nitrite as N	2.25	mg/L	0.100	0.044		X523229	RS	06/06/25 19:29	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X523229	RS	06/06/25 19:29	
EPA 300.0	Sulfate as SO4	86.5	mg/L	3.00	1.80	10	X523229	RS	06/06/25 19:44	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.91 meq/L	Anion Sum: 4.28 meq/L	C/A Balance: -4.58 %	Calculated TDS: 251	TDS/cTDS: 1.12
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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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0110**

Reported: 20-Jun-25 13:52

Client Sample ID: **GVMW-8A**

Sampled: 05-Jun-25 08:57

Received: 06-Jun-25

Sampled By: JC

SVL Sample ID: **X5F0110-02 (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	48.0	mg/L	0.100	0.069		X525112	JRR	06/18/25 09:47	
EPA 200.7	Magnesium	6.01	mg/L	0.500	0.090		X525112	JRR	06/18/25 09:47	
EPA 200.7	Potassium	0.75	mg/L	0.50	0.18		X525112	JRR	06/18/25 09:47	
SM 2340 B	Hardness (as CaCO3)	144	mg/L	2.31	0.543		N/A		06/12/25 10:44	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X524077	JRR	06/12/25 10:44	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X524077	JRR	06/12/25 10:44	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X524077	JRR	06/12/25 10:44	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X524077	JRR	06/12/25 10:44	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X524077	JRR	06/12/25 10:44	
EPA 200.7	Calcium	50.0	mg/L	0.100	0.069		X524077	JRR	06/12/25 10:44	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X524077	JRR	06/12/25 10:44	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X524077	JRR	06/12/25 10:44	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X524077	JRR	06/12/25 10:44	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X524077	JRR	06/12/25 10:44	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X524077	JRR	06/12/25 10:44	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X524077	JRR	06/12/25 10:44	
EPA 200.7	Magnesium	6.46	mg/L	0.500	0.090		X524077	JRR	06/12/25 10:44	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X524077	JRR	06/12/25 10:44	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X524077	JRR	06/12/25 10:44	
EPA 200.7	Nickel	0.0100	mg/L	0.0100	0.0048		X524077	JRR	06/12/25 10:44	
EPA 200.7	Potassium	0.82	mg/L	0.50	0.18		X524077	JRR	06/12/25 10:44	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X524077	JRR	06/12/25 10:44	
EPA 200.7	Sodium	24.2	mg/L	0.50	0.12		X524077	JRR	06/12/25 10:44	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X524077	JRR	06/12/25 10:44	
EPA 200.7	Zinc	0.0118	mg/L	0.0100	0.0054		X524077	JRR	06/12/25 10:44	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X524162	SMU	06/16/25 18:53	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X524162	SMU	06/16/25 18:53	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X524162	SMU	06/16/25 18:53	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X524162	SMU	06/16/25 18:53	
EPA 200.8	Uranium	0.00512	mg/L	0.000100	0.000052		X524162	SMU	06/16/25 18:53	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X524039	SJN	06/13/25 14:04	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X524068	JPM	06/11/25 12:07	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X524066	ORW	06/11/25 12:24	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X524181	ORW	06/13/25 15:48	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X524109	ORW	06/12/25 12:17	
SM 2310 B	Acidity to pH 8.3	-45.5	mg/L as CaCO3	10.0			X525169	MWD	06/18/25 12:12	
SM 2320 B	Total Alkalinity	49.0	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 19:09	
SM 2320 B	Bicarbonate	49.0	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 19:09	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 19:09	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 19:09	
SM 2540 C	Total Diss. Solids	286	mg/L	10			X524033	TJL	06/11/25 13:25	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X524034	TJL	06/11/25 14:15	
SM 4500 H B	pH @24.5°C	7.0	pH Units				X524081	MWD	06/10/25 19:09	H5



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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5F0110 Reported: 20-Jun-25 13:52
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Client Sample ID: **GVMW-8A**
SVL Sample ID: **X5F0110-02 (Ground Water)**

Sampled: 05-Jun-25 08:57
Received: 06-Jun-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	64.0	mg/L	2.00	0.22	10	X523229	RS	06/06/25 20:53	M4
EPA 300.0	Fluoride	1.97	mg/L	0.100	0.017		X523229	RS	06/06/25 20:31	
EPA 300.0	Nitrate as N	1.36	mg/L	0.050	0.013		X523229	RS	06/06/25 20:31	
EPA 300.0	Nitrate+Nitrite as N	1.36	mg/L	0.100	0.044		X523229	RS	06/06/25 20:31	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X523229	RS	06/06/25 20:31	
EPA 300.0	Sulfate as SO4	68.5	mg/L	3.00	1.80	10	X523229	RS	06/06/25 20:53	M4

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.97 meq/L	Anion Sum: 4.41 meq/L	C/A Balance: -5.21 %	Calculated TDS: 250	TDS/cTDS: 1.14
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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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0110**

Reported: 20-Jun-25 13:52

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

Sampled: 05-Jun-25 09:40

Received: 06-Jun-25

Sampled By: JC

SVL Sample ID: **X5F0110-03 (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	40.1	mg/L	0.100	0.069		X525112	JRR	06/18/25 10:24	
EPA 200.7	Magnesium	9.79	mg/L	0.500	0.090		X525112	JRR	06/18/25 10:24	
EPA 200.7	Potassium	3.32	mg/L	0.50	0.18		X525112	JRR	06/18/25 10:24	
SM 2340 B	Hardness (as CaCO3)	146	mg/L	2.31	0.543		N/A		06/12/25 10:46	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X524077	JRR	06/12/25 10:46	
EPA 200.7	Barium	0.0715	mg/L	0.0020	0.0019		X524077	JRR	06/12/25 10:46	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X524077	JRR	06/12/25 10:46	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X524077	JRR	06/12/25 10:46	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X524077	JRR	06/12/25 10:46	
EPA 200.7	Calcium	42.4	mg/L	0.100	0.069		X524077	JRR	06/12/25 10:46	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X524077	JRR	06/12/25 10:46	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X524077	JRR	06/12/25 10:46	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X524077	JRR	06/12/25 10:46	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X524077	JRR	06/12/25 10:46	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X524077	JRR	06/12/25 10:46	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X524077	JRR	06/12/25 10:46	
EPA 200.7	Magnesium	10.7	mg/L	0.500	0.090		X524077	JRR	06/12/25 10:46	
EPA 200.7	Manganese	0.0340	mg/L	0.0080	0.0034		X524077	JRR	06/12/25 10:46	
EPA 200.7	Molybdenum	0.0212	mg/L	0.0080	0.0034		X524077	JRR	06/12/25 10:46	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X524077	JRR	06/12/25 10:46	
EPA 200.7	Potassium	3.58	mg/L	0.50	0.18		X524077	JRR	06/12/25 10:46	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X524077	JRR	06/12/25 10:46	
EPA 200.7	Sodium	36.7	mg/L	0.50	0.12		X524077	JRR	06/12/25 10:46	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X524077	JRR	06/12/25 10:46	
EPA 200.7	Zinc	0.0113	mg/L	0.0100	0.0054		X524077	JRR	06/12/25 10:46	
EPA 200.8	Antimony	0.00110	mg/L	0.00100	0.00072		X524162	SMU	06/16/25 18:56	
EPA 200.8	Arsenic	0.00228	mg/L	0.00100	0.00021		X524162	SMU	06/16/25 18:56	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X524162	SMU	06/16/25 18:56	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X524162	SMU	06/16/25 18:56	
EPA 200.8	Uranium	0.00289	mg/L	0.000100	0.000052		X524162	SMU	06/16/25 18:56	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X524039	SJN	06/13/25 14:06	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X524068	JPM	06/11/25 12:10	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X524066	ORW	06/11/25 12:26	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X524181	ORW	06/13/25 16:01	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X524109	ORW	06/12/25 12:20	
SM 2310 B	Acidity to pH 8.3	-55.1	mg/L as CaCO3	10.0			X525169	MWD	06/18/25 12:12	
SM 2320 B	Total Alkalinity	58.7	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 19:14	
SM 2320 B	Bicarbonate	51.0	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 19:14	
SM 2320 B	Carbonate	7.7	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 19:14	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 19:14	
SM 2540 C	Total Diss. Solids	338	mg/L	10			X524033	TJL	06/11/25 13:25	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X524034	TJL	06/11/25 14:15	
SM 4500 H B	pH @24.5°C	8.7	pH Units				X524081	MWD	06/10/25 19:14	H5



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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5F0110 Reported: 20-Jun-25 13:52
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Client Sample ID: **GVMW-37A**
SVL Sample ID: **X5F0110-03 (Ground Water)**

Sampled: 05-Jun-25 09:40
Received: 06-Jun-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	3.89	mg/L	0.20	0.02		X523229	RS	06/06/25 21:40	
EPA 300.0	Fluoride	1.50	mg/L	0.100	0.017		X523229	RS	06/06/25 21:40	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X523229	RS	06/06/25 21:40	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X523229	RS	06/06/25 21:40	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X523229	RS	06/06/25 21:40	
EPA 300.0	Sulfate as SO4	166	mg/L	3.00	1.80	10	X523229	RS	06/06/25 21:55	

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.50 meq/L	Anion Sum: 4.82 meq/L	C/A Balance: -3.41 %	Calculated TDS: 298	TDS/cTDS: 1.13
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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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Cripple Creek & Victor Gold Mining Company
Ironclad Security 1632 County Rd 82
Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X5F0110**
Reported: 20-Jun-25 13:52

Client Sample ID: **GVMW-37B**
SVL Sample ID: **X5F0110-04 (Ground Water)**

Sampled: 05-Jun-25 09:40
Received: 06-Jun-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	161	mg/L	0.100	0.069		X525112	JRR	06/18/25 10:27	
EPA 200.7	Magnesium	29.2	mg/L	0.500	0.090		X525112	JRR	06/18/25 10:27	
EPA 200.7	Potassium	1.97	mg/L	0.50	0.18		X525112	JRR	06/18/25 10:27	
SM 2340 B	Hardness (as CaCO3)	541	mg/L	2.31	0.543		N/A		06/18/25 10:27	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X524077	JRR	06/12/25 10:48	
EPA 200.7	Barium	0.109	mg/L	0.0020	0.0019		X524077	JRR	06/12/25 10:48	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X524077	JRR	06/12/25 10:48	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X524077	JRR	06/12/25 10:48	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X524077	JRR	06/12/25 10:48	
EPA 200.7	Calcium	167	mg/L	0.100	0.069		X524077	JRR	06/12/25 10:48	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X524077	JRR	06/12/25 10:48	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X524077	JRR	06/12/25 10:48	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X524077	JRR	06/12/25 10:48	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X524077	JRR	06/12/25 10:48	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X524077	JRR	06/12/25 10:48	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X524077	JRR	06/12/25 10:48	
EPA 200.7	Magnesium	30.5	mg/L	0.500	0.090		X524077	JRR	06/12/25 10:48	
EPA 200.7	Manganese	1.22	mg/L	0.0080	0.0034		X524077	JRR	06/12/25 10:48	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X524077	JRR	06/12/25 10:48	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X524077	JRR	06/12/25 10:48	
EPA 200.7	Potassium	2.00	mg/L	0.50	0.18		X524077	JRR	06/12/25 10:48	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X524077	JRR	06/12/25 10:48	
EPA 200.7	Sodium	48.2	mg/L	0.50	0.12		X524077	JRR	06/12/25 10:48	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X524077	JRR	06/12/25 10:48	
EPA 200.7	Zinc	0.0119	mg/L	0.0100	0.0054		X524077	JRR	06/12/25 10:48	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X524162	SMU	06/16/25 19:12	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X524162	SMU	06/16/25 19:12	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X524162	SMU	06/16/25 19:12	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X524162	SMU	06/16/25 19:12	
EPA 200.8	Uranium	0.00547	mg/L	0.000100	0.000052		X524162	SMU	06/16/25 19:12	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X524039	SJN	06/13/25 14:08	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X524068	JPM	06/11/25 12:13	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X524066	ORW	06/11/25 12:28	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X524181	ORW	06/13/25 16:04	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X524109	ORW	06/12/25 12:23	
SM 2310 B	Acidity to pH 8.3	-122	mg/L as CaCO3	10.0			X525169	MWD	06/18/25 12:12	
SM 2320 B	Total Alkalinity	116	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 19:20	
SM 2320 B	Bicarbonate	116	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 19:20	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 19:20	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 19:20	
SM 2540 C	Total Diss. Solids	912	mg/L	10			X524033	TJL	06/11/25 13:25	
SM 2540 D	Total Susp. Solids	11.0	mg/L	5.0			X524034	TJL	06/11/25 14:15	
SM 4500 H B	pH @24.6°C	7.9	pH Units				X524081	MWD	06/10/25 19:20	H5



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Cripple Creek & Victor Gold Mining Company	Project Name: Cripple Creek/Victor Water and Soil 2024
Ironclad Security 1632 County Rd 82	Work Order: X5F0110
Cripple Creek, CO 80813	Reported: 20-Jun-25 13:52

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

SVL Sample ID: **X5F0110-04 (Ground Water)**

Sample Report Page 2 of 2

Sampled: 05-Jun-25 09:40
Received: 06-Jun-25
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	6.18	mg/L	0.20	0.02		X523229	RS	06/06/25 22:11	
EPA 300.0	Fluoride	1.28	mg/L	0.100	0.017		X523229	RS	06/06/25 22:11	
EPA 300.0	Nitrate as N	0.113	mg/L	0.050	0.013		X523229	RS	06/06/25 22:11	
EPA 300.0	Nitrate+Nitrite as N	0.134	mg/L	0.100	0.044		X523229	RS	06/06/25 22:11	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X523229	RS	06/06/25 22:11	
EPA 300.0	Sulfate as SO4	552	mg/L	7.50	4.50	25	X523229	RS	06/09/25 17:15	

Cation/Anion Balance and TDS Ratios										
Cation Sum: 12.6 meq/L	Anion Sum: 14.1 meq/L	C/A Balance: -5.31 %	Calculated TDS: 874	TDS/cTDS: 1.04						

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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Cripple Creek & Victor Gold Mining Company
Ironclad Security 1632 County Rd 82
Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X5F0110**
Reported: 20-Jun-25 13:52

Client Sample ID: **GVMW-15A**
SVL Sample ID: **X5F0110-05 (Ground Water)**

Sampled: 05-Jun-25 11:05
Received: 06-Jun-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	19.9	mg/L	0.100	0.069		X525112	JRR	06/18/25 10:31	
EPA 200.7	Magnesium	17.4	mg/L	0.500	0.090		X525112	JRR	06/18/25 10:31	
EPA 200.7	Potassium	1.82	mg/L	0.50	0.18		X525112	JRR	06/18/25 10:31	
SM 2340 B	Hardness (as CaCO3)	121	mg/L	2.31	0.543		N/A		06/12/25 10:50	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X524077	JRR	06/12/25 10:50	
EPA 200.7	Barium	0.0530	mg/L	0.0020	0.0019		X524077	JRR	06/12/25 10:50	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X524077	JRR	06/12/25 10:50	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X524077	JRR	06/12/25 10:50	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X524077	JRR	06/12/25 10:50	
EPA 200.7	Calcium	20.3	mg/L	0.100	0.069		X524077	JRR	06/12/25 10:50	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X524077	JRR	06/12/25 10:50	
EPA 200.7	Cobalt	0.0297	mg/L	0.0060	0.0046		X524077	JRR	06/12/25 10:50	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X524077	JRR	06/12/25 10:50	
EPA 200.7	Iron	33.8	mg/L	0.100	0.056		X524077	JRR	06/12/25 10:50	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X524077	JRR	06/12/25 10:50	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X524077	JRR	06/12/25 10:50	
EPA 200.7	Magnesium	18.5	mg/L	0.500	0.090		X524077	JRR	06/12/25 10:50	
EPA 200.7	Manganese	1.93	mg/L	0.0080	0.0034		X524077	JRR	06/12/25 10:50	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X524077	JRR	06/12/25 10:50	
EPA 200.7	Nickel	0.0709	mg/L	0.0100	0.0048		X524077	JRR	06/12/25 10:50	
EPA 200.7	Potassium	1.91	mg/L	0.50	0.18		X524077	JRR	06/12/25 10:50	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X524077	JRR	06/12/25 10:50	
EPA 200.7	Sodium	13.5	mg/L	0.50	0.12		X524077	JRR	06/12/25 10:50	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X524077	JRR	06/12/25 10:50	
EPA 200.7	Zinc	0.266	mg/L	0.0100	0.0054		X524077	JRR	06/12/25 10:50	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X524162	SMU	06/16/25 19:18	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X524162	SMU	06/16/25 19:18	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X524162	SMU	06/16/25 19:18	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X524162	SMU	06/16/25 19:18	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X524162	SMU	06/16/25 19:18	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X524039	SJN	06/13/25 14:10	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X524068	JPM	06/11/25 12:16	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X524066	ORW	06/11/25 12:30	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X524181	ORW	06/13/25 16:06	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X524109	ORW	06/12/25 12:26	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X525169	MWD	06/18/25 12:12	
SM 2320 B	Total Alkalinity	7.7	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 19:26	
SM 2320 B	Bicarbonate	7.7	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 19:26	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 19:26	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 19:26	
SM 2540 C	Total Diss. Solids	328	mg/L	10			X524033	TJL	06/11/25 13:25	
SM 2540 D	Total Susp. Solids	28.0	mg/L	5.0			X524034	TJL	06/11/25 14:15	
SM 4500 H B	pH @24.5°C	5.8	pH Units				X524081	MWD	06/10/25 19:26	H5



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Cripple Creek & Victor Gold Mining Company

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5F0110**

Reported: 20-Jun-25 13:52

Client Sample ID: **GVMW-15A**

SVL Sample ID: **X5F0110-05 (Ground Water)**

Sampled: 05-Jun-25 11:05

Received: 06-Jun-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	1.67	mg/L	0.20	0.02		X523229	RS	06/06/25 22:42	
EPA 300.0	Fluoride	0.319	mg/L	0.100	0.017		X523229	RS	06/06/25 22:42	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X523229	RS	06/06/25 22:42	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X523229	RS	06/06/25 22:42	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X523229	RS	06/06/25 22:42	
EPA 300.0	Sulfate as SO4	195	mg/L	3.00	1.80	10	X523229	RS	06/06/25 22:58	

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.36 meq/L

Anion Sum: 4.28 meq/L

C/A Balance: 0.91 %

Calculated TDS: 255

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



One Government Gulch - PO Box 929
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Cripple Creek & Victor Gold Mining Company
Ironclad Security 1632 County Rd 82
Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X5F0110**
Reported: 20-Jun-25 13:52

Client Sample ID: **GVMW-15B**
SVL Sample ID: **X5F0110-06 (Ground Water)**

Sampled: 05-Jun-25 11:10
Received: 06-Jun-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	38.3	mg/L	0.100	0.069		X525112	JRR	06/18/25 10:35	
EPA 200.7	Magnesium	21.2	mg/L	0.500	0.090		X525112	JRR	06/18/25 10:35	
EPA 200.7	Potassium	1.99	mg/L	0.50	0.18		X525112	JRR	06/18/25 10:35	
SM 2340 B	Hardness (as CaCO3)	190	mg/L	2.31	0.543		N/A		06/18/25 10:35	
Metals (Dissolved)										
EPA 200.7	Aluminum	0.342	mg/L	0.080	0.054		X524077	JRR	06/12/25 10:53	
EPA 200.7	Barium	0.0142	mg/L	0.0020	0.0019		X524077	JRR	06/12/25 10:53	
EPA 200.7	Beryllium	0.0279	mg/L	0.00200	0.00080		X524077	JRR	06/12/25 10:53	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X524077	JRR	06/12/25 10:53	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X524077	JRR	06/12/25 10:53	
EPA 200.7	Calcium	40.9	mg/L	0.100	0.069		X524077	JRR	06/12/25 10:53	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X524077	JRR	06/12/25 10:53	
EPA 200.7	Cobalt	0.0590	mg/L	0.0060	0.0046		X524077	JRR	06/12/25 10:53	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X524077	JRR	06/12/25 10:53	
EPA 200.7	Iron	22.6	mg/L	0.100	0.056		X524077	JRR	06/12/25 10:53	
EPA 200.7	Lead	0.0442	mg/L	0.0075	0.0049		X524077	JRR	06/12/25 10:53	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X524077	JRR	06/12/25 10:53	
EPA 200.7	Magnesium	23.0	mg/L	0.500	0.090		X524077	JRR	06/12/25 10:53	
EPA 200.7	Manganese	1.34	mg/L	0.0080	0.0034		X524077	JRR	06/12/25 10:53	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X524077	JRR	06/12/25 10:53	
EPA 200.7	Nickel	0.121	mg/L	0.0100	0.0048		X524077	JRR	06/12/25 10:53	
EPA 200.7	Potassium	2.17	mg/L	0.50	0.18		X524077	JRR	06/12/25 10:53	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X524077	JRR	06/12/25 10:53	
EPA 200.7	Sodium	13.6	mg/L	0.50	0.12		X524077	JRR	06/12/25 10:53	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X524077	JRR	06/12/25 10:53	
EPA 200.7	Zinc	1.23	mg/L	0.0100	0.0054		X524077	JRR	06/12/25 10:53	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X524162	SMU	06/16/25 19:21	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X524162	SMU	06/16/25 19:21	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X524162	SMU	06/16/25 19:21	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X524162	SMU	06/16/25 19:21	
EPA 200.8	Uranium	0.00319	mg/L	0.000100	0.000052		X524162	SMU	06/16/25 19:21	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X524039	SJN	06/13/25 14:20	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X524068	JPM	06/11/25 12:19	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X524066	ORW	06/11/25 12:32	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X524181	ORW	06/13/25 16:09	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X524109	ORW	06/12/25 12:29	
SM 2310 B	Acidity to pH 8.3	47.8	mg/L as CaCO3	10.0			X525169	MWD	06/18/25 12:12	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 19:31	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 19:31	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 19:31	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 19:31	
SM 2540 C	Total Diss. Solids	423	mg/L	10			X524033	TJL	06/11/25 13:25	
SM 2540 D	Total Susp. Solids	6.0	mg/L	5.0			X524034	TJL	06/11/25 14:15	
SM 4500 H B	pH @24.5°C	3.7	pH Units				X524081	MWD	06/10/25 19:31	H5



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Cripple Creek & Victor Gold Mining Company

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5F0110**

Reported: 20-Jun-25 13:52

Client Sample ID: **GVMW-15B**

SVL Sample ID: **X5F0110-06 (Ground Water)**

Sampled: 05-Jun-25 11:10

Received: 06-Jun-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	1.77	mg/L	0.20	0.02		X523229	RS	06/06/25 23:44	
EPA 300.0	Fluoride	0.338	mg/L	0.100	0.017		X523229	RS	06/06/25 23:44	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X523229	RS	06/06/25 23:44	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X523229	RS	06/06/25 23:44	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X523229	RS	06/06/25 23:44	
EPA 300.0	Sulfate as SO4	275	mg/L	3.00	1.80	10	X523229	RS	06/07/25 00:00	

Cation/Anion Balance and TDS Ratios

Cation Sum: 5.25 meq/L

Anion Sum: 5.82 meq/L

C/A Balance: -5.08 %

Calculated TDS: 354

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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0110**

Reported: 20-Jun-25 13:52

Client Sample ID: **GVMW-4A**

Sampled: 05-Jun-25 13:08

Received: 06-Jun-25

Sampled By: JC

SVL Sample ID: **X5F0110-07 (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	30.0	mg/L	0.100	0.069		X525112	JRR	06/18/25 10:42	
EPA 200.7	Magnesium	18.0	mg/L	0.500	0.090		X525112	JRR	06/18/25 10:42	
EPA 200.7	Potassium	8.90	mg/L	0.50	0.18		X525112	JRR	06/18/25 10:42	
SM 2340 B	Hardness (as CaCO3)	122	mg/L	2.31	0.543		N/A		06/18/25 10:42	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X524077	JRR	06/12/25 10:55	
EPA 200.7	Barium	0.172	mg/L	0.0020	0.0019		X524077	JRR	06/12/25 10:55	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X524077	JRR	06/12/25 10:55	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X524077	JRR	06/12/25 10:55	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X524077	JRR	06/12/25 10:55	
EPA 200.7	Calcium	18.6	mg/L	0.100	0.069		X524077	JRR	06/12/25 10:55	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X524077	JRR	06/12/25 10:55	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X524077	JRR	06/12/25 10:55	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X524077	JRR	06/12/25 10:55	
EPA 200.7	Iron	8.03	mg/L	0.100	0.056		X524077	JRR	06/12/25 10:55	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X524077	JRR	06/12/25 10:55	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X524077	JRR	06/12/25 10:55	
EPA 200.7	Magnesium	11.3	mg/L	0.500	0.090		X524077	JRR	06/12/25 10:55	
EPA 200.7	Manganese	1.98	mg/L	0.0080	0.0034		X524077	JRR	06/12/25 10:55	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X524077	JRR	06/12/25 10:55	
EPA 200.7	Nickel	0.0135	mg/L	0.0100	0.0048		X524077	JRR	06/12/25 10:55	
EPA 200.7	Potassium	5.76	mg/L	0.50	0.18		X524077	JRR	06/12/25 10:55	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X524077	JRR	06/12/25 10:55	
EPA 200.7	Sodium	9.68	mg/L	0.50	0.12		X524077	JRR	06/12/25 10:55	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X524077	JRR	06/12/25 10:55	
EPA 200.7	Zinc	0.0244	mg/L	0.0100	0.0054		X524077	JRR	06/12/25 10:55	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X524162	SMU	06/16/25 19:24	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X524162	SMU	06/16/25 19:24	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X524162	SMU	06/16/25 19:24	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X524162	SMU	06/16/25 19:24	
EPA 200.8	Uranium	0.000109	mg/L	0.000100	0.000052		X524162	SMU	06/16/25 19:24	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X524039	SJN	06/13/25 14:22	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X524068	JPM	06/11/25 12:22	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X524066	ORW	06/11/25 12:34	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X524181	ORW	06/13/25 16:11	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X524109	ORW	06/12/25 12:32	
SM 2310 B	Acidity to pH 8.3	-45.5	mg/L as CaCO3	10.0			X525169	MWD	06/18/25 12:12	
SM 2320 B	Total Alkalinity	56.2	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 19:36	
SM 2320 B	Bicarbonate	56.2	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 19:36	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 19:36	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 19:36	
SM 2540 C	Total Diss. Solids	191	mg/L	10			X524033	TJL	06/11/25 13:25	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X524034	TJL	06/11/25 14:15	
SM 4500 H B	pH @24.5°C	6.7	pH Units				X524081	MWD	06/10/25 19:36	H5



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www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0110**

Reported: 20-Jun-25 13:52

Client Sample ID: **GVMW-4A**

Sampled: 05-Jun-25 13:08

SVL Sample ID: **X5F0110-07 (Ground Water)**

Received: 06-Jun-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	9.49	mg/L	0.20	0.02		X523229	RS	06/07/25 00:15	
EPA 300.0	Fluoride	0.168	mg/L	0.100	0.017		X523229	RS	06/07/25 00:15	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X523229	RS	06/07/25 00:15	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X523229	RS	06/07/25 00:15	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X523229	RS	06/07/25 00:15	
EPA 300.0	Sulfate as SO4	69.2	mg/L	3.00	1.80	10	X523229	RS	06/07/25 00:31	

Cation/Anion Balance and TDS Ratios

Cation Sum: 2.80 meq/L

Anion Sum: 2.84 meq/L

C/A Balance: -0.77 %

Calculated TDS: 169

TDS/cTDS: 1.13

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**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0110**

Reported: 20-Jun-25 13:52

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	X525112	18-Jun-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X525112	18-Jun-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X525112	18-Jun-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X524077	12-Jun-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X524077	12-Jun-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X524077	12-Jun-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X524077	12-Jun-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X524077	12-Jun-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X524077	12-Jun-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X524077	12-Jun-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X524077	12-Jun-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X524077	12-Jun-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X524077	12-Jun-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X524077	12-Jun-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X524077	12-Jun-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X524077	12-Jun-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X524077	12-Jun-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X524077	12-Jun-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X524077	12-Jun-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X524077	12-Jun-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X524077	12-Jun-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X524077	12-Jun-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X524077	12-Jun-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X524077	12-Jun-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X524162	16-Jun-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X524162	16-Jun-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X524162	16-Jun-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X524162	16-Jun-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X524162	16-Jun-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X524039	13-Jun-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X524068	11-Jun-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X524066	11-Jun-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X524181	13-Jun-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X524109	12-Jun-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X525169	18-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X524081	10-Jun-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X524081	10-Jun-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X524081	10-Jun-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X524081	10-Jun-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X524033	11-Jun-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X524034	11-Jun-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X523229	06-Jun-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X523229	06-Jun-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X523229	06-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X523229	06-Jun-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X523229	06-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X523229	06-Jun-25	

SVL holds the following certifications:

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

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One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

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www.svl.net

Cripple Creek & Victor Gold Mining Company

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5F0110**

Reported: 20-Jun-25 13:52

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	19.0	20.0	95	85 - 115	X525112	18-Jun-25	
EPA 200.7	Magnesium	mg/L	19.0	20.0	95.0	85 - 115	X525112	18-Jun-25	
EPA 200.7	Potassium	mg/L	19.1	20.0	95.3	85 - 115	X525112	18-Jun-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.947	1.00	94.7	85 - 115	X524077	12-Jun-25	
EPA 200.7	Barium	mg/L	0.975	1.00	97.5	85 - 115	X524077	12-Jun-25	
EPA 200.7	Beryllium	mg/L	0.945	1.00	94.5	85 - 115	X524077	12-Jun-25	
EPA 200.7	Boron	mg/L	0.987	1.00	98.7	85 - 115	X524077	12-Jun-25	
EPA 200.7	Cadmium	mg/L	0.944	1.00	94.4	85 - 115	X524077	12-Jun-25	
EPA 200.7	Calcium	mg/L	19.0	20.0	94.9	85 - 115	X524077	12-Jun-25	
EPA 200.7	Chromium	mg/L	0.957	1.00	95.7	85 - 115	X524077	12-Jun-25	
EPA 200.7	Cobalt	mg/L	0.925	1.00	92.5	85 - 115	X524077	12-Jun-25	
EPA 200.7	Copper	mg/L	0.940	1.00	94.0	85 - 115	X524077	12-Jun-25	
EPA 200.7	Iron	mg/L	9.63	10.0	96.3	85 - 115	X524077	12-Jun-25	
EPA 200.7	Lead	mg/L	0.940	1.00	94.0	85 - 115	X524077	12-Jun-25	
EPA 200.7	Lithium	mg/L	0.907	1.00	90.7	85 - 115	X524077	12-Jun-25	
EPA 200.7	Magnesium	mg/L	19.2	20.0	95.9	85 - 115	X524077	12-Jun-25	
EPA 200.7	Manganese	mg/L	0.949	1.00	94.9	85 - 115	X524077	12-Jun-25	
EPA 200.7	Molybdenum	mg/L	0.950	1.00	95.0	85 - 115	X524077	12-Jun-25	
EPA 200.7	Nickel	mg/L	0.932	1.00	93.2	85 - 115	X524077	12-Jun-25	
EPA 200.7	Potassium	mg/L	19.3	20.0	96.5	85 - 115	X524077	12-Jun-25	
EPA 200.7	Silver	mg/L	0.0494	0.0500	98.8	85 - 115	X524077	12-Jun-25	
EPA 200.7	Sodium	mg/L	18.1	19.0	95.5	85 - 115	X524077	12-Jun-25	
EPA 200.7	Vanadium	mg/L	0.969	1.00	96.9	85 - 115	X524077	12-Jun-25	
EPA 200.7	Zinc	mg/L	0.990	1.00	99.0	85 - 115	X524077	12-Jun-25	
EPA 200.8	Antimony	mg/L	0.0272	0.0250	109	85 - 115	X524162	16-Jun-25	
EPA 200.8	Arsenic	mg/L	0.0281	0.0250	112	85 - 115	X524162	16-Jun-25	
EPA 200.8	Selenium	mg/L	0.0285	0.0250	114	85 - 115	X524162	16-Jun-25	
EPA 200.8	Thallium	mg/L	0.0260	0.0250	104	85 - 115	X524162	16-Jun-25	
EPA 200.8	Uranium	mg/L	0.0265	0.0250	106	85 - 115	X524162	16-Jun-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00208	0.00200	104	85 - 115	X524039	13-Jun-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0994	0.100	99.4	90 - 110	X524068	11-Jun-25	
EPA 335.4	Cyanide (total)	mg/L	0.105	0.100	105	90 - 110	X524066	11-Jun-25	
EPA 350.1	Ammonia as N	mg/L	0.993	1.00	99.3	90 - 110	X524181	13-Jun-25	
OIA 1677	Cyanide (WAD)	mg/L	0.101	0.100	101	90 - 110	X524109	12-Jun-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1170	1180	99.1	95.4 - 104	X525169	18-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.60	9.93	96.7	94 - 106	X524081	10-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	99.1	99.3	99.8	94 - 106	X524081	10-Jun-25	
SM 2540 C	Total Diss. Solids	mg/L	244	250	97.6	85 - 115	X524033	11-Jun-25	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X524034	11-Jun-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.17	3.00	106	90 - 110	X523229	06-Jun-25	
EPA 300.0	Fluoride	mg/L	2.10	2.00	105	90 - 110	X523229	06-Jun-25	
EPA 300.0	Nitrate as N	mg/L	2.12	2.00	106	90 - 110	X523229	06-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.78	4.50	106	90 - 110	X523229	06-Jun-25	
EPA 300.0	Nitrite as N	mg/L	2.65	2.50	106	90 - 110	X523229	06-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	10.6	10.0	106	90 - 110	X523229	06-Jun-25	

SVL holds the following certifications:

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

Work order Report Page 17 of 21

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0110**

Reported: 20-Jun-25 13:52

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	X525169 - X5F0110-01	18-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	123	123	0.0	20	X524081 - X5E0457-02	10-Jun-25	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	123	123	0.0	20	X524081 - X5E0457-02	10-Jun-25	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X524081 - X5E0457-02	10-Jun-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X524081 - X5E0457-02	10-Jun-25	
SM 2540 C	Total Diss. Solids	mg/L	286	286	0.0	10	X524033 - X5F0110-02	11-Jun-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X524034 - X5F0110-02	11-Jun-25	
SM 4500 H B	pH @23.5°C	pH Units	8.2	8.2	0.1	20	X524081 - X5E0457-02	10-Jun-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	29.1	10.3	20.0	94	70 - 130	X525112 - X5F0102-01	18-Jun-25	
EPA 200.7	Calcium	mg/L	57.3	38.3	20.0	95	70 - 130	X525112 - X5F0110-06	18-Jun-25	
EPA 200.7	Magnesium	mg/L	21.1	2.12	20.0	95.1	70 - 130	X525112 - X5F0102-01	18-Jun-25	
EPA 200.7	Magnesium	mg/L	40.7	21.2	20.0	97.4	70 - 130	X525112 - X5F0110-06	18-Jun-25	
EPA 200.7	Potassium	mg/L	19.7	0.80	20.0	94.3	70 - 130	X525112 - X5F0102-01	18-Jun-25	
EPA 200.7	Potassium	mg/L	20.8	1.99	20.0	94.2	70 - 130	X525112 - X5F0110-06	18-Jun-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.976	<0.080	1.00	97.6	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Aluminum	mg/L	0.980	<0.080	1.00	98.0	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Barium	mg/L	1.17	0.208	1.00	96.4	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Barium	mg/L	1.03	0.0530	1.00	97.7	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Beryllium	mg/L	0.955	<0.00200	1.00	95.5	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Beryllium	mg/L	0.943	<0.00200	1.00	94.3	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Boron	mg/L	1.02	<0.0400	1.00	101	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Boron	mg/L	1.03	<0.0400	1.00	101	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Cadmium	mg/L	0.946	<0.0020	1.00	94.6	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Cadmium	mg/L	0.949	<0.0020	1.00	94.9	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Calcium	mg/L	65.7	46.7	20.0	94.9	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Calcium	mg/L	39.5	20.3	20.0	96.1	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Chromium	mg/L	0.959	<0.0060	1.00	95.9	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Chromium	mg/L	0.962	<0.0060	1.00	96.2	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Cobalt	mg/L	0.917	<0.0060	1.00	91.7	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Cobalt	mg/L	0.953	0.0297	1.00	92.3	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Copper	mg/L	0.932	<0.0100	1.00	93.2	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Copper	mg/L	0.958	<0.0100	1.00	95.8	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Iron	mg/L	11.0	1.27	10.0	97.2	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Iron	mg/L	43.0	33.8	10.0	92.2	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Lead	mg/L	0.941	<0.0075	1.00	94.1	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Lead	mg/L	0.942	<0.0075	1.00	94.2	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Lithium	mg/L	0.970	<0.040	1.00	97.0	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Lithium	mg/L	0.987	<0.040	1.00	98.7	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Magnesium	mg/L	41.6	21.5	20.0	100	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Magnesium	mg/L	38.6	18.5	20.0	101	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Manganese	mg/L	1.18	0.237	1.00	94.5	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Manganese	mg/L	2.87	1.93	1.00	93.5	70 - 130	X524077 - X5F0110-05	12-Jun-25	

SVL holds the following certifications:

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

Work order Report Page 18 of 21

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0110**

Reported: 20-Jun-25 13:52

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	Molybdenum	mg/L	0.958	<0.0080	1.00	95.8	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Molybdenum	mg/L	0.955	<0.0080	1.00	95.5	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Nickel	mg/L	0.926	<0.0100	1.00	92.0	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Nickel	mg/L	0.993	0.0709	1.00	92.2	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Potassium	mg/L	20.7	1.05	20.0	98.2	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Potassium	mg/L	21.7	1.91	20.0	99.0	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Silver	mg/L	0.0499	<0.0050	0.0500	99.8	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Silver	mg/L	0.0499	<0.0050	0.0500	99.8	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Sodium	mg/L	28.4	10.2	19.0	95.8	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Sodium	mg/L	31.8	13.5	19.0	96.4	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Vanadium	mg/L	0.973	<0.0050	1.00	97.3	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Vanadium	mg/L	0.980	<0.0050	1.00	98.0	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Zinc	mg/L	1.02	0.0128	1.00	101	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Zinc	mg/L	1.27	0.266	1.00	101	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.8	Antimony	mg/L	0.0275	<0.00100	0.0250	110	70 - 130	X524162 - X5F0052-01	16-Jun-25	
EPA 200.8	Antimony	mg/L	0.0276	<0.00100	0.0250	110	70 - 130	X524162 - X5F0110-04	16-Jun-25	
EPA 200.8	Arsenic	mg/L	0.0289	<0.00100	0.0250	115	70 - 130	X524162 - X5F0052-01	16-Jun-25	
EPA 200.8	Arsenic	mg/L	0.0296	<0.00100	0.0250	117	70 - 130	X524162 - X5F0110-04	16-Jun-25	
EPA 200.8	Selenium	mg/L	0.0318	0.00117	0.0250	122	70 - 130	X524162 - X5F0052-01	16-Jun-25	
EPA 200.8	Selenium	mg/L	0.0312	<0.00100	0.0250	121	70 - 130	X524162 - X5F0110-04	16-Jun-25	
EPA 200.8	Thallium	mg/L	0.0274	<0.000200	0.0250	110	70 - 130	X524162 - X5F0052-01	16-Jun-25	
EPA 200.8	Thallium	mg/L	0.0277	<0.000200	0.0250	111	70 - 130	X524162 - X5F0110-04	16-Jun-25	
EPA 200.8	Uranium	mg/L	0.0292	0.000462	0.0250	115	70 - 130	X524162 - X5F0052-01	16-Jun-25	
EPA 200.8	Uranium	mg/L	0.0346	0.00547	0.0250	117	70 - 130	X524162 - X5F0110-04	16-Jun-25	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00213	<0.000200	0.00200	106	70 - 130	X524039 - X5E0472-01	13-Jun-25	
EPA 245.1	Mercury	mg/L	0.00210	<0.000200	0.00200	105	70 - 130	X524039 - X5F0110-01	13-Jun-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.102	<0.0050	0.100	102	79 - 121	X524068 - X5F0112-01	11-Jun-25	
EPA 335.4	Cyanide (total)	mg/L	0.109	<0.0050	0.100	109	90 - 110	X524066 - X5F0110-02	11-Jun-25	
EPA 335.4	Cyanide (total)	mg/L	0.101	<0.0050	0.100	101	90 - 110	X524066 - X5F0110-01	11-Jun-25	
EPA 350.1	Ammonia as N	mg/L	0.948	<0.030	1.00	94.8	90 - 110	X524181 - X5F0102-02	13-Jun-25	
EPA 350.1	Ammonia as N	mg/L	0.915	<0.030	1.00	91.5	90 - 110	X524181 - X5F0110-02	13-Jun-25	
OIA 1677	Cyanide (WAD)	mg/L	0.103	<0.0050	0.100	103	82 - 118	X524109 - X5F0052-02	12-Jun-25	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	24.3	20.3	3.00	0.30R>S	90 - 110	X523229 - X5F0089-02	06-Jun-25	M4
EPA 300.0	Chloride	mg/L	66.5	64.0	3.00	0.30R>S	90 - 110	X523229 - X5F0110-02	06-Jun-25	M4
EPA 300.0	Fluoride	mg/L	2.45	0.418	2.00	102	90 - 110	X523229 - X5F0089-02	06-Jun-25	
EPA 300.0	Fluoride	mg/L	4.06	1.97	2.00	105	90 - 110	X523229 - X5F0110-02	06-Jun-25	
EPA 300.0	Nitrate as N	mg/L	2.11	<0.050	2.00	104	90 - 110	X523229 - X5F0089-02	06-Jun-25	
EPA 300.0	Nitrate as N	mg/L	3.49	1.36	2.00	106	90 - 110	X523229 - X5F0110-02	06-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.18	<0.100	4.00	104	90 - 110	X523229 - X5F0089-02	06-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	5.59	1.36	4.00	106	90 - 110	X523229 - X5F0110-02	06-Jun-25	
EPA 300.0	Nitrite as N	mg/L	2.07	<0.050	2.00	103	90 - 110	X523229 - X5F0089-02	06-Jun-25	
EPA 300.0	Nitrite as N	mg/L	2.11	<0.050	2.00	105	90 - 110	X523229 - X5F0110-02	06-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	108	95.3	10.0	0.30R>S	90 - 110	X523229 - X5F0089-02	06-Jun-25	M4
EPA 300.0	Sulfate as SO4	mg/L	75.8	68.5	10.0	0.30R>S	90 - 110	X523229 - X5F0110-02	06-Jun-25	M4

SVL holds the following certifications:

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

Work order Report Page 19 of 21


Cripple Creek & Victor Gold Mining Company

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5F0110**

Reported: 20-Jun-25 13:52

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	29.1	29.1	20.0	0.0	20	94	X525112 - X5F0102-01	
EPA 200.7	Magnesium	mg/L	21.1	21.1	20.0	0.0	20	95.1	X525112 - X5F0102-01	
EPA 200.7	Potassium	mg/L	19.6	19.7	20.0	0.0	20	94.2	X525112 - X5F0102-01	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.981	0.976	1.00	0.5	20	98.1	X524077 - X5F0052-03	
EPA 200.7	Barium	mg/L	1.18	1.17	1.00	0.7	20	97.2	X524077 - X5F0052-03	
EPA 200.7	Beryllium	mg/L	0.955	0.955	1.00	0.0	20	95.5	X524077 - X5F0052-03	
EPA 200.7	Boron	mg/L	1.02	1.02	1.00	0.8	20	101	X524077 - X5F0052-03	
EPA 200.7	Cadmium	mg/L	0.946	0.946	1.00	0.0	20	94.6	X524077 - X5F0052-03	
EPA 200.7	Calcium	mg/L	65.6	65.7	20.0	0.2	20	94.2	X524077 - X5F0052-03	
EPA 200.7	Chromium	mg/L	0.962	0.959	1.00	0.4	20	96.2	X524077 - X5F0052-03	
EPA 200.7	Cobalt	mg/L	0.918	0.917	1.00	0.1	20	91.8	X524077 - X5F0052-03	
EPA 200.7	Copper	mg/L	0.938	0.932	1.00	0.6	20	93.8	X524077 - X5F0052-03	
EPA 200.7	Iron	mg/L	11.0	11.0	10.0	0.0	20	97.2	X524077 - X5F0052-03	
EPA 200.7	Lead	mg/L	0.944	0.941	1.00	0.3	20	94.4	X524077 - X5F0052-03	
EPA 200.7	Lithium	mg/L	0.977	0.970	1.00	0.8	20	97.7	X524077 - X5F0052-03	
EPA 200.7	Magnesium	mg/L	41.6	41.6	20.0	0.0	20	100	X524077 - X5F0052-03	
EPA 200.7	Manganese	mg/L	1.18	1.18	1.00	0.0	20	94.6	X524077 - X5F0052-03	
EPA 200.7	Molybdenum	mg/L	0.960	0.958	1.00	0.2	20	96.0	X524077 - X5F0052-03	
EPA 200.7	Nickel	mg/L	0.929	0.926	1.00	0.3	20	92.2	X524077 - X5F0052-03	
EPA 200.7	Potassium	mg/L	20.7	20.7	20.0	0.3	20	98.5	X524077 - X5F0052-03	
EPA 200.7	Silver	mg/L	0.0503	0.0499	0.0500	0.7	20	101	X524077 - X5F0052-03	
EPA 200.7	Sodium	mg/L	28.5	28.4	19.0	0.3	20	96.2	X524077 - X5F0052-03	
EPA 200.7	Vanadium	mg/L	0.980	0.973	1.00	0.6	20	98.0	X524077 - X5F0052-03	
EPA 200.7	Zinc	mg/L	1.03	1.02	1.00	0.2	20	101	X524077 - X5F0052-03	
EPA 200.8	Antimony	mg/L	0.0285	0.0275	0.0250	3.4	20	114	X524162 - X5F0052-01	
EPA 200.8	Arsenic	mg/L	0.0294	0.0289	0.0250	1.7	20	117	X524162 - X5F0052-01	
EPA 200.8	Selenium	mg/L	0.0317	0.0318	0.0250	0.3	20	122	X524162 - X5F0052-01	
EPA 200.8	Thallium	mg/L	0.0272	0.0274	0.0250	0.6	20	109	X524162 - X5F0052-01	
EPA 200.8	Uranium	mg/L	0.0288	0.0292	0.0250	1.3	20	113	X524162 - X5F0052-01	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00208	0.00213	0.00200	2.5	20	104	X524039 - X5E0472-01	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.103	0.102	0.100	1.2	11	103	X524068 - X5F0112-01	
EPA 335.4	Cyanide (total)	mg/L	0.0945	0.109	0.100	14.5	20	94.5	X524066 - X5F0110-02	
EPA 350.1	Ammonia as N	mg/L	0.941	0.948	1.00	0.8	20	94.1	X524181 - X5F0102-02	
OIA 1677	Cyanide (WAD)	mg/L	0.102	0.103	0.100	0.9	11	102	X524109 - X5F0052-02	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	24.2	24.3	3.00	0.4	20	0.30R>S	X523229 - X5F0089-02	M4
EPA 300.0	Fluoride	mg/L	2.53	2.45	2.00	3.4	20	106	X523229 - X5F0089-02	
EPA 300.0	Nitrate as N	mg/L	2.19	2.11	2.00	3.4	20	107	X523229 - X5F0089-02	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.33	4.18	4.00	3.5	20	108	X523229 - X5F0089-02	
EPA 300.0	Nitrite as N	mg/L	2.14	2.07	2.00	3.6	20	107	X523229 - X5F0089-02	
EPA 300.0	Sulfate as SO4	mg/L	110	108	10.0	1.7	20	0.30R>S	X523229 - X5F0089-02	M4



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www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0110**

Reported: 20-Jun-25 13:52

Notes and Definitions

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.
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**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0052**

Reported: 17-Jun-25 14:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-22B	X5F0052-01	Ground Water	03-Jun-25 09:05	JC	04-Jun-2025	
GVMW-22A	X5F0052-02	Ground Water	03-Jun-25 09:50	JC	04-Jun-2025	
GVMW-7A	X5F0052-03	Ground Water	03-Jun-25 11:00	JC	04-Jun-2025	
GVMW-7B	X5F0052-04	Ground Water	03-Jun-25 12:00	JC	04-Jun-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: X5F0052

The state of origin only accredits for drinking water analyses.

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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0052**

Reported: 17-Jun-25 14:13

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

Sampled: 03-Jun-25 09:05

Received: 04-Jun-25

Sampled By: JC

SVL Sample ID: **X5F0052-01 (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	30.0	mg/L	0.100	0.069		X524245	SJN	06/16/25 13:40	
EPA 200.7	Magnesium	7.47	mg/L	0.500	0.090		X524245	SJN	06/16/25 13:40	
EPA 200.7	Potassium	1.25	mg/L	0.50	0.18		X524245	SJN	06/16/25 13:40	
SM 2340 B	Hardness (as CaCO3)	118	mg/L	2.31	0.543		N/A		06/16/25 13:40	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X524077	JRR	06/12/25 10:18	
EPA 200.7	Barium	0.0666	mg/L	0.0020	0.0019		X524077	JRR	06/12/25 10:18	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X524077	JRR	06/12/25 10:18	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X524077	JRR	06/12/25 10:18	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X524077	JRR	06/12/25 10:18	
EPA 200.7	Calcium	33.4	mg/L	0.100	0.069		X524077	JRR	06/12/25 10:18	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X524077	JRR	06/12/25 10:18	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X524077	JRR	06/12/25 10:18	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X524077	JRR	06/12/25 10:18	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X524077	JRR	06/12/25 10:18	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X524077	JRR	06/12/25 10:18	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X524077	JRR	06/12/25 10:18	
EPA 200.7	Magnesium	8.48	mg/L	0.500	0.090		X524077	JRR	06/12/25 10:18	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X524077	JRR	06/12/25 10:18	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X524077	JRR	06/12/25 10:18	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X524077	JRR	06/12/25 10:18	
EPA 200.7	Potassium	1.34	mg/L	0.50	0.18		X524077	JRR	06/12/25 10:18	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X524077	JRR	06/12/25 10:18	
EPA 200.7	Sodium	15.8	mg/L	0.50	0.12		X524077	JRR	06/12/25 10:18	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X524077	JRR	06/12/25 10:18	
EPA 200.7	Zinc	0.0153	mg/L	0.0100	0.0054		X524077	JRR	06/12/25 10:18	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X524162	SMU	06/16/25 17:20	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X524162	SMU	06/16/25 17:20	
EPA 200.8	Selenium	0.00117	mg/L	0.00100	0.00024		X524162	SMU	06/16/25 17:20	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X524162	SMU	06/16/25 17:20	
EPA 200.8	Uranium	0.000462	mg/L	0.000100	0.000052		X524162	SMU	06/16/25 17:20	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X523190	SJN	06/09/25 15:52	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X524067	JPM	06/11/25 09:25	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X524065	ORW	06/11/25 10:42	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X523198	ORW	06/06/25 13:27	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X524109	ORW	06/12/25 11:38	
SM 2310 B	Acidity to pH 8.3	-62.0	mg/L as CaCO3	10.0			X524117	MWD	06/11/25 12:25	
SM 2320 B	Total Alkalinity	62.5	mg/L as CaCO3	1.0			X523142	MWD	06/05/25 07:37	
SM 2320 B	Bicarbonate	62.5	mg/L as CaCO3	1.0			X523142	MWD	06/05/25 07:37	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X523142	MWD	06/05/25 07:37	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X523142	MWD	06/05/25 07:37	
SM 2540 C	Total Diss. Solids	185	mg/L	10			X523149	TJL	06/06/25 13:00	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X523150	TJL	06/06/25 13:55	
SM 4500 H B	pH @17.1°C	7.4	pH Units				X523142	MWD	06/05/25 07:37	H5

SVL holds the following certifications:

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

Work order Report Page 2 of 15



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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5F0052 Reported: 17-Jun-25 14:13
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Client Sample ID: **GVMW-22B**
SVL Sample ID: **X5F0052-01 (Ground Water)**

Sampled: 03-Jun-25 09:05
Received: 04-Jun-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	13.4	mg/L	2.00	0.22	10	X523140	RS	06/04/25 22:44	
EPA 300.0	Fluoride	0.352	mg/L	0.100	0.017		X523140	RS	06/04/25 22:29	
EPA 300.0	Nitrate as N	1.14	mg/L	0.050	0.013		X523140	RS	06/04/25 22:29	
EPA 300.0	Nitrate+Nitrite as N	1.14	mg/L	0.100	0.044		X523140	RS	06/04/25 22:29	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X523140	RS	06/04/25 22:29	
EPA 300.0	Sulfate as SO4	70.7	mg/L	3.00	1.80	10	X523140	RS	06/04/25 22:44	

Cation/Anion Balance and TDS Ratios

Cation Sum: 2.85 meq/L	Anion Sum: 3.20 meq/L	C/A Balance: -5.85 %	Calculated TDS: 184	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



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Cripple Creek & Victor Gold Mining Company
Ironclad Security 1632 County Rd 82
Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5F0052**

Reported: 17-Jun-25 14:13

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

Sampled: 03-Jun-25 09:50

Received: 04-Jun-25

Sampled By: JC

SVL Sample ID: **X5F0052-02 (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	28.1	mg/L	0.100	0.069		X524245	SJN	06/16/25 13:42	
EPA 200.7	Magnesium	11.2	mg/L	0.500	0.090		X524245	SJN	06/16/25 13:42	
EPA 200.7	Potassium	2.86	mg/L	0.50	0.18		X524245	SJN	06/16/25 13:42	
SM 2340 B	Hardness (as CaCO3)	122	mg/L	2.31	0.543		N/A		06/16/25 13:42	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X524077	JRR	06/12/25 10:20	
EPA 200.7	Barium	0.103	mg/L	0.0020	0.0019		X524077	JRR	06/12/25 10:20	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X524077	JRR	06/12/25 10:20	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X524077	JRR	06/12/25 10:20	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X524077	JRR	06/12/25 10:20	
EPA 200.7	Calcium	29.1	mg/L	0.100	0.069		X524077	JRR	06/12/25 10:20	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X524077	JRR	06/12/25 10:20	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X524077	JRR	06/12/25 10:20	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X524077	JRR	06/12/25 10:20	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X524077	JRR	06/12/25 10:20	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X524077	JRR	06/12/25 10:20	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X524077	JRR	06/12/25 10:20	
EPA 200.7	Magnesium	11.9	mg/L	0.500	0.090		X524077	JRR	06/12/25 10:20	
EPA 200.7	Manganese	0.0128	mg/L	0.0080	0.0034		X524077	JRR	06/12/25 10:20	
EPA 200.7	Molybdenum	0.0090	mg/L	0.0080	0.0034		X524077	JRR	06/12/25 10:20	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X524077	JRR	06/12/25 10:20	
EPA 200.7	Potassium	3.54	mg/L	0.50	0.18		X524077	JRR	06/12/25 10:20	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X524077	JRR	06/12/25 10:20	
EPA 200.7	Sodium	36.6	mg/L	0.50	0.12		X524077	JRR	06/12/25 10:20	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X524077	JRR	06/12/25 10:20	
EPA 200.7	Zinc	0.0200	mg/L	0.0100	0.0054		X524077	JRR	06/12/25 10:20	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X524162	SMU	06/16/25 17:29	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X524162	SMU	06/16/25 17:29	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X524162	SMU	06/16/25 17:29	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X524162	SMU	06/16/25 17:29	
EPA 200.8	Uranium	0.00360	mg/L	0.000100	0.000052		X524162	SMU	06/16/25 17:29	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X523190	SJN	06/09/25 15:54	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X524067	JPM	06/11/25 09:28	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X524065	ORW	06/11/25 10:44	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X523198	ORW	06/06/25 13:30	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X524109	ORW	06/12/25 11:41	
SM 2310 B	Acidity to pH 8.3	-167	mg/L as CaCO3	10.0			X524117	MWD	06/11/25 12:25	
SM 2320 B	Total Alkalinity	171	mg/L as CaCO3	1.0			X523142	MWD	06/05/25 08:11	
SM 2320 B	Bicarbonate	171	mg/L as CaCO3	1.0			X523142	MWD	06/05/25 08:11	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X523142	MWD	06/05/25 08:11	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X523142	MWD	06/05/25 08:11	
SM 2540 C	Total Diss. Solids	228	mg/L	10			X523149	TJL	06/06/25 13:00	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X523150	TJL	06/06/25 13:55	
SM 4500 H B	pH @17.4°C	8.3	pH Units				X523142	MWD	06/05/25 08:11	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



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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5F0052 Reported: 17-Jun-25 14:13
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Client Sample ID: **GVMW-22A**
SVL Sample ID: **X5F0052-02 (Ground Water)**

Sampled: 03-Jun-25 09:50
Received: 04-Jun-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	5.88	mg/L	0.20	0.02		X523140	RS	06/05/25 00:02	
EPA 300.0	Fluoride	2.31	mg/L	0.100	0.017		X523140	RS	06/05/25 00:02	
EPA 300.0	Nitrate as N	0.062	mg/L	0.050	0.013		X523140	RS	06/05/25 00:02	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X523140	RS	06/05/25 00:02	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X523140	RS	06/05/25 00:02	
EPA 300.0	Sulfate as SO4	33.6	mg/L	0.30	0.18		X523140	RS	06/05/25 00:02	

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.00 meq/L	Anion Sum: 4.41 meq/L	C/A Balance: -4.78 %	Calculated TDS: 224	TDS/cTDS: 1.02
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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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Cripple Creek & Victor Gold Mining Company
Ironclad Security 1632 County Rd 82
Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5F0052**

Reported: 17-Jun-25 14:13

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

Sampled: 03-Jun-25 11:00

Received: 04-Jun-25

Sampled By: JC

SVL Sample ID: **X5F0052-03 (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	44.1	mg/L	0.100	0.069		X524245	SJN	06/16/25 13:44	
EPA 200.7	Magnesium	19.8	mg/L	0.500	0.090		X524245	SJN	06/16/25 13:44	
EPA 200.7	Potassium	1.01	mg/L	0.50	0.18		X524245	SJN	06/16/25 13:44	
SM 2340 B	Hardness (as CaCO3)	205	mg/L	2.31	0.543		N/A		06/16/25 13:44	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X524077	JRR	06/12/25 10:21	
EPA 200.7	Barium	0.208	mg/L	0.0020	0.0019		X524077	JRR	06/12/25 10:21	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X524077	JRR	06/12/25 10:21	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X524077	JRR	06/12/25 10:21	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X524077	JRR	06/12/25 10:21	
EPA 200.7	Calcium	46.7	mg/L	0.100	0.069		X524077	JRR	06/12/25 10:21	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X524077	JRR	06/12/25 10:21	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X524077	JRR	06/12/25 10:21	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X524077	JRR	06/12/25 10:21	
EPA 200.7	Iron	1.27	mg/L	0.100	0.056		X524077	JRR	06/12/25 10:21	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X524077	JRR	06/12/25 10:21	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X524077	JRR	06/12/25 10:21	
EPA 200.7	Magnesium	21.5	mg/L	0.500	0.090		X524077	JRR	06/12/25 10:21	
EPA 200.7	Manganese	0.237	mg/L	0.0080	0.0034		X524077	JRR	06/12/25 10:21	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X524077	JRR	06/12/25 10:21	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X524077	JRR	06/12/25 10:21	
EPA 200.7	Potassium	1.05	mg/L	0.50	0.18		X524077	JRR	06/12/25 10:21	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X524077	JRR	06/12/25 10:21	
EPA 200.7	Sodium	10.2	mg/L	0.50	0.12		X524077	JRR	06/12/25 10:21	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X524077	JRR	06/12/25 10:21	
EPA 200.7	Zinc	0.0128	mg/L	0.0100	0.0054		X524077	JRR	06/12/25 10:21	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X524162	SMU	06/16/25 17:32	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X524162	SMU	06/16/25 17:32	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X524162	SMU	06/16/25 17:32	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X524162	SMU	06/16/25 17:32	
EPA 200.8	Uranium	0.00471	mg/L	0.000100	0.000052		X524162	SMU	06/16/25 17:32	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X523190	SJN	06/09/25 15:56	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X524067	JPM	06/11/25 09:31	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X524065	ORW	06/11/25 10:46	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X523198	ORW	06/06/25 13:43	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X524109	ORW	06/12/25 11:44	
SM 2310 B	Acidity to pH 8.3	-177	mg/L as CaCO3	10.0			X524117	MWD	06/11/25 12:25	
SM 2320 B	Total Alkalinity	189	mg/L as CaCO3	1.0			X523142	MWD	06/05/25 08:17	
SM 2320 B	Bicarbonate	189	mg/L as CaCO3	1.0			X523142	MWD	06/05/25 08:17	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X523142	MWD	06/05/25 08:17	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X523142	MWD	06/05/25 08:17	
SM 2540 C	Total Diss. Solids	245	mg/L	10			X523149	TJL	06/06/25 13:00	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X523150	TJL	06/06/25 13:55	
SM 4500 H B	pH @17.4°C	8.0	pH Units				X523142	MWD	06/05/25 08:17	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



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Kellogg, ID 83837-0929
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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5F0052 Reported: 17-Jun-25 14:13
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Client Sample ID: **GVMW-7A**
SVL Sample ID: **X5F0052-03 (Ground Water)**

Sampled: 03-Jun-25 11:00
Received: 04-Jun-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	19.2	mg/L	2.00	0.22	10	X523140	RS	06/05/25 01:20	
EPA 300.0	Fluoride	0.831	mg/L	0.100	0.017		X523140	RS	06/05/25 01:04	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X523140	RS	06/05/25 01:04	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X523140	RS	06/05/25 01:04	
EPA 300.0	Nitrite as N	< 0.500	mg/L	0.500	0.310	10	X523140	RS	06/05/25 01:20	
EPA 300.0	Sulfate as SO4	26.2	mg/L	0.30	0.18		X523140	RS	06/05/25 01:04	

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.37 meq/L	Anion Sum: 4.91 meq/L	C/A Balance: -5.85 %	Calculated TDS: 237	TDS/cTDS: 1.03
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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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0052**

Reported: 17-Jun-25 14:13

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

Sampled: 03-Jun-25 12:00

Received: 04-Jun-25

Sampled By: JC

SVL Sample ID: **X5F0052-04 (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	44.0	mg/L	0.100	0.069		X524245	SJN	06/16/25 13:45	
EPA 200.7	Magnesium	16.3	mg/L	0.500	0.090		X524245	SJN	06/16/25 13:45	
EPA 200.7	Potassium	1.28	mg/L	0.50	0.18		X524245	SJN	06/16/25 13:45	
SM 2340 B	Hardness (as CaCO3)	177	mg/L	2.31	0.543		N/A		06/12/25 10:27	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X524077	JRR	06/12/25 10:27	
EPA 200.7	Barium	0.0459	mg/L	0.0020	0.0019		X524077	JRR	06/12/25 10:27	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X524077	JRR	06/12/25 10:27	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X524077	JRR	06/12/25 10:27	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X524077	JRR	06/12/25 10:27	
EPA 200.7	Calcium	45.7	mg/L	0.100	0.069		X524077	JRR	06/12/25 10:27	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X524077	JRR	06/12/25 10:27	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X524077	JRR	06/12/25 10:27	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X524077	JRR	06/12/25 10:27	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X524077	JRR	06/12/25 10:27	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X524077	JRR	06/12/25 10:27	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X524077	JRR	06/12/25 10:27	
EPA 200.7	Magnesium	17.4	mg/L	0.500	0.090		X524077	JRR	06/12/25 10:27	
EPA 200.7	Manganese	0.0093	mg/L	0.0080	0.0034		X524077	JRR	06/12/25 10:27	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X524077	JRR	06/12/25 10:27	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X524077	JRR	06/12/25 10:27	
EPA 200.7	Potassium	1.53	mg/L	0.50	0.18		X524077	JRR	06/12/25 10:27	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X524077	JRR	06/12/25 10:27	
EPA 200.7	Sodium	12.2	mg/L	0.50	0.12		X524077	JRR	06/12/25 10:27	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X524077	JRR	06/12/25 10:27	
EPA 200.7	Zinc	0.0173	mg/L	0.0100	0.0054		X524077	JRR	06/12/25 10:27	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X524162	SMU	06/16/25 17:35	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X524162	SMU	06/16/25 17:35	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X524162	SMU	06/16/25 17:35	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X524162	SMU	06/16/25 17:35	
EPA 200.8	Uranium	0.000770	mg/L	0.000100	0.000052		X524162	SMU	06/16/25 17:35	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X523190	SJN	06/09/25 16:02	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X524067	JPM	06/11/25 09:34	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X524065	ORW	06/11/25 10:48	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X523198	ORW	06/06/25 13:45	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X524109	ORW	06/12/25 11:47	
SM 2310 B	Acidity to pH 8.3	-62.0	mg/L as CaCO3	10.0			X524117	MWD	06/11/25 12:25	
SM 2320 B	Total Alkalinity	59.2	mg/L as CaCO3	1.0			X523142	MWD	06/05/25 08:23	
SM 2320 B	Bicarbonate	59.2	mg/L as CaCO3	1.0			X523142	MWD	06/05/25 08:23	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X523142	MWD	06/05/25 08:23	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X523142	MWD	06/05/25 08:23	
SM 2540 C	Total Diss. Solids	297	mg/L	10			X523149	TJL	06/06/25 13:00	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X523150	TJL	06/06/25 13:55	
SM 4500 H B	pH @17.5°C	7.3	pH Units				X523142	MWD	06/05/25 08:23	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



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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5F0052 Reported: 17-Jun-25 14:13
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Client Sample ID: **GVMW-7B**
SVL Sample ID: **X5F0052-04 (Ground Water)**

Sampled: 03-Jun-25 12:00
Received: 04-Jun-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	23.1	mg/L	2.00	0.22	10	X523140	RS	06/05/25 02:22	
EPA 300.0	Fluoride	0.359	mg/L	0.100	0.017		X523140	RS	06/05/25 02:06	
EPA 300.0	Nitrate as N	0.843	mg/L	0.050	0.013		X523140	RS	06/05/25 02:06	
EPA 300.0	Nitrate+Nitrite as N	0.843	mg/L	0.100	0.044		X523140	RS	06/05/25 02:06	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X523140	RS	06/05/25 02:06	
EPA 300.0	Sulfate as SO4	129	mg/L	3.00	1.80	10	X523140	RS	06/05/25 02:22	

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.11 meq/L	Anion Sum: 4.60 meq/L	C/A Balance: -5.56 %	Calculated TDS: 267	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



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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Cripple Creek & Victor Gold Mining Company

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5F0052**

Reported: 17-Jun-25 14:13

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	X524245	16-Jun-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X524245	16-Jun-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X524245	16-Jun-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X524077	12-Jun-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X524077	12-Jun-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X524077	12-Jun-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X524077	12-Jun-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X524077	12-Jun-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X524077	12-Jun-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X524077	12-Jun-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X524077	12-Jun-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X524077	12-Jun-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X524077	12-Jun-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X524077	12-Jun-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X524077	12-Jun-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X524077	12-Jun-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X524077	12-Jun-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X524077	12-Jun-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X524077	12-Jun-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X524077	12-Jun-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X524077	12-Jun-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X524077	12-Jun-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X524077	12-Jun-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X524077	12-Jun-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X524162	16-Jun-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X524162	16-Jun-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X524162	16-Jun-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X524162	16-Jun-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X524162	16-Jun-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X523190	09-Jun-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X524067	11-Jun-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X524065	11-Jun-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X523198	06-Jun-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X524109	12-Jun-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X524117	11-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X523142	04-Jun-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X523142	04-Jun-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X523142	04-Jun-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X523142	04-Jun-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X523149	06-Jun-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X523150	06-Jun-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X523140	04-Jun-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X523140	04-Jun-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X523140	04-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X523140	04-Jun-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X523140	04-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X523140	04-Jun-25	



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0052**

Reported: 17-Jun-25 14:13

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	19.8	20.0	99	85 - 115	X524245	16-Jun-25	
EPA 200.7	Magnesium	mg/L	19.8	20.0	98.9	85 - 115	X524245	16-Jun-25	
EPA 200.7	Potassium	mg/L	20.1	20.0	101	85 - 115	X524245	16-Jun-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.947	1.00	94.7	85 - 115	X524077	12-Jun-25	
EPA 200.7	Barium	mg/L	0.975	1.00	97.5	85 - 115	X524077	12-Jun-25	
EPA 200.7	Beryllium	mg/L	0.945	1.00	94.5	85 - 115	X524077	12-Jun-25	
EPA 200.7	Boron	mg/L	0.987	1.00	98.7	85 - 115	X524077	12-Jun-25	
EPA 200.7	Cadmium	mg/L	0.944	1.00	94.4	85 - 115	X524077	12-Jun-25	
EPA 200.7	Calcium	mg/L	19.0	20.0	94.9	85 - 115	X524077	12-Jun-25	
EPA 200.7	Chromium	mg/L	0.957	1.00	95.7	85 - 115	X524077	12-Jun-25	
EPA 200.7	Cobalt	mg/L	0.925	1.00	92.5	85 - 115	X524077	12-Jun-25	
EPA 200.7	Copper	mg/L	0.940	1.00	94.0	85 - 115	X524077	12-Jun-25	
EPA 200.7	Iron	mg/L	9.63	10.0	96.3	85 - 115	X524077	12-Jun-25	
EPA 200.7	Lead	mg/L	0.940	1.00	94.0	85 - 115	X524077	12-Jun-25	
EPA 200.7	Lithium	mg/L	0.907	1.00	90.7	85 - 115	X524077	12-Jun-25	
EPA 200.7	Magnesium	mg/L	19.2	20.0	95.9	85 - 115	X524077	12-Jun-25	
EPA 200.7	Manganese	mg/L	0.949	1.00	94.9	85 - 115	X524077	12-Jun-25	
EPA 200.7	Molybdenum	mg/L	0.950	1.00	95.0	85 - 115	X524077	12-Jun-25	
EPA 200.7	Nickel	mg/L	0.932	1.00	93.2	85 - 115	X524077	12-Jun-25	
EPA 200.7	Potassium	mg/L	19.3	20.0	96.5	85 - 115	X524077	12-Jun-25	
EPA 200.7	Silver	mg/L	0.0494	0.0500	98.8	85 - 115	X524077	12-Jun-25	
EPA 200.7	Sodium	mg/L	18.1	19.0	95.5	85 - 115	X524077	12-Jun-25	
EPA 200.7	Vanadium	mg/L	0.969	1.00	96.9	85 - 115	X524077	12-Jun-25	
EPA 200.7	Zinc	mg/L	0.990	1.00	99.0	85 - 115	X524077	12-Jun-25	
EPA 200.8	Antimony	mg/L	0.0272	0.0250	109	85 - 115	X524162	16-Jun-25	
EPA 200.8	Arsenic	mg/L	0.0281	0.0250	112	85 - 115	X524162	16-Jun-25	
EPA 200.8	Selenium	mg/L	0.0285	0.0250	114	85 - 115	X524162	16-Jun-25	
EPA 200.8	Thallium	mg/L	0.0260	0.0250	104	85 - 115	X524162	16-Jun-25	
EPA 200.8	Uranium	mg/L	0.0265	0.0250	106	85 - 115	X524162	16-Jun-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00196	0.00200	98.1	85 - 115	X523190	09-Jun-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.102	0.100	102	90 - 110	X524067	11-Jun-25	
EPA 335.4	Cyanide (total)	mg/L	0.104	0.100	104	90 - 110	X524065	11-Jun-25	
EPA 350.1	Ammonia as N	mg/L	1.00	1.00	100	90 - 110	X523198	06-Jun-25	
OIA 1677	Cyanide (WAD)	mg/L	0.101	0.100	101	90 - 110	X524109	12-Jun-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1150	1180	97.7	95.4 - 104	X524117	11-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.3	9.93	104	94 - 106	X523142	04-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	102	94 - 106	X523142	04-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	385	397	97.1	94 - 106	X523142	04-Jun-25	
SM 2540 C	Total Diss. Solids	mg/L	240	250	96.0	85 - 115	X523149	06-Jun-25	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X523150	06-Jun-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.13	3.00	104	90 - 110	X523140	04-Jun-25	
EPA 300.0	Fluoride	mg/L	2.10	2.00	105	90 - 110	X523140	04-Jun-25	
EPA 300.0	Nitrate as N	mg/L	2.07	2.00	104	90 - 110	X523140	04-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.75	4.50	106	90 - 110	X523140	04-Jun-25	
EPA 300.0	Nitrite as N	mg/L	2.68	2.50	107	90 - 110	X523140	04-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	10.4	10.0	104	90 - 110	X523140	04-Jun-25	

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0052**

Reported: 17-Jun-25 14:13

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	106000	106000	0.0	20	X524117 - X5E0481-01	11-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	117	115	1.1	20	X523142 - X5E0414-02	04-Jun-25	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	117	115	1.1	20	X523142 - X5E0414-02	04-Jun-25	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X523142 - X5E0414-02	04-Jun-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X523142 - X5E0414-02	04-Jun-25	
SM 2540 C	Total Diss. Solids	mg/L	228	228	0.0	10	X523149 - X5F0052-02	06-Jun-25	
SM 2540 C	Total Diss. Solids	mg/L	305	297	2.7	10	X523149 - X5F0052-04	06-Jun-25	
SM 2540 D	Total Susp. Solids	mg/L	5.0	<5.0	<RL	10	X523150 - X5F0052-04	06-Jun-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X523150 - X5F0052-02	06-Jun-25	
SM 4500 H B	pH @20.0°C	pH Units	8.0	8.0	0.0	20	X523142 - X5E0414-02	04-Jun-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	19.1	<0.100	20.0	95	70 - 130	X524245 - X5F0061-01	16-Jun-25	
EPA 200.7	Calcium	mg/L	465	427	20.0	0.30R>S	70 - 130	X524245 - X5F0059-01	16-Jun-25	M4
EPA 200.7	Magnesium	mg/L	183	170	20.0	0.30R>S	70 - 130	X524245 - X5F0059-01	16-Jun-25	M3
EPA 200.7	Magnesium	mg/L	19.1	<0.500	20.0	95.6	70 - 130	X524245 - X5F0061-01	16-Jun-25	
EPA 200.7	Potassium	mg/L	56.8	37.5	20.0	96.3	70 - 130	X524245 - X5F0059-01	16-Jun-25	
EPA 200.7	Potassium	mg/L	19.5	<0.50	20.0	97.4	70 - 130	X524245 - X5F0061-01	16-Jun-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.976	<0.080	1.00	97.6	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Aluminum	mg/L	0.980	<0.080	1.00	98.0	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Barium	mg/L	1.17	0.208	1.00	96.4	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Barium	mg/L	1.03	0.0530	1.00	97.7	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Beryllium	mg/L	0.955	<0.00200	1.00	95.5	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Beryllium	mg/L	0.943	<0.00200	1.00	94.3	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Boron	mg/L	1.02	<0.0400	1.00	101	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Boron	mg/L	1.03	<0.0400	1.00	101	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Cadmium	mg/L	0.946	<0.0020	1.00	94.6	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Cadmium	mg/L	0.949	<0.0020	1.00	94.9	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Calcium	mg/L	65.7	46.7	20.0	94.9	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Calcium	mg/L	39.5	20.3	20.0	96.1	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Chromium	mg/L	0.959	<0.0060	1.00	95.9	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Chromium	mg/L	0.962	<0.0060	1.00	96.2	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Cobalt	mg/L	0.917	<0.0060	1.00	91.7	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Cobalt	mg/L	0.953	0.0297	1.00	92.3	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Copper	mg/L	0.932	<0.0100	1.00	93.2	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Copper	mg/L	0.958	<0.0100	1.00	95.8	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Iron	mg/L	11.0	1.27	10.0	97.2	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Iron	mg/L	43.0	33.8	10.0	92.2	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Lead	mg/L	0.941	<0.0075	1.00	94.1	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Lead	mg/L	0.942	<0.0075	1.00	94.2	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Lithium	mg/L	0.970	<0.040	1.00	97.0	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Lithium	mg/L	0.987	<0.040	1.00	98.7	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Magnesium	mg/L	41.6	21.5	20.0	100	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Magnesium	mg/L	38.6	18.5	20.0	101	70 - 130	X524077 - X5F0110-05	12-Jun-25	

SVL holds the following certifications:

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

Work order Report Page 12 of 15

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0052**

Reported: 17-Jun-25 14:13

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	1.18	0.237	1.00	94.5	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Manganese	mg/L	2.87	1.93	1.00	93.5	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Molybdenum	mg/L	0.958	<0.0080	1.00	95.8	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Molybdenum	mg/L	0.955	<0.0080	1.00	95.5	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Nickel	mg/L	0.926	<0.0100	1.00	92.0	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Nickel	mg/L	0.993	0.0709	1.00	92.2	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Potassium	mg/L	20.7	1.05	20.0	98.2	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Potassium	mg/L	21.7	1.91	20.0	99.0	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Silver	mg/L	0.0499	<0.0050	0.0500	99.8	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Silver	mg/L	0.0499	<0.0050	0.0500	99.8	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Sodium	mg/L	28.4	10.2	19.0	95.8	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Sodium	mg/L	31.8	13.5	19.0	96.4	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Vanadium	mg/L	0.973	<0.0050	1.00	97.3	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Vanadium	mg/L	0.980	<0.0050	1.00	98.0	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Zinc	mg/L	1.02	0.0128	1.00	101	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Zinc	mg/L	1.27	0.266	1.00	101	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.8	Antimony	mg/L	0.0275	<0.00100	0.0250	110	70 - 130	X524162 - X5F0052-01	16-Jun-25	
EPA 200.8	Antimony	mg/L	0.0276	<0.00100	0.0250	110	70 - 130	X524162 - X5F0110-04	16-Jun-25	
EPA 200.8	Arsenic	mg/L	0.0289	<0.00100	0.0250	115	70 - 130	X524162 - X5F0052-01	16-Jun-25	
EPA 200.8	Arsenic	mg/L	0.0296	<0.00100	0.0250	117	70 - 130	X524162 - X5F0110-04	16-Jun-25	
EPA 200.8	Selenium	mg/L	0.0318	0.00117	0.0250	122	70 - 130	X524162 - X5F0052-01	16-Jun-25	
EPA 200.8	Selenium	mg/L	0.0312	<0.00100	0.0250	121	70 - 130	X524162 - X5F0110-04	16-Jun-25	
EPA 200.8	Thallium	mg/L	0.0274	<0.000200	0.0250	110	70 - 130	X524162 - X5F0052-01	16-Jun-25	
EPA 200.8	Thallium	mg/L	0.0277	<0.000200	0.0250	111	70 - 130	X524162 - X5F0110-04	16-Jun-25	
EPA 200.8	Uranium	mg/L	0.0292	0.000462	0.0250	115	70 - 130	X524162 - X5F0052-01	16-Jun-25	
EPA 200.8	Uranium	mg/L	0.0346	0.00547	0.0250	117	70 - 130	X524162 - X5F0110-04	16-Jun-25	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00203	<0.000200	0.00200	102	70 - 130	X523190 - X5F0005-01	09-Jun-25	
EPA 245.1	Mercury	mg/L	0.00201	<0.000200	0.00200	100	70 - 130	X523190 - X5F0057-01	09-Jun-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.106	<0.0050	0.100	106	79 - 121	X524067 - X5F0116-03	11-Jun-25	
EPA 335.4	Cyanide (total)	mg/L	0.106	<0.0050	0.100	106	90 - 110	X524065 - X5F0116-03	11-Jun-25	
EPA 335.4	Cyanide (total)	mg/L	0.106	<0.0050	0.100	106	90 - 110	X524065 - X5F0112-01	11-Jun-25	
EPA 350.1	Ammonia as N	mg/L	0.988	<0.030	1.00	98.8	90 - 110	X523198 - X5F0052-02	06-Jun-25	
OIA 1677	Cyanide (WAD)	mg/L	0.103	<0.0050	0.100	103	82 - 118	X524109 - X5F0052-02	12-Jun-25	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	15.8	13.4	3.00	0.30R>S	90 - 110	X523140 - X5F0052-01	04-Jun-25	
EPA 300.0	Chloride	mg/L	21.8	19.2	3.00	0.30R>S	90 - 110	X523140 - X5F0052-03	05-Jun-25	
EPA 300.0	Fluoride	mg/L	2.41	0.352	2.00	103	90 - 110	X523140 - X5F0052-01	04-Jun-25	
EPA 300.0	Fluoride	mg/L	2.86	0.831	2.00	101	90 - 110	X523140 - X5F0052-03	05-Jun-25	
EPA 300.0	Nitrate as N	mg/L	3.21	1.14	2.00	104	90 - 110	X523140 - X5F0052-01	04-Jun-25	
EPA 300.0	Nitrate as N	mg/L	2.09	<0.050	2.00	104	90 - 110	X523140 - X5F0052-03	05-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	5.28	1.14	4.00	103	90 - 110	X523140 - X5F0052-01	04-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.16	<0.100	4.00	102	90 - 110	X523140 - X5F0052-03	05-Jun-25	
EPA 300.0	Nitrite as N	mg/L	2.06	<0.050	2.00	103	90 - 110	X523140 - X5F0052-01	04-Jun-25	
EPA 300.0	Nitrite as N	mg/L	2.07	0.071	2.00	100	90 - 110	X523140 - X5F0052-03	05-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	80.2	70.7	10.0	94.9	90 - 110	X523140 - X5F0052-01	04-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	36.9	26.2	10.0	107	90 - 110	X523140 - X5F0052-03	05-Jun-25	

SVL holds the following certifications:

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

Work order Report Page 13 of 15

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0052**

Reported: 17-Jun-25 14:13

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	457	465	20.0	2.0	20	0.30R>S	X524245 - X5F0059-01	M4
EPA 200.7	Magnesium	mg/L	186	183	20.0	2.1	20	80.9	X524245 - X5F0059-01	
EPA 200.7	Potassium	mg/L	57.3	56.8	20.0	0.9	20	98.8	X524245 - X5F0059-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.981	0.976	1.00	0.5	20	98.1	X524077 - X5F0052-03	
EPA 200.7	Barium	mg/L	1.18	1.17	1.00	0.7	20	97.2	X524077 - X5F0052-03	
EPA 200.7	Beryllium	mg/L	0.955	0.955	1.00	0.0	20	95.5	X524077 - X5F0052-03	
EPA 200.7	Boron	mg/L	1.02	1.02	1.00	0.8	20	101	X524077 - X5F0052-03	
EPA 200.7	Cadmium	mg/L	0.946	0.946	1.00	0.0	20	94.6	X524077 - X5F0052-03	
EPA 200.7	Calcium	mg/L	65.6	65.7	20.0	0.2	20	94.2	X524077 - X5F0052-03	
EPA 200.7	Chromium	mg/L	0.962	0.959	1.00	0.4	20	96.2	X524077 - X5F0052-03	
EPA 200.7	Cobalt	mg/L	0.918	0.917	1.00	0.1	20	91.8	X524077 - X5F0052-03	
EPA 200.7	Copper	mg/L	0.938	0.932	1.00	0.6	20	93.8	X524077 - X5F0052-03	
EPA 200.7	Iron	mg/L	11.0	11.0	10.0	0.0	20	97.2	X524077 - X5F0052-03	
EPA 200.7	Lead	mg/L	0.944	0.941	1.00	0.3	20	94.4	X524077 - X5F0052-03	
EPA 200.7	Lithium	mg/L	0.977	0.970	1.00	0.8	20	97.7	X524077 - X5F0052-03	
EPA 200.7	Magnesium	mg/L	41.6	41.6	20.0	0.0	20	100	X524077 - X5F0052-03	
EPA 200.7	Manganese	mg/L	1.18	1.18	1.00	0.0	20	94.6	X524077 - X5F0052-03	
EPA 200.7	Molybdenum	mg/L	0.960	0.958	1.00	0.2	20	96.0	X524077 - X5F0052-03	
EPA 200.7	Nickel	mg/L	0.929	0.926	1.00	0.3	20	92.2	X524077 - X5F0052-03	
EPA 200.7	Potassium	mg/L	20.7	20.7	20.0	0.3	20	98.5	X524077 - X5F0052-03	
EPA 200.7	Silver	mg/L	0.0503	0.0499	0.0500	0.7	20	101	X524077 - X5F0052-03	
EPA 200.7	Sodium	mg/L	28.5	28.4	19.0	0.3	20	96.2	X524077 - X5F0052-03	
EPA 200.7	Vanadium	mg/L	0.980	0.973	1.00	0.6	20	98.0	X524077 - X5F0052-03	
EPA 200.7	Zinc	mg/L	1.03	1.02	1.00	0.2	20	101	X524077 - X5F0052-03	
EPA 200.8	Antimony	mg/L	0.0285	0.0275	0.0250	3.4	20	114	X524162 - X5F0052-01	
EPA 200.8	Arsenic	mg/L	0.0294	0.0289	0.0250	1.7	20	117	X524162 - X5F0052-01	
EPA 200.8	Selenium	mg/L	0.0317	0.0318	0.0250	0.3	20	122	X524162 - X5F0052-01	
EPA 200.8	Thallium	mg/L	0.0272	0.0274	0.0250	0.6	20	109	X524162 - X5F0052-01	
EPA 200.8	Uranium	mg/L	0.0288	0.0292	0.0250	1.3	20	113	X524162 - X5F0052-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00198	0.00203	0.00200	2.7	20	99.0	X523190 - X5F0005-01	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.107	0.106	0.100	0.8	11	107	X524067 - X5F0116-03	
EPA 335.4	Cyanide (total)	mg/L	0.108	0.106	0.100	2.4	20	108	X524065 - X5F0116-03	
EPA 350.1	Ammonia as N	mg/L	0.900	0.988	1.00	9.3	20	90.0	X523198 - X5F0052-02	
OIA 1677	Cyanide (WAD)	mg/L	0.102	0.103	0.100	0.9	11	102	X524109 - X5F0052-02	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	16.4	15.8	3.00	3.9	20	100	X523140 - X5F0052-01	
EPA 300.0	Fluoride	mg/L	2.42	2.41	2.00	0.1	20	103	X523140 - X5F0052-01	
EPA 300.0	Nitrate as N	mg/L	3.25	3.21	2.00	1.1	20	105	X523140 - X5F0052-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	5.34	5.28	4.00	1.2	20	105	X523140 - X5F0052-01	
EPA 300.0	Nitrite as N	mg/L	2.09	2.06	2.00	1.4	20	105	X523140 - X5F0052-01	
EPA 300.0	Sulfate as SO4	mg/L	80.9	80.2	10.0	0.9	20	102	X523140 - X5F0052-01	



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www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0052**

Reported: 17-Jun-25 14:13

Notes and Definitions

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.
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.
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**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0170**

Reported: 24-Jun-25 15:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-33	X5F0170-01	Ground Water	10-Jun-25 10:05	JC	11-Jun-2025	Q5
GVMW-28	X5F0170-02	Ground Water	10-Jun-25 11:00	JC	11-Jun-2025	Q5C
GVMW-25	X5F0170-03	Ground Water	10-Jun-25 13:00	JC	11-Jun-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: X5F0170

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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Cripple Creek & Victor Gold Mining Company

Ironclad Security 1632 County Rd 82
Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5F0170**
Reported: 24-Jun-25 15:26

Client Sample ID: **GVMW-33**

Sampled: 10-Jun-25 10:05

Received: 11-Jun-25

Sampled By: JC

SVL Sample ID: **X5F0170-01 (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	448	mg/L	0.100	0.069		X525188	JRR	06/19/25 10:51	
EPA 200.7	Magnesium	291	mg/L	0.500	0.090		X525188	JRR	06/19/25 10:51	
EPA 200.7	Potassium	7.07	mg/L	0.50	0.18		X525188	JRR	06/19/25 10:51	
SM 2340 B	Hardness (as CaCO3)	2350	mg/L	2.31	0.543		N/A		06/19/25 10:51	

Metals (Dissolved)

EPA 200.7	Aluminum	485	mg/L	0.080	0.054		X525019	SJN	06/23/25 08:47	
EPA 200.7	Barium	0.0182	mg/L	0.0020	0.0019		X525019	SJN	06/23/25 08:47	
EPA 200.7	Beryllium	0.547	mg/L	0.00200	0.00080		X525019	SJN	06/23/25 08:47	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X525019	SJN	06/23/25 08:47	
EPA 200.7	Cadmium	1.03	mg/L	0.0020	0.0016		X525019	SJN	06/23/25 08:47	
EPA 200.7	Calcium	451	mg/L	0.100	0.069		X525019	SJN	06/23/25 08:47	
EPA 200.7	Chromium	0.0562	mg/L	0.0060	0.0020		X525019	SJN	06/23/25 08:47	
EPA 200.7	Cobalt	0.628	mg/L	0.0060	0.0046		X525019	SJN	06/23/25 08:47	
EPA 200.7	Copper	1.09	mg/L	0.0100	0.0027		X525019	SJN	06/23/25 08:47	
EPA 200.7	Iron	1.79	mg/L	0.100	0.056		X525019	SJN	06/23/25 08:47	
EPA 200.7	Lead	0.0188	mg/L	0.0075	0.0049		X525019	SJN	06/23/25 08:47	
EPA 200.7	Lithium	0.195	mg/L	0.040	0.025		X525019	SJN	06/23/25 08:47	
EPA 200.7	Magnesium	298	mg/L	0.500	0.090		X525019	SJN	06/23/25 08:47	
EPA 200.7	Manganese	184	mg/L	0.0800	0.0340	10	X525019	SJN	06/23/25 10:44	
EPA 200.7	Molybdenum	0.0198	mg/L	0.0080	0.0034		X525019	SJN	06/23/25 08:47	
EPA 200.7	Nickel	1.57	mg/L	0.0100	0.0048		X525019	SJN	06/23/25 08:47	
EPA 200.7	Potassium	5.18	mg/L	0.50	0.18		X525019	SJN	06/23/25 08:47	
EPA 200.7	Silver	0.174	mg/L	0.0050	0.0019		X525019	SJN	06/23/25 08:47	
EPA 200.7	Sodium	83.2	mg/L	0.50	0.12		X525019	SJN	06/23/25 08:47	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X525019	SJN	06/23/25 08:47	E12
EPA 200.7	Zinc	27.2	mg/L	0.0100	0.0054		X525019	SJN	06/23/25 08:47	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X525061	SMU	06/23/25 15:03	
EPA 200.8	Arsenic	0.204	mg/L	0.00100	0.00021		X525061	SMU	06/23/25 15:03	
EPA 200.8	Selenium	0.0205	mg/L	0.00100	0.00024		X525061	SMU	06/23/25 15:03	
EPA 200.8	Thallium	< 0.00200	mg/L	0.00200	0.000800	10	X525061	SMU	06/23/25 16:03	D17
EPA 200.8	Uranium	1.84	mg/L	0.00100	0.000520	10	X525061	SMU	06/23/25 16:03	D17

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X524040	SJN	06/13/25 16:05	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X525072	ORW	06/19/25 19:17	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X525071	ORW	06/18/25 14:22	
EPA 350.1	Ammonia as N	0.128	mg/L	0.030	0.013		X524182	JPM	06/17/25 13:49	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X525126	ORW	06/18/25 12:46	
SM 2310 B	Acidity to pH 8.3	2880	mg/L as CaCO3	10.0			X526010	MWD	06/23/25 11:27	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X525030	MWD	06/17/25 19:12	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X525030	MWD	06/17/25 19:12	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X525030	MWD	06/17/25 19:12	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X525030	MWD	06/17/25 19:12	
SM 2540 C	Total Diss. Solids	7900	mg/L	40			X524186	TJL	06/13/25 14:10	
SM 2540 D	Total Susp. Solids	15.0	mg/L	5.0			X524187	TJL	06/16/25 08:10	
SM 4500 H B	pH @21.0°C	3.7	pH Units				X525030	MWD	06/17/25 19:12	H5

SVL holds the following certifications:

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

Work order Report Page 2 of 14



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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5F0170 Reported: 24-Jun-25 15:26
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Client Sample ID: **GVMW-33**
SVL Sample ID: **X5F0170-01 (Ground Water)**

Sampled: 10-Jun-25 10:05
Received: 11-Jun-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	5.26	mg/L	1.00	0.11	5	X524158	RS	06/11/25 16:17	D18
EPA 300.0	Fluoride	96.0	mg/L	10.0	1.70	100	X524158	RS	06/11/25 16:32	
EPA 300.0	Nitrate as N	5.46	mg/L	0.250	0.065	5	X524158	RS	06/11/25 16:17	D18
EPA 300.0	Nitrate+Nitrite as N	5.49	mg/L	0.500	0.220	5	X524158	RS	06/11/25 16:17	D18
EPA 300.0	Nitrite as N	< 0.250	mg/L	0.250	0.155	5	X524158	RS	06/11/25 16:17	D18
EPA 300.0	Sulfate as SO4	5500	mg/L	75.0	45.0	250	X524158	RS	06/12/25 06:55	

Cation/Anion Balance and TDS Ratios

Cation Sum: 112 meq/L	Anion Sum: 120 meq/L	C/A Balance: -3.65 %	Calculated TDS: 6459	TDS/cTDS: 1.22
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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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0170**

Reported: 24-Jun-25 15:26

Client Sample ID: **GVMW-28**

Sampled: 10-Jun-25 11:00

Received: 11-Jun-25

Sampled By: JC

SVL Sample ID: **X5F0170-02 (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	399	mg/L	0.100	0.069		X525188	JRR	06/19/25 10:54	
EPA 200.7	Magnesium	360	mg/L	0.500	0.090		X525188	JRR	06/19/25 10:54	
EPA 200.7	Potassium	1.09	mg/L	0.50	0.18		X525188	JRR	06/19/25 10:54	
SM 2340 B	Hardness (as CaCO3)	2510	mg/L	2.31	0.543		N/A		06/19/25 10:54	

Metals (Dissolved)

EPA 200.7	Aluminum	883	mg/L	0.800	0.540	10	X525019	SJN	06/23/25 10:45	M4
EPA 200.7	Barium	0.0102	mg/L	0.0020	0.0019		X525019	SJN	06/23/25 08:49	
EPA 200.7	Beryllium	0.626	mg/L	0.00200	0.00080		X525019	SJN	06/23/25 08:49	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X525019	SJN	06/23/25 08:49	
EPA 200.7	Cadmium	1.75	mg/L	0.0020	0.0016		X525019	SJN	06/23/25 08:49	
EPA 200.7	Calcium	400	mg/L	0.100	0.069		X525019	SJN	06/23/25 08:49	
EPA 200.7	Chromium	0.168	mg/L	0.0060	0.0020		X525019	SJN	06/23/25 08:49	
EPA 200.7	Cobalt	1.58	mg/L	0.0060	0.0046		X525019	SJN	06/23/25 08:49	
EPA 200.7	Copper	4.29	mg/L	0.0100	0.0027		X525019	SJN	06/23/25 08:49	
EPA 200.7	Iron	39.8	mg/L	0.100	0.056		X525019	SJN	06/23/25 08:49	
EPA 200.7	Lead	0.0126	mg/L	0.0075	0.0049		X525019	SJN	06/23/25 08:49	
EPA 200.7	Lithium	0.332	mg/L	0.040	0.025		X525019	SJN	06/23/25 08:49	M1
EPA 200.7	Magnesium	367	mg/L	0.500	0.090		X525019	SJN	06/23/25 08:49	
EPA 200.7	Manganese	267	mg/L	0.0800	0.0340	10	X525019	SJN	06/23/25 10:45	
EPA 200.7	Molybdenum	0.0291	mg/L	0.0080	0.0034		X525019	SJN	06/23/25 08:49	
EPA 200.7	Nickel	2.69	mg/L	0.0100	0.0048		X525019	SJN	06/23/25 08:49	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X525019	SJN	06/23/25 08:49	
EPA 200.7	Silver	0.189	mg/L	0.0050	0.0019		X525019	SJN	06/23/25 08:49	
EPA 200.7	Sodium	33.1	mg/L	0.50	0.12		X525019	SJN	06/23/25 08:49	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X525019	SJN	06/23/25 08:49	E12,M2
EPA 200.7	Zinc	77.1	mg/L	0.100	0.0540	10	X525019	SJN	06/23/25 10:45	M4
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X525061	SMU	06/23/25 15:06	
EPA 200.8	Arsenic	0.215	mg/L	0.00100	0.00021		X525061	SMU	06/23/25 15:06	
EPA 200.8	Selenium	0.0217	mg/L	0.00100	0.00024		X525061	SMU	06/23/25 15:06	
EPA 200.8	Thallium	< 0.00200	mg/L	0.00200	0.000800	10	X525061	SMU	06/23/25 16:19	D17
EPA 200.8	Uranium	2.60	mg/L	0.00100	0.000520	10	X525061	SMU	06/23/25 16:19	D17

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X524040	SJN	06/13/25 16:07	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X525072	ORW	06/19/25 19:19	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X525071	ORW	06/18/25 14:24	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X524182	JPM	06/17/25 13:52	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X525126	ORW	06/18/25 13:01	M2
SM 2310 B	Acidity to pH 8.3	5770	mg/L as CaCO3	10.0			X526010	MWD	06/23/25 11:27	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X525030	MWD	06/17/25 19:18	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X525030	MWD	06/17/25 19:18	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X525030	MWD	06/17/25 19:18	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X525030	MWD	06/17/25 19:18	
SM 2540 C	Total Diss. Solids	12100	mg/L	100			X524186	TJL	06/13/25 14:10	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X524187	TJL	06/16/25 08:10	
SM 4500 H B	pH @21.0°C	3.1	pH Units				X525030	MWD	06/17/25 19:18	H5

SVL holds the following certifications:

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

Work order Report Page 4 of 14



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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Cripple Creek & Victor Gold Mining Company	Project Name: Cripple Creek/Victor Water and Soil 2024
Ironclad Security 1632 County Rd 82	Work Order: X5F0170
Cripple Creek, CO 80813	Reported: 24-Jun-25 15:26

Client Sample ID: **GVMW-28**

SVL Sample ID: **X5F0170-02 (Ground Water)**

Sampled: 10-Jun-25 11:00
Received: 11-Jun-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	2.00	0.22	10	X524158	RS	06/11/25 19:08	D18
EPA 300.0	Fluoride	104	mg/L	25.0	4.25	250	X524158	RS	06/11/25 19:24	
EPA 300.0	Nitrate as N	< 0.500	mg/L	0.500	0.130	10	X524158	RS	06/11/25 19:08	D18
EPA 300.0	Nitrate+Nitrite as N	< 1.00	mg/L	1.00	0.440	10	X524158	RS	06/11/25 19:08	D18
EPA 300.0	Nitrite as N	< 0.500	mg/L	0.500	0.310	10	X524158	RS	06/11/25 19:08	D18
EPA 300.0	Sulfate as SO4	8630	mg/L	75.0	45.0	250	X524158	RS	06/11/25 19:24	

Cation/Anion Balance and TDS Ratios

Cation Sum: 166 meq/L	Anion Sum: 185 meq/L	C/A Balance: -5.38 %	Calculated TDS: 9535	TDS/cTDS: 1.27
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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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0170**

Reported: 24-Jun-25 15:26

Client Sample ID: **GVMW-25**

Sampled: 10-Jun-25 13:00

Received: 11-Jun-25

Sampled By: JC

SVL Sample ID: **X5F0170-03 (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	419	mg/L	0.100	0.069		X525188	JRR	06/19/25 11:02	
EPA 200.7	Magnesium	237	mg/L	0.500	0.090		X525188	JRR	06/19/25 11:02	
EPA 200.7	Potassium	4.95	mg/L	0.50	0.18		X525188	JRR	06/19/25 11:02	
SM 2340 B	Hardness (as CaCO3)	2030	mg/L	2.31	0.543		N/A		06/19/25 11:02	

Metals (Dissolved)

EPA 200.7	Aluminum	387	mg/L	0.080	0.054		X525019	SJN	06/23/25 08:54	
EPA 200.7	Barium	0.0128	mg/L	0.0020	0.0019		X525019	SJN	06/23/25 08:54	
EPA 200.7	Beryllium	0.324	mg/L	0.00200	0.00080		X525019	SJN	06/23/25 08:54	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X525019	SJN	06/23/25 08:54	
EPA 200.7	Cadmium	0.796	mg/L	0.0020	0.0016		X525019	SJN	06/23/25 08:54	
EPA 200.7	Calcium	418	mg/L	0.100	0.069		X525019	SJN	06/23/25 08:54	
EPA 200.7	Chromium	0.0569	mg/L	0.0060	0.0020		X525019	SJN	06/23/25 08:54	
EPA 200.7	Cobalt	0.774	mg/L	0.0060	0.0046		X525019	SJN	06/23/25 08:54	
EPA 200.7	Copper	1.33	mg/L	0.0100	0.0027		X525019	SJN	06/23/25 08:54	
EPA 200.7	Iron	1.34	mg/L	0.100	0.056		X525019	SJN	06/23/25 08:54	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X525019	SJN	06/23/25 08:54	
EPA 200.7	Lithium	0.164	mg/L	0.040	0.025		X525019	SJN	06/23/25 08:54	
EPA 200.7	Magnesium	239	mg/L	0.500	0.090		X525019	SJN	06/23/25 08:54	
EPA 200.7	Manganese	124	mg/L	0.0800	0.0340	10	X525019	SJN	06/23/25 10:51	
EPA 200.7	Molybdenum	0.0131	mg/L	0.0080	0.0034		X525019	SJN	06/23/25 08:54	
EPA 200.7	Nickel	1.37	mg/L	0.0100	0.0048		X525019	SJN	06/23/25 08:54	
EPA 200.7	Potassium	3.91	mg/L	0.50	0.18		X525019	SJN	06/23/25 08:54	
EPA 200.7	Silver	0.0399	mg/L	0.0050	0.0019		X525019	SJN	06/23/25 08:54	
EPA 200.7	Sodium	37.5	mg/L	0.50	0.12		X525019	SJN	06/23/25 08:54	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X525019	SJN	06/23/25 08:54	E12
EPA 200.7	Zinc	29.1	mg/L	0.0100	0.0054		X525019	SJN	06/23/25 08:54	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X525061	SMU	06/23/25 15:09	
EPA 200.8	Arsenic	0.112	mg/L	0.00100	0.00021		X525061	SMU	06/23/25 15:09	
EPA 200.8	Selenium	0.00934	mg/L	0.00100	0.00024		X525061	SMU	06/23/25 15:09	
EPA 200.8	Thallium	< 0.00200	mg/L	0.00200	0.000800	10	X525061	SMU	06/23/25 16:22	D17
EPA 200.8	Uranium	0.933	mg/L	0.00100	0.000520	10	X525061	SMU	06/23/25 16:22	D17

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X524040	SJN	06/13/25 16:14	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X525072	ORW	06/19/25 19:22	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X525071	ORW	06/18/25 14:26	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X524182	JPM	06/17/25 13:54	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X525126	ORW	06/18/25 13:04	
SM 2310 B	Acidity to pH 8.3	2400	mg/L as CaCO3	10.0			X526010	MWD	06/23/25 11:27	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X525030	MWD	06/17/25 19:23	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X525030	MWD	06/17/25 19:23	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X525030	MWD	06/17/25 19:23	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X525030	MWD	06/17/25 19:23	
SM 2540 C	Total Diss. Solids	6380	mg/L	40			X524186	TJL	06/13/25 14:10	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X524187	TJL	06/16/25 08:10	
SM 4500 H B	pH @21.0°C	3.6	pH Units				X525030	MWD	06/17/25 19:23	H5

SVL holds the following certifications:

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

Work order Report Page 6 of 14



One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
(208) 784-1258
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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5F0170 Reported: 24-Jun-25 15:26
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Client Sample ID: **GVMW-25**
SVL Sample ID: **X5F0170-03 (Ground Water)**

Sampled: 10-Jun-25 13:00
Received: 11-Jun-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	27.0	mg/L	1.00	0.11	5	X524158	RS	06/11/25 22:13	
EPA 300.0	Fluoride	< 0.500	mg/L	0.500	0.085	5	X524158	RS	06/11/25 22:13	D18
EPA 300.0	Nitrate as N	0.444	mg/L	0.250	0.065	5	X524158	RS	06/11/25 22:13	D18
EPA 300.0	Nitrate+Nitrite as N	< 0.500	mg/L	0.500	0.220	5	X524158	RS	06/11/25 22:13	D18
EPA 300.0	Nitrite as N	< 0.250	mg/L	0.250	0.155	5	X524158	RS	06/11/25 22:13	D18
EPA 300.0	Sulfate as SO4	4360	mg/L	30.0	18.0	100	X524158	RS	06/11/25 22:28	

Cation/Anion Balance and TDS Ratios

Cation Sum: 90.7 meq/L	Anion Sum: 91.6 meq/L	C/A Balance: -0.51 %	Calculated TDS: 5085	TDS/cTDS: 1.25
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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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0170**

Reported: 24-Jun-25 15:26

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	X525188	19-Jun-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X525188	19-Jun-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X525188	19-Jun-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X525019	23-Jun-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X525019	23-Jun-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X525019	23-Jun-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X525019	23-Jun-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X525019	23-Jun-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X525019	23-Jun-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X525019	23-Jun-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X525019	23-Jun-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X525019	23-Jun-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X525019	23-Jun-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X525019	23-Jun-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X525019	23-Jun-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X525019	23-Jun-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X525019	23-Jun-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X525019	23-Jun-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X525019	23-Jun-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X525019	23-Jun-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X525019	23-Jun-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X525019	23-Jun-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X525019	23-Jun-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X525019	23-Jun-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X525061	23-Jun-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X525061	23-Jun-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X525061	23-Jun-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X525061	23-Jun-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X525061	23-Jun-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X524040	13-Jun-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X525072	19-Jun-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X525071	18-Jun-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X524182	17-Jun-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X525126	18-Jun-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X526010	23-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X525030	17-Jun-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X525030	17-Jun-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X525030	17-Jun-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X525030	17-Jun-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X524186	13-Jun-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X524187	16-Jun-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X524158	11-Jun-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X524158	11-Jun-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X524158	11-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X524158	11-Jun-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X524158	11-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X524158	11-Jun-25	

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0170**

Reported: 24-Jun-25 15:26

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	19.1	20.0	95	85 - 115	X525188	19-Jun-25	
EPA 200.7	Magnesium	mg/L	19.1	20.0	95.5	85 - 115	X525188	19-Jun-25	
EPA 200.7	Potassium	mg/L	19.3	20.0	96.4	85 - 115	X525188	19-Jun-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.02	1.00	102	85 - 115	X525019	23-Jun-25	
EPA 200.7	Barium	mg/L	1.02	1.00	102	85 - 115	X525019	23-Jun-25	
EPA 200.7	Beryllium	mg/L	1.02	1.00	102	85 - 115	X525019	23-Jun-25	
EPA 200.7	Boron	mg/L	1.03	1.00	103	85 - 115	X525019	23-Jun-25	
EPA 200.7	Cadmium	mg/L	0.986	1.00	98.6	85 - 115	X525019	23-Jun-25	
EPA 200.7	Calcium	mg/L	19.9	20.0	99.5	85 - 115	X525019	23-Jun-25	
EPA 200.7	Chromium	mg/L	1.02	1.00	102	85 - 115	X525019	23-Jun-25	
EPA 200.7	Cobalt	mg/L	0.971	1.00	97.1	85 - 115	X525019	23-Jun-25	
EPA 200.7	Copper	mg/L	0.977	1.00	97.7	85 - 115	X525019	23-Jun-25	
EPA 200.7	Iron	mg/L	10.1	10.0	101	85 - 115	X525019	23-Jun-25	
EPA 200.7	Lead	mg/L	0.985	1.00	98.5	85 - 115	X525019	23-Jun-25	
EPA 200.7	Lithium	mg/L	0.995	1.00	99.5	85 - 115	X525019	23-Jun-25	
EPA 200.7	Magnesium	mg/L	19.7	20.0	98.4	85 - 115	X525019	23-Jun-25	
EPA 200.7	Manganese	mg/L	1.01	1.00	101	85 - 115	X525019	23-Jun-25	
EPA 200.7	Molybdenum	mg/L	1.03	1.00	103	85 - 115	X525019	23-Jun-25	
EPA 200.7	Nickel	mg/L	0.974	1.00	97.4	85 - 115	X525019	23-Jun-25	
EPA 200.7	Potassium	mg/L	20.9	20.0	104	85 - 115	X525019	23-Jun-25	
EPA 200.7	Silver	mg/L	0.0506	0.0500	101	85 - 115	X525019	23-Jun-25	
EPA 200.7	Sodium	mg/L	19.2	19.0	101	85 - 115	X525019	23-Jun-25	
EPA 200.7	Vanadium	mg/L	1.03	1.00	103	85 - 115	X525019	23-Jun-25	
EPA 200.7	Zinc	mg/L	1.03	1.00	103	85 - 115	X525019	23-Jun-25	
EPA 200.8	Antimony	mg/L	0.0242	0.0250	96.8	85 - 115	X525061	23-Jun-25	
EPA 200.8	Arsenic	mg/L	0.0233	0.0250	93.0	85 - 115	X525061	23-Jun-25	
EPA 200.8	Selenium	mg/L	0.0236	0.0250	94.5	85 - 115	X525061	23-Jun-25	
EPA 200.8	Thallium	mg/L	0.0219	0.0250	87.6	85 - 115	X525061	23-Jun-25	
EPA 200.8	Uranium	mg/L	0.0228	0.0250	91.1	85 - 115	X525061	23-Jun-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00212	0.00200	106	85 - 115	X524040	13-Jun-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.101	0.100	101	90 - 110	X525072	19-Jun-25	
EPA 335.4	Cyanide (total)	mg/L	0.0957	0.100	95.7	90 - 110	X525071	18-Jun-25	
EPA 350.1	Ammonia as N	mg/L	0.960	1.00	96.0	90 - 110	X524182	17-Jun-25	
OIA 1677	Cyanide (WAD)	mg/L	0.103	0.100	103	90 - 110	X525126	18-Jun-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1160	1180	98.3	95.4 - 104	X526010	23-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	100	99.3	101	94 - 106	X525030	17-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.0	9.93	101	94 - 106	X525030	18-Jun-25	
SM 2540 C	Total Diss. Solids	mg/L	251	250	100	85 - 115	X524186	13-Jun-25	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X524187	16-Jun-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.00	3.00	100	90 - 110	X524158	11-Jun-25	
EPA 300.0	Fluoride	mg/L	1.90	2.00	94.8	90 - 110	X524158	11-Jun-25	
EPA 300.0	Nitrate as N	mg/L	1.97	2.00	98.4	90 - 110	X524158	11-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.53	4.50	101	90 - 110	X524158	11-Jun-25	
EPA 300.0	Nitrite as N	mg/L	2.56	2.50	102	90 - 110	X524158	11-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	10.3	10.0	103	90 - 110	X524158	11-Jun-25	

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0170**

Reported: 24-Jun-25 15:26

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	X526010 - X5F0162-01	23-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	69.5	69.5	0.0	20	X525030 - X5F0138-02	17-Jun-25	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	69.5	69.5	0.0	20	X525030 - X5F0138-02	17-Jun-25	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X525030 - X5F0138-02	17-Jun-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X525030 - X5F0138-02	17-Jun-25	
SM 2540 C	Total Diss. Solids	mg/L	181	183	1.1	10	X524186 - X5F0168-05	13-Jun-25	
SM 2540 C	Total Diss. Solids	mg/L	261	265	1.5	10	X524186 - X5F0167-01	13-Jun-25	
SM 2540 D	Total Susp. Solids	mg/L	11.0	24.0	74.3	10	X524187 - X5F0168-05	16-Jun-25	R2B
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X524187 - X5F0167-01	16-Jun-25	
SM 4500 H B	pH @20.7°C	pH Units	7.7	7.7	0.3	20	X525030 - X5F0138-02	17-Jun-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	365	350	20.0	77	70 - 130	X525188 - X5F0138-01	19-Jun-25	
EPA 200.7	Calcium	mg/L	417	399	20.0	91	70 - 130	X525188 - X5F0170-02	19-Jun-25	
EPA 200.7	Magnesium	mg/L	50.1	31.0	20.0	95.2	70 - 130	X525188 - X5F0138-01	19-Jun-25	
EPA 200.7	Magnesium	mg/L	378	360	20.0	87.4	70 - 130	X525188 - X5F0170-02	19-Jun-25	
EPA 200.7	Potassium	mg/L	29.6	9.75	20.0	99.4	70 - 130	X525188 - X5F0138-01	19-Jun-25	
EPA 200.7	Potassium	mg/L	22.0	1.09	20.0	105	70 - 130	X525188 - X5F0170-02	19-Jun-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.953	<0.080	1.00	95.3	70 - 130	X525019 - X5F0231-01	23-Jun-25	
EPA 200.7	Aluminum	mg/L	889	883	1.00	0.30R>S	70 - 130	X525019 - X5F0170-02	23-Jun-25	M4
EPA 200.7	Barium	mg/L	0.932	0.0102	1.00	92.1	70 - 130	X525019 - X5F0170-02	23-Jun-25	
EPA 200.7	Barium	mg/L	0.983	0.0049	1.00	97.8	70 - 130	X525019 - X5F0231-01	23-Jun-25	
EPA 200.7	Beryllium	mg/L	1.60	0.626	1.00	97.2	70 - 130	X525019 - X5F0170-02	23-Jun-25	
EPA 200.7	Beryllium	mg/L	0.959	<0.00200	1.00	95.9	70 - 130	X525019 - X5F0231-01	23-Jun-25	
EPA 200.7	Boron	mg/L	1.03	<0.0400	1.00	101	70 - 130	X525019 - X5F0170-02	23-Jun-25	
EPA 200.7	Boron	mg/L	0.991	<0.0400	1.00	99.1	70 - 130	X525019 - X5F0231-01	23-Jun-25	
EPA 200.7	Cadmium	mg/L	2.64	1.75	1.00	88.6	70 - 130	X525019 - X5F0170-02	23-Jun-25	
EPA 200.7	Cadmium	mg/L	0.945	<0.0020	1.00	94.5	70 - 130	X525019 - X5F0231-01	23-Jun-25	
EPA 200.7	Calcium	mg/L	421	400	20.0	106	70 - 130	X525019 - X5F0170-02	23-Jun-25	
EPA 200.7	Calcium	mg/L	28.9	9.73	20.0	95.7	70 - 130	X525019 - X5F0231-01	23-Jun-25	
EPA 200.7	Chromium	mg/L	1.09	0.168	1.00	92.6	70 - 130	X525019 - X5F0170-02	23-Jun-25	
EPA 200.7	Chromium	mg/L	0.973	<0.0060	1.00	97.3	70 - 130	X525019 - X5F0231-01	23-Jun-25	
EPA 200.7	Cobalt	mg/L	2.47	1.58	1.00	89.3	70 - 130	X525019 - X5F0170-02	23-Jun-25	
EPA 200.7	Cobalt	mg/L	0.927	<0.0060	1.00	92.7	70 - 130	X525019 - X5F0231-01	23-Jun-25	
EPA 200.7	Copper	mg/L	5.35	4.29	1.00	106	70 - 130	X525019 - X5F0170-02	23-Jun-25	
EPA 200.7	Copper	mg/L	0.913	<0.0100	1.00	91.3	70 - 130	X525019 - X5F0231-01	23-Jun-25	
EPA 200.7	Iron	mg/L	49.3	39.8	10.0	95.2	70 - 130	X525019 - X5F0170-02	23-Jun-25	
EPA 200.7	Iron	mg/L	9.66	<0.100	10.0	96.6	70 - 130	X525019 - X5F0231-01	23-Jun-25	
EPA 200.7	Lead	mg/L	0.929	0.0126	1.00	91.7	70 - 130	X525019 - X5F0170-02	23-Jun-25	
EPA 200.7	Lead	mg/L	0.944	<0.0075	1.00	94.4	70 - 130	X525019 - X5F0231-01	23-Jun-25	
EPA 200.7	Lithium	mg/L	1.63	0.332	1.00	130	70 - 130	X525019 - X5F0170-02	23-Jun-25	
EPA 200.7	Lithium	mg/L	0.935	<0.040	1.00	93.5	70 - 130	X525019 - X5F0231-01	23-Jun-25	
EPA 200.7	Magnesium	mg/L	388	367	20.0	108	70 - 130	X525019 - X5F0170-02	23-Jun-25	
EPA 200.7	Magnesium	mg/L	20.5	1.21	20.0	96.6	70 - 130	X525019 - X5F0231-01	23-Jun-25	

SVL holds the following certifications:

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

Work order Report Page 10 of 14

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0170**

Reported: 24-Jun-25 15:26

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	0.967	<0.0080	1.00	96.7	70 - 130	X525019 - X5F0231-01	23-Jun-25	
EPA 200.7	Manganese	mg/L	268	267	1.00	126	70 - 130	X525019 - X5F0170-02	23-Jun-25	
EPA 200.7	Molybdenum	mg/L	0.970	0.0291	1.00	94.1	70 - 130	X525019 - X5F0170-02	23-Jun-25	
EPA 200.7	Molybdenum	mg/L	0.978	<0.0080	1.00	97.8	70 - 130	X525019 - X5F0231-01	23-Jun-25	
EPA 200.7	Nickel	mg/L	3.58	2.69	1.00	89.3	70 - 130	X525019 - X5F0170-02	23-Jun-25	
EPA 200.7	Nickel	mg/L	0.930	<0.0100	1.00	93.0	70 - 130	X525019 - X5F0231-01	23-Jun-25	
EPA 200.7	Potassium	mg/L	19.5	<0.50	20.0	97.6	70 - 130	X525019 - X5F0170-02	23-Jun-25	
EPA 200.7	Potassium	mg/L	20.3	<0.50	20.0	101	70 - 130	X525019 - X5F0231-01	23-Jun-25	
EPA 200.7	Silver	mg/L	0.241	0.189	0.0500	105	70 - 130	X525019 - X5F0170-02	23-Jun-25	
EPA 200.7	Silver	mg/L	0.0482	<0.0050	0.0500	96.4	70 - 130	X525019 - X5F0231-01	23-Jun-25	
EPA 200.7	Sodium	mg/L	52.5	33.1	19.0	102	70 - 130	X525019 - X5F0170-02	23-Jun-25	
EPA 200.7	Sodium	mg/L	19.2	0.82	19.0	96.8	70 - 130	X525019 - X5F0231-01	23-Jun-25	
EPA 200.7	Vanadium	mg/L	0.200	<0.0050	1.00	20.0	70 - 130	X525019 - X5F0170-02	23-Jun-25	E12,M2
EPA 200.7	Vanadium	mg/L	0.985	<0.0050	1.00	98.5	70 - 130	X525019 - X5F0231-01	23-Jun-25	
EPA 200.7	Zinc	mg/L	1.00	<0.0100	1.00	100	70 - 130	X525019 - X5F0231-01	23-Jun-25	
EPA 200.7	Zinc	mg/L	78.1	77.1	1.00	99.7	70 - 130	X525019 - X5F0170-02	23-Jun-25	
EPA 200.8	Antimony	mg/L	0.0248	<0.00100	0.0250	99.0	70 - 130	X525061 - X5F0145-01	23-Jun-25	
EPA 200.8	Antimony	mg/L	0.0259	<0.00100	0.0250	104	70 - 130	X525061 - X5F0208-01	23-Jun-25	
EPA 200.8	Arsenic	mg/L	0.0334	0.00671	0.0250	107	70 - 130	X525061 - X5F0145-01	23-Jun-25	
EPA 200.8	Arsenic	mg/L	0.0272	<0.00100	0.0250	109	70 - 130	X525061 - X5F0208-01	23-Jun-25	
EPA 200.8	Selenium	mg/L	0.0286	0.00189	0.0250	107	70 - 130	X525061 - X5F0145-01	23-Jun-25	
EPA 200.8	Selenium	mg/L	0.0277	<0.00100	0.0250	111	70 - 130	X525061 - X5F0208-01	23-Jun-25	
EPA 200.8	Thallium	mg/L	0.0268	<0.000200	0.0250	107	70 - 130	X525061 - X5F0145-01	23-Jun-25	
EPA 200.8	Thallium	mg/L	0.0237	<0.000200	0.0250	94.8	70 - 130	X525061 - X5F0208-01	23-Jun-25	
EPA 200.8	Uranium	mg/L	0.0396	0.0116	0.0250	112	70 - 130	X525061 - X5F0145-01	23-Jun-25	
EPA 200.8	Uranium	mg/L	0.0241	<0.000100	0.0250	96.6	70 - 130	X525061 - X5F0208-01	23-Jun-25	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00216	<0.000200	0.00200	108	70 - 130	X524040 - X5F0101-01	13-Jun-25	
EPA 245.1	Mercury	mg/L	0.00214	<0.000200	0.00200	107	70 - 130	X524040 - X5F0145-01	13-Jun-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.105	<0.0050	0.100	105	79 - 121	X525072 - X5F0218-08	19-Jun-25	
EPA 335.4	Cyanide (total)	mg/L	0.102	<0.0050	0.100	102	90 - 110	X525071 - X5F0218-08	18-Jun-25	
EPA 335.4	Cyanide (total)	mg/L	0.0993	<0.0050	0.100	99.3	90 - 110	X525071 - X5F0218-06	18-Jun-25	
EPA 350.1	Ammonia as N	mg/L	1.01	<0.030	1.00	101	90 - 110	X524182 - X5F0197-02	17-Jun-25	
EPA 350.1	Ammonia as N	mg/L	1.37	0.378	1.00	99.4	90 - 110	X524182 - X5F0197-01	17-Jun-25	
OIA 1677	Cyanide (WAD)	mg/L	0.0121	<0.0050	0.100	12.1	82 - 118	X525126 - X5F0170-02	18-Jun-25	M2
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	5.15	2.26	3.00	96.3	90 - 110	X524158 - X5F0168-03	11-Jun-25	
EPA 300.0	Chloride	mg/L	5.95	2.94	3.00	100	90 - 110	X524158 - X5F0168-04	11-Jun-25	
EPA 300.0	Fluoride	mg/L	2.11	0.181	2.00	96.6	90 - 110	X524158 - X5F0168-03	11-Jun-25	
EPA 300.0	Fluoride	mg/L	2.08	0.130	2.00	97.5	90 - 110	X524158 - X5F0168-04	11-Jun-25	
EPA 300.0	Nitrate as N	mg/L	2.00	<0.050	2.00	99.0	90 - 110	X524158 - X5F0168-03	11-Jun-25	
EPA 300.0	Nitrate as N	mg/L	2.02	<0.050	2.00	100	90 - 110	X524158 - X5F0168-04	11-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.98	<0.100	4.00	99.6	90 - 110	X524158 - X5F0168-03	11-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.06	<0.100	4.00	102	90 - 110	X524158 - X5F0168-04	11-Jun-25	
EPA 300.0	Nitrite as N	mg/L	1.99	<0.050	2.00	99.3	90 - 110	X524158 - X5F0168-03	11-Jun-25	
EPA 300.0	Nitrite as N	mg/L	2.04	<0.050	2.00	102	90 - 110	X524158 - X5F0168-04	11-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	32.3	22.4	10.0	98.9	90 - 110	X524158 - X5F0168-03	11-Jun-25	

SVL holds the following certifications:

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

Work order Report Page 11 of 14

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82
Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5F0170**
Reported: 24-Jun-25 15:26

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	30.1	19.9	10.0	102	90 - 110	X524158 - X5F0168-04	11-Jun-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	360	365	20.0	2.0	20	0.30R>S	X525188 - X5F0138-01	M3
EPA 200.7	Magnesium	mg/L	49.8	50.1	20.0	0.5	20	94.0	X525188 - X5F0138-01	
EPA 200.7	Potassium	mg/L	29.4	29.6	20.0	0.7	20	98.4	X525188 - X5F0138-01	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	892	889	1.00	0.3	20	0.30R>S	X525019 - X5F0170-02	M4
EPA 200.7	Barium	mg/L	0.945	0.932	1.00	1.4	20	93.5	X525019 - X5F0170-02	
EPA 200.7	Beryllium	mg/L	1.60	1.60	1.00	0.2	20	97.5	X525019 - X5F0170-02	
EPA 200.7	Boron	mg/L	1.05	1.03	1.00	1.1	20	103	X525019 - X5F0170-02	
EPA 200.7	Cadmium	mg/L	2.65	2.64	1.00	0.6	20	90.0	X525019 - X5F0170-02	
EPA 200.7	Calcium	mg/L	420	421	20.0	0.3	20	98.5	X525019 - X5F0170-02	
EPA 200.7	Chromium	mg/L	1.10	1.09	1.00	0.5	20	93.1	X525019 - X5F0170-02	
EPA 200.7	Cobalt	mg/L	2.48	2.47	1.00	0.5	20	90.6	X525019 - X5F0170-02	
EPA 200.7	Copper	mg/L	5.34	5.35	1.00	0.3	20	105	X525019 - X5F0170-02	
EPA 200.7	Iron	mg/L	49.2	49.3	10.0	0.1	20	94.6	X525019 - X5F0170-02	
EPA 200.7	Lead	mg/L	0.942	0.929	1.00	1.3	20	92.9	X525019 - X5F0170-02	
EPA 200.7	Lithium	mg/L	1.65	1.63	1.00	1.1	20	132	X525019 - X5F0170-02	M1
EPA 200.7	Magnesium	mg/L	389	388	20.0	0.2	20	111	X525019 - X5F0170-02	
EPA 200.7	Manganese	mg/L	268	268	1.00	0.0	20	122	X525019 - X5F0170-02	
EPA 200.7	Molybdenum	mg/L	0.983	0.970	1.00	1.4	20	95.4	X525019 - X5F0170-02	
EPA 200.7	Nickel	mg/L	3.59	3.58	1.00	0.4	20	90.9	X525019 - X5F0170-02	
EPA 200.7	Potassium	mg/L	19.7	19.5	20.0	1.1	20	98.7	X525019 - X5F0170-02	
EPA 200.7	Silver	mg/L	0.242	0.241	0.0500	0.3	20	106	X525019 - X5F0170-02	
EPA 200.7	Sodium	mg/L	52.6	52.5	19.0	0.2	20	103	X525019 - X5F0170-02	
EPA 200.7	Vanadium	mg/L	0.208	0.200	1.00	3.9	20	20.8	X525019 - X5F0170-02	E12,M2
EPA 200.7	Zinc	mg/L	78.7	78.1	1.00	0.9	20	0.30R>S	X525019 - X5F0170-02	M4
EPA 200.8	Antimony	mg/L	0.0256	0.0248	0.0250	3.4	20	103	X525061 - X5F0145-01	
EPA 200.8	Arsenic	mg/L	0.0343	0.0334	0.0250	2.6	20	110	X525061 - X5F0145-01	
EPA 200.8	Selenium	mg/L	0.0299	0.0286	0.0250	4.4	20	112	X525061 - X5F0145-01	
EPA 200.8	Thallium	mg/L	0.0281	0.0268	0.0250	4.7	20	112	X525061 - X5F0145-01	
EPA 200.8	Uranium	mg/L	0.0411	0.0396	0.0250	3.7	20	118	X525061 - X5F0145-01	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00221	0.00216	0.00200	2.4	20	111	X524040 - X5F0101-01	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.105	0.105	0.100	0.2	11	105	X525072 - X5F0218-08	
EPA 335.4	Cyanide (total)	mg/L	0.102	0.102	0.100	0.4	20	102	X525071 - X5F0218-08	
EPA 350.1	Ammonia as N	mg/L	1.03	1.01	1.00	2.1	20	103	X524182 - X5F0197-02	
OIA 1677	Cyanide (WAD)	mg/L	0.0127	0.0121	0.100	4.8	11	12.7	X525126 - X5F0170-02	M2

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	5.22	5.15	3.00	1.4	20	98.7	X524158 - X5F0168-03	
EPA 300.0	Fluoride	mg/L	2.13	2.11	2.00	0.6	20	97.2	X524158 - X5F0168-03	
EPA 300.0	Nitrate as N	mg/L	2.04	2.00	2.00	2.0	20	101	X524158 - X5F0168-03	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.06	3.98	4.00	1.8	20	101	X524158 - X5F0168-03	
EPA 300.0	Nitrite as N	mg/L	2.02	1.99	2.00	1.7	20	101	X524158 - X5F0168-03	

SVL holds the following certifications:

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

Work order Report Page 12 of 14



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

Cripple Creek & Victor Gold Mining Company					Project Name: Cripple Creek/Victor Water and Soil 2024				
Ironclad Security 1632 County Rd 82					Work Order: X5F0170				
Cripple Creek, CO 80813					Reported: 24-Jun-25 15:26				

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	32.2	32.3	10.0	0.5	20	97.4	X524158 - X5F0168-03	

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0170**

Reported: 24-Jun-25 15:26

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.
E12	The reported value is estimated due to the presence of interferents.
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.
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.
Q5C	After two pH adjustments, the method-specified pH was not achieved.
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**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0102**

Reported: 25-Jun-25 16:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-26B	X5F0102-01	Ground Water	04-Jun-25 12:38	TR	06-Jun-2025	
GVMW-26A	X5F0102-02	Ground Water	04-Jun-25 13:20	TR	06-Jun-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: X5F0102

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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(208) 784-1258
www.svl.net

Cripple Creek & Victor Gold Mining Company
Ironclad Security 1632 County Rd 82
Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X5F0102**
Reported: 25-Jun-25 16:35

Client Sample ID: **GVMW-26B**
SVL Sample ID: **X5F0102-01 (Ground Water)**

Sampled: 04-Jun-25 12:38
Received: 06-Jun-25
Sampled By: TR

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	10.3	mg/L	0.100	0.069		X525112	JRR	06/18/25 09:22	
EPA 200.7	Magnesium	2.12	mg/L	0.500	0.090		X525112	JRR	06/18/25 09:22	
EPA 200.7	Potassium	0.80	mg/L	0.50	0.18		X525112	JRR	06/18/25 09:22	
SM 2340 B	Hardness (as CaCO3)	34.5	mg/L	2.31	0.543		N/A		06/12/25 10:29	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X524077	JRR	06/12/25 10:29	
EPA 200.7	Barium	0.108	mg/L	0.0020	0.0019		X524077	JRR	06/12/25 10:29	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X524077	JRR	06/12/25 10:29	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X524077	JRR	06/12/25 10:29	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X524077	JRR	06/12/25 10:29	
EPA 200.7	Calcium	10.7	mg/L	0.100	0.069		X524077	JRR	06/12/25 10:29	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X524077	JRR	06/12/25 10:29	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X524077	JRR	06/12/25 10:29	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X524077	JRR	06/12/25 10:29	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X524077	JRR	06/12/25 10:29	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X524077	JRR	06/12/25 10:29	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X524077	JRR	06/12/25 10:29	
EPA 200.7	Magnesium	2.26	mg/L	0.500	0.090		X524077	JRR	06/12/25 10:29	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X524077	JRR	06/12/25 10:29	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X524077	JRR	06/12/25 10:29	
EPA 200.7	Nickel	0.0110	mg/L	0.0100	0.0048		X524077	JRR	06/12/25 10:29	
EPA 200.7	Potassium	0.86	mg/L	0.50	0.18		X524077	JRR	06/12/25 10:29	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X524077	JRR	06/12/25 10:29	
EPA 200.7	Sodium	9.99	mg/L	0.50	0.12		X524077	JRR	06/12/25 10:29	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X524077	JRR	06/12/25 10:29	
EPA 200.7	Zinc	0.0133	mg/L	0.0100	0.0054		X524077	JRR	06/12/25 10:29	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X524162	SMU	06/16/25 18:34	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X524162	SMU	06/16/25 18:34	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X524162	SMU	06/16/25 18:34	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X524162	SMU	06/16/25 18:34	
EPA 200.8	Uranium	0.000102	mg/L	0.000100	0.000052		X524162	SMU	06/16/25 18:34	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X524040	SJN	06/13/25 15:40	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X524067	JPM	06/11/25 09:37	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X524065	ORW	06/11/25 11:00	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X524181	ORW	06/13/25 15:40	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X524109	ORW	06/12/25 11:50	
SM 2310 B	Acidity to pH 8.3	-33.3	mg/L as CaCO3	10.0			X524117	MWD	06/11/25 12:25	
SM 2320 B	Total Alkalinity	33.9	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 18:18	
SM 2320 B	Bicarbonate	33.9	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 18:18	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 18:18	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 18:18	
SM 2540 C	Total Diss. Solids	83	mg/L	10			X523241	TJL	06/11/25 13:15	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X523242	TJL	06/12/25 14:50	
SM 4500 H B	pH @24.1°C	6.7	pH Units				X524081	MWD	06/10/25 18:18	H5



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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5F0102 Reported: 25-Jun-25 16:35
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Client Sample ID: **GVMW-26B**
SVL Sample ID: **X5F0102-01 (Ground Water)**

Sampled: 04-Jun-25 12:38
Received: 06-Jun-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	1.97	mg/L	0.20	0.02		X523229	RS	06/06/25 11:33	
EPA 300.0	Fluoride	0.219	mg/L	0.100	0.017		X523229	RS	06/06/25 11:33	
EPA 300.0	Nitrate as N	0.836	mg/L	0.050	0.013		X523229	RS	06/06/25 11:33	
EPA 300.0	Nitrate+Nitrite as N	0.861	mg/L	0.100	0.044		X523229	RS	06/06/25 11:33	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X523229	RS	06/06/25 11:33	
EPA 300.0	Sulfate as SO4	20.6	mg/L	0.30	0.18		X523229	RS	06/06/25 11:33	

Cation/Anion Balance and TDS Ratios										
Cation Sum: 1.16 meq/L		Anion Sum: 1.23 meq/L		C/A Balance: -3.20 %		Calculated TDS: 70		TDS/cTDS: 1.18		

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

Kristi A. Groth

Kristi A. Groth
Project Manager

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0102**

Reported: 25-Jun-25 16:35

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

Sampled: 04-Jun-25 13:20

Received: 06-Jun-25

Sampled By: TR

SVL Sample ID: **X5F0102-02 (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	28.4	mg/L	0.100	0.069		X525112	JRR	06/18/25 09:33	
EPA 200.7	Magnesium	6.48	mg/L	0.500	0.090		X525112	JRR	06/18/25 09:33	
EPA 200.7	Potassium	0.91	mg/L	0.50	0.18		X525112	JRR	06/18/25 09:33	
SM 2340 B	Hardness (as CaCO3)	97.6	mg/L	2.31	0.543		N/A		06/12/25 10:30	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X524077	JRR	06/12/25 10:30	
EPA 200.7	Barium	0.203	mg/L	0.0020	0.0019		X524077	JRR	06/12/25 10:30	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X524077	JRR	06/12/25 10:30	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X524077	JRR	06/12/25 10:30	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X524077	JRR	06/12/25 10:30	
EPA 200.7	Calcium	29.6	mg/L	0.100	0.069		X524077	JRR	06/12/25 10:30	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X524077	JRR	06/12/25 10:30	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X524077	JRR	06/12/25 10:30	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X524077	JRR	06/12/25 10:30	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X524077	JRR	06/12/25 10:30	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X524077	JRR	06/12/25 10:30	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X524077	JRR	06/12/25 10:30	
EPA 200.7	Magnesium	6.85	mg/L	0.500	0.090		X524077	JRR	06/12/25 10:30	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X524077	JRR	06/12/25 10:30	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X524077	JRR	06/12/25 10:30	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X524077	JRR	06/12/25 10:30	
EPA 200.7	Potassium	0.98	mg/L	0.50	0.18		X524077	JRR	06/12/25 10:30	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X524077	JRR	06/12/25 10:30	
EPA 200.7	Sodium	31.0	mg/L	0.50	0.12		X524077	JRR	06/12/25 10:30	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X524077	JRR	06/12/25 10:30	
EPA 200.7	Zinc	0.0156	mg/L	0.0100	0.0054		X524077	JRR	06/12/25 10:30	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X524162	SMU	06/16/25 18:40	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X524162	SMU	06/16/25 18:40	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X524162	SMU	06/16/25 18:40	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X524162	SMU	06/16/25 18:40	
EPA 200.8	Uranium	0.00337	mg/L	0.000100	0.000052		X524162	SMU	06/16/25 18:40	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X524040	SJN	06/13/25 15:42	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X524067	JPM	06/11/25 09:40	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X524065	ORW	06/11/25 11:02	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X524181	ORW	06/13/25 15:43	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X524109	ORW	06/12/25 12:05	
SM 2310 B	Acidity to pH 8.3	-158	mg/L as CaCO3	10.0			X524117	MWD	06/11/25 12:25	
SM 2320 B	Total Alkalinity	155	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 18:22	
SM 2320 B	Bicarbonate	155	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 18:22	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 18:22	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 18:22	
SM 2540 C	Total Diss. Solids	179	mg/L	10			X523241	TJL	06/11/25 13:15	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X523242	TJL	06/12/25 14:50	
SM 4500 H B	pH @24.2°C	8.0	pH Units				X524081	MWD	06/10/25 18:22	H5

SVL holds the following certifications:

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

Work order Report Page 4 of 12



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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5F0102 Reported: 25-Jun-25 16:35
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Client Sample ID: **GVMW-26A**
SVL Sample ID: **X5F0102-02 (Ground Water)**

Sampled: 04-Jun-25 13:20
Received: 06-Jun-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	1.34	mg/L	0.20	0.02		X523229	RS	06/06/25 11:49	
EPA 300.0	Chloride	1.29	mg/L	0.20	0.02		X526039	RS	06/23/25 11:55	
EPA 300.0	Chloride	1.35	mg/L	0.20	0.02		X526039	RS	06/23/25 12:10	
EPA 300.0	Fluoride	2.03	mg/L	0.100	0.017		X523229	RS	06/06/25 11:49	
EPA 300.0	Fluoride	1.91	mg/L	0.100	0.017		X526039	RS	06/23/25 11:55	
EPA 300.0	Fluoride	1.89	mg/L	0.100	0.017		X526039	RS	06/23/25 12:10	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X523229	RS	06/06/25 11:49	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X526039	RS	06/23/25 11:55	H3
EPA 300.0	Nitrate as N	0.051	mg/L	0.050	0.013		X526039	RS	06/23/25 12:10	H3
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X523229	RS	06/06/25 11:49	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X526039	RS	06/23/25 11:55	H3
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X526039	RS	06/23/25 12:10	H3
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X523229	RS	06/06/25 11:49	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X526039	RS	06/23/25 11:55	H3
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X526039	RS	06/23/25 12:10	H3
EPA 300.0	Sulfate as SO4	15.1	mg/L	0.30	0.18		X523229	RS	06/06/25 11:49	
EPA 300.0	Sulfate as SO4	13.9	mg/L	0.30	0.18		X526039	RS	06/23/25 11:55	
EPA 300.0	Sulfate as SO4	14.2	mg/L	0.30	0.18		X526039	RS	06/23/25 12:10	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.34 meq/L

Anion Sum: 3.53 meq/L

C/A Balance: -2.72 %

Calculated TDS: 178

TDS/cTDS: 1.00

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**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0102**

Reported: 25-Jun-25 16:35

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	X525112	18-Jun-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X525112	18-Jun-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X525112	18-Jun-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X524077	12-Jun-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X524077	12-Jun-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X524077	12-Jun-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X524077	12-Jun-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X524077	12-Jun-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X524077	12-Jun-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X524077	12-Jun-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X524077	12-Jun-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X524077	12-Jun-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X524077	12-Jun-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X524077	12-Jun-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X524077	12-Jun-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X524077	12-Jun-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X524077	12-Jun-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X524077	12-Jun-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X524077	12-Jun-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X524077	12-Jun-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X524077	12-Jun-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X524077	12-Jun-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X524077	12-Jun-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X524077	12-Jun-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X524162	16-Jun-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X524162	16-Jun-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X524162	16-Jun-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X524162	16-Jun-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X524162	16-Jun-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X524040	13-Jun-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X524067	11-Jun-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X524065	11-Jun-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X524181	13-Jun-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X524109	12-Jun-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X524117	11-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X524081	10-Jun-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X524081	10-Jun-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X524081	10-Jun-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X524081	10-Jun-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X523241	11-Jun-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X523242	12-Jun-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X523229	06-Jun-25	
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X526039	25-Jun-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X523229	06-Jun-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X526039	23-Jun-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X523229	06-Jun-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X526039	23-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X523229	06-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X526039	23-Jun-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X523229	06-Jun-25	

SVL holds the following certifications:

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

Work order Report Page 6 of 12

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0102**

Reported: 25-Jun-25 16:35

Quality Control - BLANK Data (Continued)

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
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Anions by Ion Chromatography (Continued)

EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X526039	23-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X523229	06-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X526039	23-Jun-25	

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	19.0	20.0	95	85 - 115	X525112	18-Jun-25	
EPA 200.7	Magnesium	mg/L	19.0	20.0	95.0	85 - 115	X525112	18-Jun-25	
EPA 200.7	Potassium	mg/L	19.1	20.0	95.3	85 - 115	X525112	18-Jun-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.947	1.00	94.7	85 - 115	X524077	12-Jun-25	
EPA 200.7	Barium	mg/L	0.975	1.00	97.5	85 - 115	X524077	12-Jun-25	
EPA 200.7	Beryllium	mg/L	0.945	1.00	94.5	85 - 115	X524077	12-Jun-25	
EPA 200.7	Boron	mg/L	0.987	1.00	98.7	85 - 115	X524077	12-Jun-25	
EPA 200.7	Cadmium	mg/L	0.944	1.00	94.4	85 - 115	X524077	12-Jun-25	
EPA 200.7	Calcium	mg/L	19.0	20.0	94.9	85 - 115	X524077	12-Jun-25	
EPA 200.7	Chromium	mg/L	0.957	1.00	95.7	85 - 115	X524077	12-Jun-25	
EPA 200.7	Cobalt	mg/L	0.925	1.00	92.5	85 - 115	X524077	12-Jun-25	
EPA 200.7	Copper	mg/L	0.940	1.00	94.0	85 - 115	X524077	12-Jun-25	
EPA 200.7	Iron	mg/L	9.63	10.0	96.3	85 - 115	X524077	12-Jun-25	
EPA 200.7	Lead	mg/L	0.940	1.00	94.0	85 - 115	X524077	12-Jun-25	
EPA 200.7	Lithium	mg/L	0.907	1.00	90.7	85 - 115	X524077	12-Jun-25	
EPA 200.7	Magnesium	mg/L	19.2	20.0	95.9	85 - 115	X524077	12-Jun-25	
EPA 200.7	Manganese	mg/L	0.949	1.00	94.9	85 - 115	X524077	12-Jun-25	
EPA 200.7	Molybdenum	mg/L	0.950	1.00	95.0	85 - 115	X524077	12-Jun-25	
EPA 200.7	Nickel	mg/L	0.932	1.00	93.2	85 - 115	X524077	12-Jun-25	
EPA 200.7	Potassium	mg/L	19.3	20.0	96.5	85 - 115	X524077	12-Jun-25	
EPA 200.7	Silver	mg/L	0.0494	0.0500	98.8	85 - 115	X524077	12-Jun-25	
EPA 200.7	Sodium	mg/L	18.1	19.0	95.5	85 - 115	X524077	12-Jun-25	
EPA 200.7	Vanadium	mg/L	0.969	1.00	96.9	85 - 115	X524077	12-Jun-25	
EPA 200.7	Zinc	mg/L	0.990	1.00	99.0	85 - 115	X524077	12-Jun-25	
EPA 200.8	Antimony	mg/L	0.0272	0.0250	109	85 - 115	X524162	16-Jun-25	
EPA 200.8	Arsenic	mg/L	0.0281	0.0250	112	85 - 115	X524162	16-Jun-25	
EPA 200.8	Selenium	mg/L	0.0285	0.0250	114	85 - 115	X524162	16-Jun-25	
EPA 200.8	Thallium	mg/L	0.0260	0.0250	104	85 - 115	X524162	16-Jun-25	
EPA 200.8	Uranium	mg/L	0.0265	0.0250	106	85 - 115	X524162	16-Jun-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00212	0.00200	106	85 - 115	X524040	13-Jun-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.102	0.100	102	90 - 110	X524067	11-Jun-25	
EPA 335.4	Cyanide (total)	mg/L	0.104	0.100	104	90 - 110	X524065	11-Jun-25	
EPA 350.1	Ammonia as N	mg/L	0.993	1.00	99.3	90 - 110	X524181	13-Jun-25	
OIA 1677	Cyanide (WAD)	mg/L	0.101	0.100	101	90 - 110	X524109	12-Jun-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1150	1180	97.7	95.4 - 104	X524117	11-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.60	9.93	96.7	94 - 106	X524081	10-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	99.1	99.3	99.8	94 - 106	X524081	10-Jun-25	
SM 2540 C	Total Diss. Solids	mg/L	255	250	102	85 - 115	X523241	11-Jun-25	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X523242	12-Jun-25	

SVL holds the following certifications:

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

Work order Report Page 7 of 12

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0102**

Reported: 25-Jun-25 16:35

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									
EPA 300.0	Chloride	mg/L	3.17	3.00	106	90 - 110	X523229	06-Jun-25	
EPA 300.0	Chloride	mg/L	2.99	3.00	99.6	90 - 110	X526039	23-Jun-25	
EPA 300.0	Fluoride	mg/L	2.10	2.00	105	90 - 110	X523229	06-Jun-25	
EPA 300.0	Fluoride	mg/L	1.96	2.00	98.1	90 - 110	X526039	23-Jun-25	
EPA 300.0	Nitrate as N	mg/L	2.12	2.00	106	90 - 110	X523229	06-Jun-25	
EPA 300.0	Nitrate as N	mg/L	1.98	2.00	99.1	90 - 110	X526039	23-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.78	4.50	106	90 - 110	X523229	06-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.52	4.50	100	90 - 110	X526039	23-Jun-25	
EPA 300.0	Nitrite as N	mg/L	2.65	2.50	106	90 - 110	X523229	06-Jun-25	
EPA 300.0	Nitrite as N	mg/L	2.54	2.50	102	90 - 110	X526039	23-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	10.6	10.0	106	90 - 110	X523229	06-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	9.64	10.0	96.4	90 - 110	X526039	23-Jun-25	

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 CaCO3	106000	106000	0.0	20	X524117 - X5E0481-01	11-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	123	123	0.0	20	X524081 - X5E0457-02	10-Jun-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	123	123	0.0	20	X524081 - X5E0457-02	10-Jun-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X524081 - X5E0457-02	10-Jun-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X524081 - X5E0457-02	10-Jun-25	
SM 2540 C	Total Diss. Solids	mg/L	196	179	9.1	10	X523241 - X5F0102-02	11-Jun-25	
SM 2540 C	Total Diss. Solids	mg/L	315	317	0.6	10	X523241 - X5F0114-02	11-Jun-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X523242 - X5F0102-02	12-Jun-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X523242 - X5F0114-02	12-Jun-25	
SM 4500 H B	pH @23.5°C	pH Units	8.2	8.2	0.1	20	X524081 - X5E0457-02	10-Jun-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	29.1	10.3	20.0	94	70 - 130	X525112 - X5F0102-01	18-Jun-25	
EPA 200.7	Calcium	mg/L	57.3	38.3	20.0	95	70 - 130	X525112 - X5F0110-06	18-Jun-25	
EPA 200.7	Magnesium	mg/L	21.1	2.12	20.0	95.1	70 - 130	X525112 - X5F0102-01	18-Jun-25	
EPA 200.7	Magnesium	mg/L	40.7	21.2	20.0	97.4	70 - 130	X525112 - X5F0110-06	18-Jun-25	
EPA 200.7	Potassium	mg/L	19.7	0.80	20.0	94.3	70 - 130	X525112 - X5F0102-01	18-Jun-25	
EPA 200.7	Potassium	mg/L	20.8	1.99	20.0	94.2	70 - 130	X525112 - X5F0110-06	18-Jun-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.976	<0.080	1.00	97.6	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Aluminum	mg/L	0.980	<0.080	1.00	98.0	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Barium	mg/L	1.17	0.208	1.00	96.4	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Barium	mg/L	1.03	0.0530	1.00	97.7	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Beryllium	mg/L	0.955	<0.00200	1.00	95.5	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Beryllium	mg/L	0.943	<0.00200	1.00	94.3	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Boron	mg/L	1.02	<0.0400	1.00	101	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Boron	mg/L	1.03	<0.0400	1.00	101	70 - 130	X524077 - X5F0110-05	12-Jun-25	

SVL holds the following certifications:

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

Work order Report Page 8 of 12



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Cripple Creek & Victor Gold Mining Company

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5F0102**

Reported: 25-Jun-25 16:35

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	Cadmium	mg/L	0.946	<0.0020	1.00	94.6	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Cadmium	mg/L	0.949	<0.0020	1.00	94.9	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Calcium	mg/L	65.7	46.7	20.0	94.9	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Calcium	mg/L	39.5	20.3	20.0	96.1	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Chromium	mg/L	0.959	<0.0060	1.00	95.9	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Chromium	mg/L	0.962	<0.0060	1.00	96.2	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Cobalt	mg/L	0.917	<0.0060	1.00	91.7	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Cobalt	mg/L	0.953	0.0297	1.00	92.3	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Copper	mg/L	0.932	<0.0100	1.00	93.2	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Copper	mg/L	0.958	<0.0100	1.00	95.8	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Iron	mg/L	11.0	1.27	10.0	97.2	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Iron	mg/L	43.0	33.8	10.0	92.2	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Lead	mg/L	0.941	<0.0075	1.00	94.1	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Lead	mg/L	0.942	<0.0075	1.00	94.2	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Lithium	mg/L	0.970	<0.040	1.00	97.0	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Lithium	mg/L	0.987	<0.040	1.00	98.7	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Magnesium	mg/L	41.6	21.5	20.0	100	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Magnesium	mg/L	38.6	18.5	20.0	101	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Manganese	mg/L	1.18	0.237	1.00	94.5	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Manganese	mg/L	2.87	1.93	1.00	93.5	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Molybdenum	mg/L	0.958	<0.0080	1.00	95.8	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Molybdenum	mg/L	0.955	<0.0080	1.00	95.5	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Nickel	mg/L	0.926	<0.0100	1.00	92.0	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Nickel	mg/L	0.993	0.0709	1.00	92.2	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Potassium	mg/L	20.7	1.05	20.0	98.2	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Potassium	mg/L	21.7	1.91	20.0	99.0	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Silver	mg/L	0.0499	<0.0050	0.0500	99.8	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Silver	mg/L	0.0499	<0.0050	0.0500	99.8	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Sodium	mg/L	28.4	10.2	19.0	95.8	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Sodium	mg/L	31.8	13.5	19.0	96.4	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Vanadium	mg/L	0.973	<0.0050	1.00	97.3	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Vanadium	mg/L	0.980	<0.0050	1.00	98.0	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Zinc	mg/L	1.02	0.0128	1.00	101	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Zinc	mg/L	1.27	0.266	1.00	101	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.8	Antimony	mg/L	0.0275	<0.00100	0.0250	110	70 - 130	X524162 - X5F0052-01	16-Jun-25	
EPA 200.8	Antimony	mg/L	0.0276	<0.00100	0.0250	110	70 - 130	X524162 - X5F0110-04	16-Jun-25	
EPA 200.8	Arsenic	mg/L	0.0289	<0.00100	0.0250	115	70 - 130	X524162 - X5F0052-01	16-Jun-25	
EPA 200.8	Arsenic	mg/L	0.0296	<0.00100	0.0250	117	70 - 130	X524162 - X5F0110-04	16-Jun-25	
EPA 200.8	Selenium	mg/L	0.0318	0.00117	0.0250	122	70 - 130	X524162 - X5F0052-01	16-Jun-25	
EPA 200.8	Selenium	mg/L	0.0312	<0.00100	0.0250	121	70 - 130	X524162 - X5F0110-04	16-Jun-25	
EPA 200.8	Thallium	mg/L	0.0274	<0.000200	0.0250	110	70 - 130	X524162 - X5F0052-01	16-Jun-25	
EPA 200.8	Thallium	mg/L	0.0277	<0.000200	0.0250	111	70 - 130	X524162 - X5F0110-04	16-Jun-25	
EPA 200.8	Uranium	mg/L	0.0292	0.000462	0.0250	115	70 - 130	X524162 - X5F0052-01	16-Jun-25	
EPA 200.8	Uranium	mg/L	0.0346	0.00547	0.0250	117	70 - 130	X524162 - X5F0110-04	16-Jun-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00216	<0.000200	0.00200	108	70 - 130	X524040 - X5F0101-01	13-Jun-25	
EPA 245.1	Mercury	mg/L	0.00214	<0.000200	0.00200	107	70 - 130	X524040 - X5F0145-01	13-Jun-25	

SVL holds the following certifications:

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

Work order Report Page 9 of 12

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82
Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0102**

Reported: 25-Jun-25 16:35

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
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.106	<0.0050	0.100	106	79 - 121	X524067 - X5F0116-03	11-Jun-25	
EPA 335.4	Cyanide (total)	mg/L	0.106	<0.0050	0.100	106	90 - 110	X524065 - X5F0116-03	11-Jun-25	
EPA 335.4	Cyanide (total)	mg/L	0.106	<0.0050	0.100	106	90 - 110	X524065 - X5F0112-01	11-Jun-25	
EPA 350.1	Ammonia as N	mg/L	0.948	<0.030	1.00	94.8	90 - 110	X524181 - X5F0102-02	13-Jun-25	
EPA 350.1	Ammonia as N	mg/L	0.915	<0.030	1.00	91.5	90 - 110	X524181 - X5F0110-02	13-Jun-25	
OIA 1677	Cyanide (WAD)	mg/L	0.103	<0.0050	0.100	103	82 - 118	X524109 - X5F0052-02	12-Jun-25	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	24.3	20.3	3.00	0.30R>S	90 - 110	X523229 - X5F0089-02	06-Jun-25	M4
EPA 300.0	Chloride	mg/L	66.5	64.0	3.00	0.30R>S	90 - 110	X523229 - X5F0110-02	06-Jun-25	M4
EPA 300.0	Chloride	mg/L	11.9	9.02	3.00	96.6	90 - 110	X526039 - X5F0366-02	24-Jun-25	
EPA 300.0	Chloride	mg/L	11.1	8.06	3.00	99.7	90 - 110	X526039 - X5F0366-04	24-Jun-25	
EPA 300.0	Fluoride	mg/L	2.45	0.418	2.00	102	90 - 110	X523229 - X5F0089-02	06-Jun-25	
EPA 300.0	Fluoride	mg/L	4.06	1.97	2.00	105	90 - 110	X523229 - X5F0110-02	06-Jun-25	
EPA 300.0	Fluoride	mg/L	2.25	0.535	2.00	85.9	90 - 110	X526039 - X5F0366-02	24-Jun-25	M2
EPA 300.0	Fluoride	mg/L	1.99	0.281	2.00	85.6	90 - 110	X526039 - X5F0366-04	24-Jun-25	M2
EPA 300.0	Nitrate as N	mg/L	2.11	<0.050	2.00	104	90 - 110	X523229 - X5F0089-02	06-Jun-25	
EPA 300.0	Nitrate as N	mg/L	3.49	1.36	2.00	106	90 - 110	X523229 - X5F0110-02	06-Jun-25	
EPA 300.0	Nitrate as N	mg/L	2.21	0.186	2.00	101	90 - 110	X526039 - X5F0366-02	24-Jun-25	
EPA 300.0	Nitrate as N	mg/L	2.56	0.506	2.00	103	90 - 110	X526039 - X5F0366-04	24-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.18	<0.100	4.00	104	90 - 110	X523229 - X5F0089-02	06-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	5.59	1.36	4.00	106	90 - 110	X523229 - X5F0110-02	06-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.22	0.254	4.00	99.1	90 - 110	X526039 - X5F0366-02	24-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.62	0.506	4.00	103	90 - 110	X526039 - X5F0366-04	24-Jun-25	
EPA 300.0	Nitrite as N	mg/L	2.07	<0.050	2.00	103	90 - 110	X523229 - X5F0089-02	06-Jun-25	
EPA 300.0	Nitrite as N	mg/L	2.11	<0.050	2.00	105	90 - 110	X523229 - X5F0110-02	06-Jun-25	
EPA 300.0	Nitrite as N	mg/L	2.01	<0.050	2.00	100	90 - 110	X526039 - X5F0366-02	24-Jun-25	
EPA 300.0	Nitrite as N	mg/L	2.06	<0.050	2.00	103	90 - 110	X526039 - X5F0366-04	24-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	108	95.3	10.0	0.30R>S	90 - 110	X523229 - X5F0089-02	06-Jun-25	M4
EPA 300.0	Sulfate as SO4	mg/L	75.8	68.5	10.0	0.30R>S	90 - 110	X523229 - X5F0110-02	06-Jun-25	M4
EPA 300.0	Sulfate as SO4	mg/L	471	475	10.0	0.30R>S	90 - 110	X526039 - X5F0366-02	24-Jun-25	M4
EPA 300.0	Sulfate as SO4	mg/L	690	705	10.0	0.30R>S	90 - 110	X526039 - X5F0366-04	24-Jun-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	29.1	29.1	20.0	0.0	20	94	X525112 - X5F0102-01	
EPA 200.7	Magnesium	mg/L	21.1	21.1	20.0	0.0	20	95.1	X525112 - X5F0102-01	
EPA 200.7	Potassium	mg/L	19.6	19.7	20.0	0.0	20	94.2	X525112 - X5F0102-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.981	0.976	1.00	0.5	20	98.1	X524077 - X5F0052-03	
EPA 200.7	Barium	mg/L	1.18	1.17	1.00	0.7	20	97.2	X524077 - X5F0052-03	
EPA 200.7	Beryllium	mg/L	0.955	0.955	1.00	0.0	20	95.5	X524077 - X5F0052-03	
EPA 200.7	Boron	mg/L	1.02	1.02	1.00	0.8	20	101	X524077 - X5F0052-03	
EPA 200.7	Cadmium	mg/L	0.946	0.946	1.00	0.0	20	94.6	X524077 - X5F0052-03	
EPA 200.7	Calcium	mg/L	65.6	65.7	20.0	0.2	20	94.2	X524077 - X5F0052-03	
EPA 200.7	Chromium	mg/L	0.962	0.959	1.00	0.4	20	96.2	X524077 - X5F0052-03	

SVL holds the following certifications:

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

Work order Report Page 10 of 12

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0102**

Reported: 25-Jun-25 16:35

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
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Metals (Dissolved) (Continued)

EPA 200.7	Cobalt	mg/L	0.918	0.917	1.00	0.1	20	91.8	X524077 - X5F0052-03	
EPA 200.7	Copper	mg/L	0.938	0.932	1.00	0.6	20	93.8	X524077 - X5F0052-03	
EPA 200.7	Iron	mg/L	11.0	11.0	10.0	0.0	20	97.2	X524077 - X5F0052-03	
EPA 200.7	Lead	mg/L	0.944	0.941	1.00	0.3	20	94.4	X524077 - X5F0052-03	
EPA 200.7	Lithium	mg/L	0.977	0.970	1.00	0.8	20	97.7	X524077 - X5F0052-03	
EPA 200.7	Magnesium	mg/L	41.6	41.6	20.0	0.0	20	100	X524077 - X5F0052-03	
EPA 200.7	Manganese	mg/L	1.18	1.18	1.00	0.0	20	94.6	X524077 - X5F0052-03	
EPA 200.7	Molybdenum	mg/L	0.960	0.958	1.00	0.2	20	96.0	X524077 - X5F0052-03	
EPA 200.7	Nickel	mg/L	0.929	0.926	1.00	0.3	20	92.2	X524077 - X5F0052-03	
EPA 200.7	Potassium	mg/L	20.7	20.7	20.0	0.3	20	98.5	X524077 - X5F0052-03	
EPA 200.7	Silver	mg/L	0.0503	0.0499	0.0500	0.7	20	101	X524077 - X5F0052-03	
EPA 200.7	Sodium	mg/L	28.5	28.4	19.0	0.3	20	96.2	X524077 - X5F0052-03	
EPA 200.7	Vanadium	mg/L	0.980	0.973	1.00	0.6	20	98.0	X524077 - X5F0052-03	
EPA 200.7	Zinc	mg/L	1.03	1.02	1.00	0.2	20	101	X524077 - X5F0052-03	
EPA 200.8	Antimony	mg/L	0.0285	0.0275	0.0250	3.4	20	114	X524162 - X5F0052-01	
EPA 200.8	Arsenic	mg/L	0.0294	0.0289	0.0250	1.7	20	117	X524162 - X5F0052-01	
EPA 200.8	Selenium	mg/L	0.0317	0.0318	0.0250	0.3	20	122	X524162 - X5F0052-01	
EPA 200.8	Thallium	mg/L	0.0272	0.0274	0.0250	0.6	20	109	X524162 - X5F0052-01	
EPA 200.8	Uranium	mg/L	0.0288	0.0292	0.0250	1.3	20	113	X524162 - X5F0052-01	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00221	0.00216	0.00200	2.4	20	111	X524040 - X5F0101-01	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.107	0.106	0.100	0.8	11	107	X524067 - X5F0116-03	
EPA 335.4	Cyanide (total)	mg/L	0.108	0.106	0.100	2.4	20	108	X524065 - X5F0116-03	
EPA 350.1	Ammonia as N	mg/L	0.941	0.948	1.00	0.8	20	94.1	X524181 - X5F0102-02	
OIA 1677	Cyanide (WAD)	mg/L	0.102	0.103	0.100	0.9	11	102	X524109 - X5F0052-02	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	24.2	24.3	3.00	0.4	20	0.30R>S	X523229 - X5F0089-02	M4
EPA 300.0	Chloride	mg/L	11.0	11.1	3.00	0.5	20	98.0	X526039 - X5F0366-04	
EPA 300.0	Fluoride	mg/L	2.53	2.45	2.00	3.4	20	106	X523229 - X5F0089-02	
EPA 300.0	Fluoride	mg/L	1.98	1.99	2.00	0.5	20	85.2	X526039 - X5F0366-04	M2
EPA 300.0	Nitrate as N	mg/L	2.19	2.11	2.00	3.4	20	107	X523229 - X5F0089-02	
EPA 300.0	Nitrate as N	mg/L	2.55	2.56	2.00	0.5	20	102	X526039 - X5F0366-04	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.33	4.18	4.00	3.5	20	108	X523229 - X5F0089-02	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.55	4.62	4.00	1.4	20	101	X526039 - X5F0366-04	
EPA 300.0	Nitrite as N	mg/L	2.14	2.07	2.00	3.6	20	107	X523229 - X5F0089-02	
EPA 300.0	Nitrite as N	mg/L	2.00	2.06	2.00	2.6	20	100	X526039 - X5F0366-04	
EPA 300.0	Sulfate as SO4	mg/L	110	108	10.0	1.7	20	0.30R>S	X523229 - X5F0089-02	M4
EPA 300.0	Sulfate as SO4	mg/L	704	690	10.0	2.0	20	0.30R>S	X526039 - X5F0366-04	M4



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Kellogg, ID 83837-0929

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www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0102**

Reported: 25-Jun-25 16:35

Notes and Definitions

H3	Sample was received and/or analysis requested 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.
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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Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0376**

Reported: 08-Jul-25 13:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
OSABH-17	X5F0376-01	Ground Water	23-Jun-25 12:45	TR	24-Jun-2025	Q5, Q5 C
GVMW-27	X5F0376-02	Ground Water	23-Jun-25 14:06	TR	24-Jun-2025	
GVMW-35A	X5F0376-03	Ground Water	23-Jun-25 10:15	TR	24-Jun-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: X5F0376

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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www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0376**

Reported: 08-Jul-25 13:38

Client Sample ID: **OSABH-17**

Sampled: 23-Jun-25 12:45

Received: 24-Jun-25

Sampled By: TR

SVL Sample ID: **X5F0376-01 (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	400	mg/L	10.0	6.90	100	X527048	MAC	07/03/25 13:19	D18,D20
EPA 200.7	Magnesium	1680	mg/L	5.00	0.900	10	X527048	MAC	07/02/25 15:25	D18,D20
EPA 200.7	Potassium	< 5.00	mg/L	5.00	1.80	10	X527048	MAC	07/02/25 15:25	D18,D20
SM 2340 B	Hardness (as CaCO3)	7540	mg/L	23.1	5.43		N/A		07/02/25 15:25	

Metals (Dissolved)

EPA 200.7	Aluminum	3880	mg/L	0.800	0.540	10	X526190	NMS	06/27/25 10:04	D11,D18
EPA 200.7	Barium	< 0.0200	mg/L	0.0200	0.0190	10	X526190	NMS	06/27/25 10:04	D11,D18
EPA 200.7	Beryllium	0.723	mg/L	0.0200	0.00800	10	X526190	NMS	06/27/25 10:04	D11,D18
EPA 200.7	Boron	< 0.400	mg/L	0.400	0.0780	10	X526190	NMS	06/27/25 10:04	D11,D18
EPA 200.7	Cadmium	8.35	mg/L	0.0200	0.0160	10	X526190	NMS	06/27/25 10:04	D11,D18
EPA 200.7	Calcium	411	mg/L	1.00	0.690	10	X526190	NMS	06/27/25 10:04	D11,D18
EPA 200.7	Chromium	0.655	mg/L	0.0600	0.0200	10	X526190	NMS	06/27/25 10:04	D11,D18
EPA 200.7	Cobalt	18.5	mg/L	0.0600	0.0460	10	X526190	NMS	06/27/25 10:04	D11,D18
EPA 200.7	Copper	14.1	mg/L	0.100	0.0270	10	X526190	NMS	06/27/25 10:04	D11,D18
EPA 200.7	Iron	68.9	mg/L	1.00	0.560	10	X526190	NMS	06/27/25 10:04	D11,D18
EPA 200.7	Lead	0.0995	mg/L	0.0750	0.0490	10	X526190	NMS	06/27/25 10:04	D11,D18
EPA 200.7	Lithium	2.03	mg/L	0.400	0.250	10	X526190	NMS	06/27/25 10:04	D11,D18
EPA 200.7	Magnesium	1580	mg/L	5.00	0.900	10	X526190	NMS	06/27/25 10:04	D11,D18
EPA 200.7	Manganese	1410	mg/L	8.00	3.40	1000	X526190	NMS	06/27/25 11:33	D11,D18
EPA 200.7	Molybdenum	< 0.0800	mg/L	0.0800	0.0340	10	X526190	NMS	06/27/25 10:04	D11,D18
EPA 200.7	Nickel	15.3	mg/L	0.100	0.0480	10	X526190	NMS	06/27/25 10:04	D11,D18
EPA 200.7	Potassium	< 5.00	mg/L	5.00	1.80	10	X526190	NMS	06/27/25 10:04	D11,D18
EPA 200.7	Silver	< 0.0500	mg/L	0.0500	0.0190	10	X526190	NMS	06/27/25 10:04	D11,D18
EPA 200.7	Sodium	13.1	mg/L	5.00	1.20	10	X526190	NMS	06/27/25 10:04	D11,D18
EPA 200.7	Vanadium	< 0.0500	mg/L	0.0500	0.0190	10	X526190	NMS	06/27/25 10:04	D11,D18
EPA 200.7	Zinc	309	mg/L	0.100	0.0540	10	X526190	NMS	06/27/25 10:04	D11,D18
EPA 200.8	Antimony	< 0.0200	mg/L	0.0200	0.0144	20	X527111	NMS	07/08/25 08:41	D11
EPA 200.8	Arsenic	0.554	mg/L	0.0200	0.00420	20	X527111	NMS	07/08/25 08:41	D11
EPA 200.8	Selenium	0.0569	mg/L	0.0200	0.00480	20	X527111	NMS	07/08/25 08:41	D11
EPA 200.8	Thallium	< 0.00400	mg/L	0.00400	0.00160	20	X527111	NMS	07/08/25 08:41	D11
EPA 200.8	Uranium	13.4	mg/L	0.00200	0.00104	20	X527111	NMS	07/08/25 08:41	D11

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X526144	MAC	06/26/25 17:19	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0500	mg/L	0.0500	0.0480	10	X526098	ORW	06/26/25 12:01	D14
EPA 335.4	Cyanide (total)	0.0226	mg/L	0.0050	0.0038		X527003	JPM	07/01/25 10:09	
EPA 350.1	Ammonia as N	0.062	mg/L	0.030	0.013		X526161	ORW	06/27/25 14:23	
OIA 1677	Cyanide (WAD)	< 0.0500	mg/L	0.0500	0.0100	10	X526097	ORW	06/26/25 15:39	D14
SM 2310 B	Acidity to pH 8.3	21700	mg/L as CaCO3	10.0			X528009	MWD	07/07/25 09:39	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X527056	MWD	07/02/25 07:56	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X527056	MWD	07/02/25 07:56	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X527056	MWD	07/02/25 07:56	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X527056	MWD	07/02/25 07:56	
SM 2540 C	Total Diss. Solids	48000	mg/L	100			X526109	TJL	06/26/25 13:00	E11
SM 2540 D	Total Susp. Solids	12.0	mg/L	5.0			X526111	TJL	06/26/25 11:50	
SM 4500 H B	pH @21.2°C	3.0	pH Units				X527056	MWD	07/02/25 07:56	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



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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5F0376 Reported: 08-Jul-25 13:38
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Client Sample ID: **OSABH-17**
SVL Sample ID: **X5F0376-01 (Ground Water)**

Sampled: 23-Jun-25 12:45
Received: 24-Jun-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	27.8	mg/L	10.0	1.10	50	X526083	RS	06/24/25 13:54	
EPA 300.0	Fluoride	598	mg/L	100	17.0	1000	X526083	RS	06/24/25 14:09	
EPA 300.0	Nitrate as N	< 2.50	mg/L	2.50	0.650	50	X526083	RS	06/24/25 13:54	D18
EPA 300.0	Nitrate+Nitrite as N	< 5.00	mg/L	5.00	2.20	50	X526083	RS	06/24/25 13:54	D18
EPA 300.0	Nitrite as N	< 2.50	mg/L	2.50	1.55	50	X526083	RS	06/24/25 13:54	D18
EPA 300.0	Sulfate as SO4	30400	mg/L	300	180	1000	X526083	RS	06/24/25 14:09	

Cation/Anion Balance and TDS Ratios										
Cation Sum: 646 meq/L	Anion Sum: 665 meq/L	C/A Balance: -1.47 %	Calculated TDS: 33074	TDS/cTDS: 1.45						

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

Kristi A. Groth

Kristi A. Groth
Project Manager

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0376**

Reported: 08-Jul-25 13:38

Client Sample ID: **GVMW-27**

Sampled: 23-Jun-25 14:06

Received: 24-Jun-25

Sampled By: TR

SVL Sample ID: **X5F0376-02 (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	152	mg/L	0.100	0.069		X527048	MAC	07/03/25 13:21	
EPA 200.7	Magnesium	46.0	mg/L	0.500	0.090		X527048	MAC	07/02/25 14:30	
EPA 200.7	Potassium	3.66	mg/L	0.50	0.18		X527048	MAC	07/02/25 14:30	
SM 2340 B	Hardness (as CaCO3)	593	mg/L	2.31	0.543		N/A		06/27/25 10:07	

Metals (Dissolved)

EPA 200.7	Aluminum	19.8	mg/L	0.080	0.054		X526190	NMS	06/27/25 10:07	
EPA 200.7	Barium	0.0210	mg/L	0.0020	0.0019		X526190	NMS	06/27/25 10:07	
EPA 200.7	Beryllium	0.0238	mg/L	0.00200	0.00080		X526190	NMS	06/27/25 10:07	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X526190	NMS	06/27/25 10:07	
EPA 200.7	Cadmium	0.0666	mg/L	0.0020	0.0016		X526190	NMS	06/27/25 10:07	
EPA 200.7	Calcium	162	mg/L	0.100	0.069		X526190	NMS	06/27/25 10:07	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X526190	NMS	06/27/25 10:07	
EPA 200.7	Cobalt	0.0479	mg/L	0.0060	0.0046		X526190	NMS	06/27/25 10:07	
EPA 200.7	Copper	0.0639	mg/L	0.0100	0.0027		X526190	NMS	06/27/25 10:07	
EPA 200.7	Iron	1.05	mg/L	0.100	0.056		X526190	NMS	06/27/25 10:07	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X526190	NMS	06/27/25 10:07	
EPA 200.7	Lithium	0.051	mg/L	0.040	0.025		X526190	NMS	06/27/25 10:07	
EPA 200.7	Magnesium	47.7	mg/L	0.500	0.090		X526190	NMS	06/27/25 10:07	
EPA 200.7	Manganese	12.5	mg/L	0.0080	0.0034		X526190	NMS	06/27/25 10:07	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X526190	NMS	06/27/25 10:07	
EPA 200.7	Nickel	0.115	mg/L	0.0100	0.0048		X526190	NMS	06/27/25 10:07	
EPA 200.7	Potassium	3.80	mg/L	0.50	0.18		X526190	NMS	06/27/25 10:07	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X526190	NMS	06/27/25 10:07	
EPA 200.7	Sodium	45.2	mg/L	0.50	0.12		X526190	NMS	06/27/25 10:07	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X526190	NMS	06/27/25 10:07	
EPA 200.7	Zinc	2.32	mg/L	0.0100	0.0054		X526190	NMS	06/27/25 10:07	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X527111	NMS	07/08/25 08:44	
EPA 200.8	Arsenic	0.00718	mg/L	0.00100	0.00021		X527111	NMS	07/08/25 08:44	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X527111	NMS	07/08/25 08:44	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X527111	NMS	07/08/25 08:44	
EPA 200.8	Uranium	0.0707	mg/L	0.000100	0.000052		X527111	NMS	07/08/25 08:44	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X526144	MAC	06/26/25 17:26	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X526098	ORW	06/26/25 12:04	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X527003	JPM	07/01/25 10:11	M2
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X526161	ORW	06/27/25 14:26	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X526097	ORW	06/26/25 15:42	
SM 2310 B	Acidity to pH 8.3	291	mg/L as CaCO3	10.0			X528009	MWD	07/07/25 09:39	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X527056	MWD	07/02/25 08:01	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X527056	MWD	07/02/25 08:01	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X527056	MWD	07/02/25 08:01	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X527056	MWD	07/02/25 08:01	
SM 2540 C	Total Diss. Solids	1060	mg/L	10			X526109	TJL	06/26/25 13:00	
SM 2540 D	Total Susp. Solids	6.0	mg/L	5.0			X526111	TJL	06/26/25 11:50	R2B
SM 4500 H B	pH @21.2°C	4.6	pH Units				X527056	MWD	07/02/25 08:01	H5,R2B

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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(208) 784-1258
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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5F0376 Reported: 08-Jul-25 13:38
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Client Sample ID: **GVMW-27**
SVL Sample ID: **X5F0376-02 (Ground Water)**

Sampled: 23-Jun-25 14:06
Received: 24-Jun-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	135	mg/L	5.00	0.55	25	X526083	RS	06/24/25 14:24	
EPA 300.0	Fluoride	4.04	mg/L	2.50	0.425	25	X526083	RS	06/24/25 14:24	
EPA 300.0	Nitrate as N	2.24	mg/L	1.25	0.325	25	X526083	RS	06/24/25 14:24	D18
EPA 300.0	Nitrate+Nitrite as N	< 2.50	mg/L	2.50	1.10	25	X526083	RS	06/24/25 14:24	D18
EPA 300.0	Nitrite as N	< 1.25	mg/L	1.25	0.775	25	X526083	RS	06/24/25 14:24	D18
EPA 300.0	Sulfate as SO4	607	mg/L	7.50	4.50	25	X526083	RS	06/24/25 14:24	

Cation/Anion Balance and TDS Ratios

Cation Sum: 16.2 meq/L	Anion Sum: 16.8 meq/L	C/A Balance: -1.67 %	Calculated TDS: 999	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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0376**

Reported: 08-Jul-25 13:38

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

Sampled: 23-Jun-25 10:15

Received: 24-Jun-25

Sampled By: TR

SVL Sample ID: **X5F0376-03 (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	210	mg/L	0.100	0.069		X527048	MAC	07/03/25 13:23	
EPA 200.7	Magnesium	18.6	mg/L	0.500	0.090		X527048	MAC	07/02/25 14:41	
EPA 200.7	Potassium	34.3	mg/L	0.50	0.18		X527048	MAC	07/02/25 14:41	
SM 2340 B	Hardness (as CaCO3)	524	mg/L	2.31	0.543		N/A		07/02/25 14:41	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X526190	NMS	06/27/25 10:11	
EPA 200.7	Barium	0.0622	mg/L	0.0020	0.0019		X526190	NMS	06/27/25 10:11	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X526190	NMS	06/27/25 10:11	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X526190	NMS	06/27/25 10:11	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X526190	NMS	06/27/25 10:11	
EPA 200.7	Calcium	207	mg/L	0.100	0.069		X526190	NMS	06/27/25 10:11	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X526190	NMS	06/27/25 10:11	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X526190	NMS	06/27/25 10:11	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X526190	NMS	06/27/25 10:11	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X526190	NMS	06/27/25 10:11	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X526190	NMS	06/27/25 10:11	
EPA 200.7	Lithium	0.071	mg/L	0.040	0.025		X526190	NMS	06/27/25 10:11	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X526190	NMS	06/27/25 10:11	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X526190	NMS	06/27/25 10:11	
EPA 200.7	Molybdenum	0.0131	mg/L	0.0080	0.0034		X526190	NMS	06/27/25 10:11	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X526190	NMS	06/27/25 10:11	
EPA 200.7	Potassium	34.1	mg/L	0.50	0.18		X526190	NMS	06/27/25 10:11	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X526190	NMS	06/27/25 10:11	
EPA 200.7	Sodium	38.4	mg/L	0.50	0.12		X526190	NMS	06/27/25 10:11	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X526190	NMS	06/27/25 10:11	
EPA 200.7	Zinc	0.0168	mg/L	0.0100	0.0054		X526190	NMS	06/27/25 10:11	
EPA 200.8	Antimony	0.00427	mg/L	0.00100	0.00072		X527111	NMS	07/08/25 08:47	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X527111	NMS	07/08/25 08:47	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X527111	NMS	07/08/25 08:47	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X527111	NMS	07/08/25 08:47	
EPA 200.8	Uranium	0.000174	mg/L	0.000100	0.000052		X527111	NMS	07/08/25 08:47	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X526144	MAC	06/26/25 17:28	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X526098	ORW	06/26/25 12:20	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X527003	JPM	07/01/25 10:12	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X526161	ORW	06/27/25 14:29	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X526097	ORW	06/26/25 15:57	M1
SM 2310 B	Acidity to pH 8.3	-277	mg/L as CaCO3	10.0			X528009	MWD	07/07/25 09:39	
SM 2320 B	Total Alkalinity	277	mg/L as CaCO3	1.0			X527056	MWD	07/02/25 10:38	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X527056	MWD	07/02/25 10:38	
SM 2320 B	Carbonate	108	mg/L as CaCO3	1.0			X527056	MWD	07/02/25 10:38	
SM 2320 B	Hydroxide	170	mg/L as CaCO3	1.0			X527056	MWD	07/02/25 10:38	
SM 2540 C	Total Diss. Solids	795	mg/L	10			X526109	TJL	06/26/25 13:00	
SM 2540 D	Total Susp. Solids	107	mg/L	5.0			X526111	TJL	06/26/25 11:50	
SM 4500 H B	pH @21.3°C	11.4	pH Units				X527056	MWD	07/02/25 10:38	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



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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5F0376 Reported: 08-Jul-25 13:38
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Client Sample ID: **GVMW-35A**
SVL Sample ID: **X5F0376-03 (Ground Water)**

Sampled: 23-Jun-25 10:15
Received: 24-Jun-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	16.7	mg/L	5.00	0.55	25	X526083	RS	06/24/25 15:10	M4
EPA 300.0	Fluoride	0.173	mg/L	0.100	0.017		X526083	RS	06/24/25 14:55	M2
EPA 300.0	Nitrate as N	0.057	mg/L	0.050	0.013		X526083	RS	06/24/25 14:55	M2
EPA 300.0	Nitrate+Nitrite as N	0.107	mg/L	0.100	0.044		X526083	RS	06/24/25 14:55	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X526083	RS	06/24/25 14:55	
EPA 300.0	Sulfate as SO4	394	mg/L	7.50	4.50	25	X526083	RS	06/24/25 15:10	M4

Cation/Anion Balance and TDS Ratios

Cation Sum: 12.9 meq/L	Anion Sum: 14.2 meq/L	C/A Balance: -4.89 %	Calculated TDS: 868	TDS/cTDS: 0.92
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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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0376**

Reported: 08-Jul-25 13:38

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	X527048	03-Jul-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X527048	02-Jul-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X527048	02-Jul-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X526190	27-Jun-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X526190	27-Jun-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X526190	27-Jun-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X526190	27-Jun-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X526190	27-Jun-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X526190	27-Jun-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X526190	27-Jun-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X526190	27-Jun-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X526190	27-Jun-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X526190	27-Jun-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X526190	27-Jun-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X526190	27-Jun-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X526190	27-Jun-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X526190	27-Jun-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X526190	27-Jun-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X526190	27-Jun-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X526190	27-Jun-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X526190	27-Jun-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X526190	27-Jun-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X526190	27-Jun-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X526190	27-Jun-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X527111	08-Jul-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X527111	08-Jul-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X527111	08-Jul-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X527111	08-Jul-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X527111	08-Jul-25	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X526144	26-Jun-25	
Classical Chemistry Parameters								
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X526098	26-Jun-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X527003	01-Jul-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X526161	27-Jun-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X526097	26-Jun-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X528009	07-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X527056	01-Jul-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X527056	01-Jul-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X527056	01-Jul-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X527056	01-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X526109	26-Jun-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X526111	26-Jun-25	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X526083	24-Jun-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X526083	24-Jun-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X526083	24-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X526083	24-Jun-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X526083	24-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X526083	24-Jun-25	



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Cripple Creek & Victor Gold Mining Company

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5F0376**

Reported: 08-Jul-25 13:38

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	18.8	20.0	94	85 - 115	X527048	03-Jul-25	
EPA 200.7	Magnesium	mg/L	19.0	20.0	95.2	85 - 115	X527048	02-Jul-25	
EPA 200.7	Potassium	mg/L	19.3	20.0	96.4	85 - 115	X527048	02-Jul-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.00	1.00	100	85 - 115	X526190	27-Jun-25	
EPA 200.7	Barium	mg/L	1.02	1.00	102	85 - 115	X526190	27-Jun-25	
EPA 200.7	Beryllium	mg/L	1.02	1.00	102	85 - 115	X526190	27-Jun-25	
EPA 200.7	Boron	mg/L	1.02	1.00	102	85 - 115	X526190	27-Jun-25	
EPA 200.7	Cadmium	mg/L	1.00	1.00	100	85 - 115	X526190	27-Jun-25	
EPA 200.7	Calcium	mg/L	20.4	20.0	102	85 - 115	X526190	27-Jun-25	
EPA 200.7	Chromium	mg/L	1.03	1.00	103	85 - 115	X526190	27-Jun-25	
EPA 200.7	Cobalt	mg/L	0.987	1.00	98.7	85 - 115	X526190	27-Jun-25	
EPA 200.7	Copper	mg/L	0.997	1.00	99.7	85 - 115	X526190	27-Jun-25	
EPA 200.7	Iron	mg/L	10.2	10.0	102	85 - 115	X526190	27-Jun-25	
EPA 200.7	Lead	mg/L	1.01	1.00	101	85 - 115	X526190	27-Jun-25	
EPA 200.7	Lithium	mg/L	0.995	1.00	99.5	85 - 115	X526190	27-Jun-25	
EPA 200.7	Magnesium	mg/L	19.7	20.0	98.3	85 - 115	X526190	27-Jun-25	
EPA 200.7	Manganese	mg/L	1.03	1.00	103	85 - 115	X526190	27-Jun-25	
EPA 200.7	Molybdenum	mg/L	1.05	1.00	105	85 - 115	X526190	27-Jun-25	
EPA 200.7	Nickel	mg/L	0.993	1.00	99.3	85 - 115	X526190	27-Jun-25	
EPA 200.7	Potassium	mg/L	20.5	20.0	102	85 - 115	X526190	27-Jun-25	
EPA 200.7	Silver	mg/L	0.0499	0.0500	99.9	85 - 115	X526190	27-Jun-25	
EPA 200.7	Sodium	mg/L	19.5	19.0	103	85 - 115	X526190	27-Jun-25	
EPA 200.7	Vanadium	mg/L	1.03	1.00	103	85 - 115	X526190	27-Jun-25	
EPA 200.7	Zinc	mg/L	0.993	1.00	99.3	85 - 115	X526190	27-Jun-25	
EPA 200.8	Antimony	mg/L	0.0268	0.0250	107	85 - 115	X527111	08-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0264	0.0250	105	85 - 115	X527111	08-Jul-25	
EPA 200.8	Selenium	mg/L	0.0248	0.0250	99.1	85 - 115	X527111	08-Jul-25	
EPA 200.8	Thallium	mg/L	0.0273	0.0250	109	85 - 115	X527111	08-Jul-25	
EPA 200.8	Uranium	mg/L	0.0281	0.0250	112	85 - 115	X527111	08-Jul-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00206	0.00200	103	85 - 115	X526144	26-Jun-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0981	0.100	98.1	90 - 110	X526098	26-Jun-25	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X527003	01-Jul-25	
EPA 350.1	Ammonia as N	mg/L	1.00	1.00	100	90 - 110	X526161	27-Jun-25	
OIA 1677	Cyanide (WAD)	mg/L	0.101	0.100	101	90 - 110	X526097	26-Jun-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1200	1180	101	95.4 - 104	X528009	07-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.90	9.93	99.7	94 - 106	X527056	01-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	96.7	99.3	97.4	94 - 106	X527056	02-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	402	397	101	94 - 106	X527056	02-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	218	250	87.2	85 - 115	X526109	26-Jun-25	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X526111	26-Jun-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	2.96	3.00	98.8	90 - 110	X526083	24-Jun-25	M2
EPA 300.0	Fluoride	mg/L	1.79	2.00	89.3	90 - 110	X526083	24-Jun-25	
EPA 300.0	Nitrate as N	mg/L	1.97	2.00	98.4	90 - 110	X526083	24-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.50	4.50	100	90 - 110	X526083	24-Jun-25	
EPA 300.0	Nitrite as N	mg/L	2.53	2.50	101	90 - 110	X526083	24-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	9.93	10.0	99.3	90 - 110	X526083	24-Jun-25	

SVL holds the following certifications:

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

Work order Report Page 9 of 13

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0376**

Reported: 08-Jul-25 13:38

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	21700	21700	0.0	20	X528009 - X5F0376-01	07-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X527056 - X5F0376-02	02-Jul-25	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X527056 - X5F0376-02	02-Jul-25	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X527056 - X5F0376-02	02-Jul-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X527056 - X5F0376-02	02-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	1090	1060	2.8	10	X526109 - X5F0376-02	26-Jun-25	
SM 2540 C	Total Diss. Solids	mg/L	807	808	0.1	10	X526109 - X5F0383-05	26-Jun-25	
SM 2540 D	Total Susp. Solids	mg/L	103	6.0	178.0	10	X526111 - X5F0376-02	26-Jun-25	R2B
SM 4500 H B	pH @21.4°C	pH Units	4.3	4.6	7.5	20	X527056 - X5F0376-02	02-Jul-25	R2B

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	30.3	11.4	20.0	94	70 - 130	X527048 - X5F0357-01	03-Jul-25	
EPA 200.7	Calcium	mg/L	310	292	20.0	87	70 - 130	X527048 - X5F0383-02	03-Jul-25	
EPA 200.7	Magnesium	mg/L	24.2	4.75	20.0	97.3	70 - 130	X527048 - X5F0357-01	02-Jul-25	
EPA 200.7	Magnesium	mg/L	55.0	32.9	20.0	110	70 - 130	X527048 - X5F0383-02	02-Jul-25	
EPA 200.7	Potassium	mg/L	20.7	1.49	20.0	96.3	70 - 130	X527048 - X5F0357-01	02-Jul-25	
EPA 200.7	Potassium	mg/L	22.2	1.53	20.0	103	70 - 130	X527048 - X5F0383-02	02-Jul-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.974	<0.080	1.00	97.4	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Aluminum	mg/L	8.50	7.40	1.00	110	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Barium	mg/L	0.981	0.0101	1.00	97.1	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Barium	mg/L	1.02	0.0100	1.00	101	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Beryllium	mg/L	1.00	<0.00200	1.00	100	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Beryllium	mg/L	1.03	<0.00200	1.00	103	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Boron	mg/L	0.991	<0.0400	1.00	99.1	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Boron	mg/L	1.04	<0.0400	1.00	104	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Cadmium	mg/L	0.992	<0.0020	1.00	99.2	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Cadmium	mg/L	1.06	0.0448	1.00	102	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Calcium	mg/L	34.6	15.3	20.0	96.3	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Calcium	mg/L	147	128	20.0	96.9	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Chromium	mg/L	1.00	<0.0060	1.00	100	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Chromium	mg/L	1.04	0.0133	1.00	103	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Cobalt	mg/L	0.965	<0.0060	1.00	96.5	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Cobalt	mg/L	1.04	0.0523	1.00	98.5	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Copper	mg/L	0.954	<0.0100	1.00	95.4	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Copper	mg/L	1.50	0.449	1.00	106	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Iron	mg/L	9.87	<0.100	10.0	98.7	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Iron	mg/L	73.6	63.8	10.0	97.6	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Lead	mg/L	1.00	<0.0075	1.00	100	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Lead	mg/L	1.03	<0.0075	1.00	103	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Lithium	mg/L	0.954	<0.040	1.00	95.4	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Lithium	mg/L	1.08	0.046	1.00	104	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Magnesium	mg/L	19.5	<0.500	20.0	97.4	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Magnesium	mg/L	25.6	5.38	20.0	101	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Manganese	mg/L	1.01	<0.0080	1.00	101	70 - 130	X526190 - X5F0418-01	27-Jun-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



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Cripple Creek & Victor Gold Mining Company

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5F0376**

Reported: 08-Jul-25 13:38

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	3.56	2.55	1.00	102	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Molybdenum	mg/L	1.02	<0.0080	1.00	102	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Molybdenum	mg/L	1.03	<0.0080	1.00	103	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Nickel	mg/L	0.975	<0.0100	1.00	97.5	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Nickel	mg/L	1.39	0.392	1.00	100	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Potassium	mg/L	19.9	<0.50	20.0	99.6	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Potassium	mg/L	21.0	<0.50	20.0	104	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Silver	mg/L	0.0482	<0.0050	0.0500	96.4	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Silver	mg/L	0.0512	<0.0050	0.0500	102	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Sodium	mg/L	19.2	<0.50	19.0	99.4	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Sodium	mg/L	21.2	1.18	19.0	105	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Vanadium	mg/L	1.01	<0.0050	1.00	101	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Vanadium	mg/L	1.04	0.0089	1.00	104	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Zinc	mg/L	0.991	<0.0100	1.00	99.1	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Zinc	mg/L	3.69	2.68	1.00	101	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.8	Antimony	mg/L	0.0248	<0.00100	0.0250	99.3	70 - 130	X527111 - X5F0463-01	08-Jul-25	
EPA 200.8	Antimony	mg/L	0.0257	<0.00100	0.0250	103	70 - 130	X527111 - X5F0476-01	08-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0270	<0.00100	0.0250	106	70 - 130	X527111 - X5F0463-01	08-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0258	<0.00100	0.0250	103	70 - 130	X527111 - X5F0476-01	08-Jul-25	
EPA 200.8	Selenium	mg/L	0.0333	0.00737	0.0250	104	70 - 130	X527111 - X5F0463-01	08-Jul-25	
EPA 200.8	Selenium	mg/L	0.0276	<0.00100	0.0250	110	70 - 130	X527111 - X5F0476-01	08-Jul-25	
EPA 200.8	Thallium	mg/L	0.0247	<0.000200	0.0250	98.8	70 - 130	X527111 - X5F0463-01	08-Jul-25	
EPA 200.8	Thallium	mg/L	0.0236	<0.000200	0.0250	94.3	70 - 130	X527111 - X5F0476-01	08-Jul-25	
EPA 200.8	Uranium	mg/L	0.0314	0.00351	0.0250	112	70 - 130	X527111 - X5F0463-01	08-Jul-25	
EPA 200.8	Uranium	mg/L	0.0259	0.000198	0.0250	103	70 - 130	X527111 - X5F0476-01	08-Jul-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00217	<0.000200	0.00200	102	70 - 130	X526144 - X5F0376-01	26-Jun-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.100	<0.0050	0.100	100	79 - 121	X526098 - X5F0376-02	26-Jun-25	
EPA 335.4	Cyanide (total)	mg/L	0.0138	<0.0050	0.100	13.8	90 - 110	X527003 - X5F0410-01	01-Jul-25	M2,R2B
EPA 335.4	Cyanide (total)	mg/L	0.0545	<0.0050	0.100	54.5	90 - 110	X527003 - X5F0376-02	01-Jul-25	M2
EPA 350.1	Ammonia as N	mg/L	0.990	<0.030	1.00	99.0	90 - 110	X526161 - X5F0410-02	27-Jun-25	
EPA 350.1	Ammonia as N	mg/L	0.971	<0.030	1.00	95.8	90 - 110	X526161 - X5F0410-01	27-Jun-25	
OIA 1677	Cyanide (WAD)	mg/L	0.126	<0.0050	0.100	126	82 - 118	X526097 - X5F0376-03	26-Jun-25	M1

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	18.9	16.7	3.00	0.30R>S	90 - 110	X526083 - X5F0376-03	24-Jun-25	M4
EPA 300.0	Fluoride	mg/L	1.93	0.173	2.00	88.0	90 - 110	X526083 - X5F0376-03	24-Jun-25	M2
EPA 300.0	Nitrate as N	mg/L	1.75	0.057	2.00	84.8	90 - 110	X526083 - X5F0376-03	24-Jun-25	M2
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.82	0.107	4.00	92.8	90 - 110	X526083 - X5F0376-03	24-Jun-25	
EPA 300.0	Nitrite as N	mg/L	2.06	<0.050	2.00	101	90 - 110	X526083 - X5F0376-03	24-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	396	394	10.0	0.30R>S	90 - 110	X526083 - X5F0376-03	24-Jun-25	M4

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0376**

Reported: 08-Jul-25 13:38

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	30.0	30.3	20.0	1.0	20	93	X527048 - X5F0357-01	
EPA 200.7	Magnesium	mg/L	24.1	24.2	20.0	0.3	20	97.0	X527048 - X5F0357-01	
EPA 200.7	Potassium	mg/L	20.8	20.7	20.0	0.3	20	96.6	X527048 - X5F0357-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	0.974	1.00	3.5	20	101	X526190 - X5F0418-01	
EPA 200.7	Barium	mg/L	1.03	0.981	1.00	4.9	20	102	X526190 - X5F0418-01	
EPA 200.7	Beryllium	mg/L	1.01	1.00	1.00	1.0	20	101	X526190 - X5F0418-01	
EPA 200.7	Boron	mg/L	1.02	0.991	1.00	2.5	20	102	X526190 - X5F0418-01	
EPA 200.7	Cadmium	mg/L	0.992	0.992	1.00	0.0	20	99.2	X526190 - X5F0418-01	
EPA 200.7	Calcium	mg/L	35.0	34.6	20.0	1.1	20	98.3	X526190 - X5F0418-01	
EPA 200.7	Chromium	mg/L	1.01	1.00	1.00	1.1	20	101	X526190 - X5F0418-01	
EPA 200.7	Cobalt	mg/L	0.964	0.965	1.00	0.1	20	96.4	X526190 - X5F0418-01	
EPA 200.7	Copper	mg/L	0.965	0.954	1.00	1.1	20	96.5	X526190 - X5F0418-01	
EPA 200.7	Iron	mg/L	10.0	9.87	10.0	1.5	20	100	X526190 - X5F0418-01	
EPA 200.7	Lead	mg/L	1.00	1.00	1.00	0.2	20	100	X526190 - X5F0418-01	
EPA 200.7	Lithium	mg/L	0.985	0.954	1.00	3.3	20	98.5	X526190 - X5F0418-01	
EPA 200.7	Magnesium	mg/L	19.5	19.5	20.0	0.2	20	97.6	X526190 - X5F0418-01	
EPA 200.7	Manganese	mg/L	1.02	1.01	1.00	1.5	20	102	X526190 - X5F0418-01	
EPA 200.7	Molybdenum	mg/L	1.03	1.02	1.00	0.3	20	103	X526190 - X5F0418-01	
EPA 200.7	Nickel	mg/L	0.975	0.975	1.00	0.1	20	97.5	X526190 - X5F0418-01	
EPA 200.7	Potassium	mg/L	20.1	19.9	20.0	0.8	20	100	X526190 - X5F0418-01	
EPA 200.7	Silver	mg/L	0.0501	0.0482	0.0500	3.9	20	100	X526190 - X5F0418-01	
EPA 200.7	Sodium	mg/L	19.4	19.2	19.0	1.0	20	100	X526190 - X5F0418-01	
EPA 200.7	Vanadium	mg/L	1.03	1.01	1.00	1.6	20	103	X526190 - X5F0418-01	
EPA 200.7	Zinc	mg/L	0.993	0.991	1.00	0.2	20	99.3	X526190 - X5F0418-01	
EPA 200.8	Antimony	mg/L	0.0259	0.0257	0.0250	1.0	20	104	X527111 - X5F0476-01	
EPA 200.8	Arsenic	mg/L	0.0257	0.0258	0.0250	0.3	20	103	X527111 - X5F0476-01	
EPA 200.8	Selenium	mg/L	0.0273	0.0276	0.0250	0.9	20	109	X527111 - X5F0476-01	
EPA 200.8	Thallium	mg/L	0.0237	0.0236	0.0250	0.6	20	94.9	X527111 - X5F0476-01	
EPA 200.8	Uranium	mg/L	0.0257	0.0259	0.0250	0.6	20	102	X527111 - X5F0476-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00224	0.00217	0.00200	3.2	20	105	X526144 - X5F0376-01	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.102	0.100	0.100	1.1	11	102	X526098 - X5F0376-02	
EPA 335.4	Cyanide (total)	mg/L	0.0525	0.0138	0.100	117.0	20	52.5	X527003 - X5F0410-01	M2,R2B
EPA 350.1	Ammonia as N	mg/L	0.975	0.990	1.00	1.5	20	97.5	X526161 - X5F0410-02	
OIA 1677	Cyanide (WAD)	mg/L	0.140	0.126	0.100	10.9	11	140	X526097 - X5F0376-03	M1
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	18.7	18.9	3.00	1.1	20	0.30R>S	X526083 - X5F0376-03	M4
EPA 300.0	Fluoride	mg/L	2.02	1.93	2.00	4.3	20	92.3	X526083 - X5F0376-03	
EPA 300.0	Nitrate as N	mg/L	2.00	1.75	2.00	13.0	20	97.0	X526083 - X5F0376-03	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.04	3.82	4.00	5.6	20	98.3	X526083 - X5F0376-03	
EPA 300.0	Nitrite as N	mg/L	2.04	2.06	2.00	1.1	20	99.5	X526083 - X5F0376-03	
EPA 300.0	Sulfate as SO4	mg/L	395	396	10.0	0.3	20	0.30R>S	X526083 - X5F0376-03	M4

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0376**

Reported: 08-Jul-25 13:38

Notes and Definitions

D11	Due to sample color, a sample dilution was performed to minimize spectral interference.
D14	Due to precipitates evident in sample/digestate, a sample dilution was performed.
D18	Due to a published chemical interference, a sample dilution was performed.
D20	Al@7000+ ppm
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.
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.
Q5	Sample was received with inadequate preservation, but preserved by the laboratory.
Q5C	After two pH adjustments, the method-specified pH was not achieved.
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



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www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0410**

Reported: 08-Jul-25 14:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-30	X5F0410-01	Ground Water	24-Jun-25 10:06	JC	25-Jun-2025	Q5
GVMW-10	X5F0410-02	Ground Water	24-Jun-25 11:45	JC	25-Jun-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: X5F0410

The state of origin only accredits for drinking water analyses.

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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0410**

Reported: 08-Jul-25 14:54

Client Sample ID: **GVMW-30**

Sampled: 24-Jun-25 10:06

Received: 25-Jun-25

Sampled By: JC

SVL Sample ID: **X5F0410-01 (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	439	mg/L	0.500	0.345	5	X527049	MAC	07/02/25 12:47	M4
EPA 200.7	Magnesium	362	mg/L	0.500	0.090		X527049	NMS	07/02/25 09:42	
EPA 200.7	Potassium	1.98	mg/L	0.50	0.18		X527049	NMS	07/02/25 09:42	
SM 2340 B	Hardness (as CaCO3)	2590	mg/L	3.31	1.23		N/A		06/27/25 10:18	

Metals (Dissolved)

EPA 200.7	Aluminum	449	mg/L	0.080	0.054		X526190	NMS	06/27/25 10:18	
EPA 200.7	Barium	0.0108	mg/L	0.0020	0.0019		X526190	NMS	06/27/25 10:18	
EPA 200.7	Beryllium	0.632	mg/L	0.00200	0.00080		X526190	NMS	06/27/25 10:18	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X526190	NMS	06/27/25 10:18	
EPA 200.7	Cadmium	0.361	mg/L	0.0020	0.0016		X526190	NMS	06/27/25 10:18	
EPA 200.7	Calcium	461	mg/L	0.100	0.069		X526190	NMS	06/27/25 10:18	
EPA 200.7	Chromium	0.297	mg/L	0.0060	0.0020		X526190	NMS	06/27/25 10:18	
EPA 200.7	Cobalt	0.627	mg/L	0.0060	0.0046		X526190	NMS	06/27/25 10:18	
EPA 200.7	Copper	0.289	mg/L	0.0100	0.0027		X526190	NMS	06/27/25 10:18	
EPA 200.7	Iron	23.9	mg/L	0.100	0.056		X526190	NMS	06/27/25 10:18	
EPA 200.7	Lead	0.0115	mg/L	0.0075	0.0049		X526190	NMS	06/27/25 10:18	
EPA 200.7	Lithium	0.386	mg/L	0.040	0.025		X526190	NMS	06/27/25 10:18	
EPA 200.7	Magnesium	354	mg/L	0.500	0.090		X526190	NMS	06/27/25 10:18	
EPA 200.7	Manganese	70.5	mg/L	0.0080	0.0034		X526190	NMS	06/27/25 10:18	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X526190	NMS	06/27/25 10:18	
EPA 200.7	Nickel	1.84	mg/L	0.0100	0.0048		X526190	NMS	06/27/25 10:18	
EPA 200.7	Potassium	2.11	mg/L	0.50	0.18		X526190	NMS	06/27/25 10:18	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X526190	NMS	06/27/25 10:18	
EPA 200.7	Sodium	36.4	mg/L	0.50	0.12		X526190	NMS	06/27/25 10:18	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X526190	NMS	06/27/25 10:18	
EPA 200.7	Zinc	6.12	mg/L	0.0100	0.0054		X526190	NMS	06/27/25 10:18	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X527111	NMS	07/08/25 08:53	
EPA 200.8	Arsenic	0.0676	mg/L	0.00100	0.00021		X527111	NMS	07/08/25 08:53	
EPA 200.8	Selenium	0.00830	mg/L	0.00100	0.00024		X527111	NMS	07/08/25 08:53	
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.000400	5	X527111	NMS	07/08/25 10:06	D17
EPA 200.8	Uranium	0.971	mg/L	0.000500	0.000260	5	X527111	NMS	07/08/25 10:06	D17

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X526144	MAC	06/26/25 17:32	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X527117	JPM	07/03/25 14:12	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X527003	JPM	07/01/25 10:16	M2,R2B
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X526161	ORW	06/27/25 15:00	
OIA 1677	Cyanide (WAD)	< 0.0500	mg/L	0.0500	0.0100	10	X527060	JPM	07/02/25 13:29	D18,Q12
SM 2310 B	Acidity to pH 8.3	2680	mg/L as CaCO3	10.0			X528009	MWD	07/07/25 09:39	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X527056	MWD	07/02/25 08:45	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X527056	MWD	07/02/25 08:45	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X527056	MWD	07/02/25 08:45	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X527056	MWD	07/02/25 08:45	
SM 2540 C	Total Diss. Solids	7340	mg/L	40			X526147	TJL	06/27/25 12:50	
SM 2540 D	Total Susp. Solids	36.0	mg/L	5.0			X526162	TJK	06/27/25 11:40	
SM 4500 H B	pH @21.8°C	3.1	pH Units				X527056	MWD	07/02/25 08:45	H5



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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5F0410 Reported: 08-Jul-25 14:54
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Client Sample ID: **GVMW-30**
SVL Sample ID: **X5F0410-01 (Ground Water)**

Sampled: 24-Jun-25 10:06
Received: 25-Jun-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	2.62	mg/L	2.00	0.22	10	X526088	RS	06/25/25 22:26	D18
EPA 300.0	Fluoride	19.7	mg/L	1.00	0.170	10	X526088	RS	06/25/25 22:26	
EPA 300.0	Nitrate as N	2.47	mg/L	0.500	0.130	10	X526088	RS	06/25/25 22:26	D18
EPA 300.0	Nitrate+Nitrite as N	2.50	mg/L	1.00	0.440	10	X526088	RS	06/25/25 22:26	D18
EPA 300.0	Nitrite as N	< 0.500	mg/L	0.500	0.310	10	X526088	RS	06/25/25 22:26	D18
EPA 300.0	Sulfate as SO4	4850	mg/L	75.0	45.0	250	X526088	RS	06/25/25 22:42	

Cation/Anion Balance and TDS Ratios										
Cation Sum: 106 meq/L		Anion Sum: 102 meq/L		C/A Balance: 1.91 %		Calculated TDS: 5730		TDS/cTDS: 1.28		

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

Kristi A. Groth

Kristi A. Groth
Project Manager

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0410**

Reported: 08-Jul-25 14:54

Client Sample ID: **GVMW-10**

Sampled: 24-Jun-25 11:45

Received: 25-Jun-25

Sampled By: JC

SVL Sample ID: **X5F0410-02 (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	352	mg/L	0.100	0.069		X527049	NMS	07/02/25 09:48	
EPA 200.7	Magnesium	140	mg/L	0.500	0.090		X527049	NMS	07/02/25 09:48	M3
EPA 200.7	Potassium	2.21	mg/L	0.50	0.18		X527049	NMS	07/02/25 09:48	
SM 2340 B	Hardness (as CaCO3)	1450	mg/L	2.31	0.543		N/A		06/27/25 10:22	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X526190	NMS	06/27/25 10:22	
EPA 200.7	Barium	0.0142	mg/L	0.0020	0.0019		X526190	NMS	06/27/25 10:22	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X526190	NMS	06/27/25 10:22	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X526190	NMS	06/27/25 10:22	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X526190	NMS	06/27/25 10:22	
EPA 200.7	Calcium	345	mg/L	0.100	0.069		X526190	NMS	06/27/25 10:22	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X526190	NMS	06/27/25 10:22	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X526190	NMS	06/27/25 10:22	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X526190	NMS	06/27/25 10:22	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X526190	NMS	06/27/25 10:22	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X526190	NMS	06/27/25 10:22	
EPA 200.7	Lithium	0.093	mg/L	0.040	0.025		X526190	NMS	06/27/25 10:22	
EPA 200.7	Magnesium	142	mg/L	0.500	0.090		X526190	NMS	06/27/25 10:22	
EPA 200.7	Manganese	2.54	mg/L	0.0080	0.0034		X526190	NMS	06/27/25 10:22	
EPA 200.7	Molybdenum	0.0403	mg/L	0.0080	0.0034		X526190	NMS	06/27/25 10:22	
EPA 200.7	Nickel	0.0173	mg/L	0.0100	0.0048		X526190	NMS	06/27/25 10:22	
EPA 200.7	Potassium	2.35	mg/L	0.50	0.18		X526190	NMS	06/27/25 10:22	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X526190	NMS	06/27/25 10:22	
EPA 200.7	Sodium	37.6	mg/L	0.50	0.12		X526190	NMS	06/27/25 10:22	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X526190	NMS	06/27/25 10:22	
EPA 200.7	Zinc	0.180	mg/L	0.0100	0.0054		X526190	NMS	06/27/25 10:22	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X527111	NMS	07/08/25 08:56	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X527111	NMS	07/08/25 08:56	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X527111	NMS	07/08/25 08:56	
EPA 200.8	Thallium	0.000230	mg/L	0.000200	0.00008		X527111	NMS	07/08/25 08:56	
EPA 200.8	Uranium	0.0480	mg/L	0.000100	0.000052		X527111	NMS	07/08/25 08:56	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X526144	MAC	06/26/25 17:39	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X527117	JPM	07/03/25 14:28	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X527003	JPM	07/01/25 10:24	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X526161	ORW	06/27/25 15:02	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X527060	JPM	07/02/25 13:32	M1
SM 2310 B	Acidity to pH 8.3	-332	mg/L as CaCO3	10.0			X528009	MWD	07/07/25 09:39	
SM 2320 B	Total Alkalinity	337	mg/L as CaCO3	1.0			X527056	MWD	07/02/25 08:50	
SM 2320 B	Bicarbonate	337	mg/L as CaCO3	1.0			X527056	MWD	07/02/25 08:50	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X527056	MWD	07/02/25 08:50	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X527056	MWD	07/02/25 08:50	
SM 2540 C	Total Diss. Solids	2100	mg/L	40			X526147	TJL	06/27/25 12:50	
SM 2540 D	Total Susp. Solids	10.0	mg/L	5.0			X526162	TJK	06/27/25 11:40	
SM 4500 H B	pH @21.8°C	7.9	pH Units				X527056	MWD	07/02/25 08:50	H5



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www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0410**

Reported: 08-Jul-25 14:54

Client Sample ID: **GVMW-10**

Sampled: 24-Jun-25 11:45

SVL Sample ID: **X5F0410-02 (Ground Water)**

Received: 25-Jun-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	5.66	mg/L	1.00	0.11	5	X526088	RS	06/25/25 23:28	D18
EPA 300.0	Fluoride	1.26	mg/L	0.500	0.085	5	X526088	RS	06/25/25 23:28	D18
EPA 300.0	Nitrate as N	< 0.250	mg/L	0.250	0.065	5	X526088	RS	06/25/25 23:28	D18
EPA 300.0	Nitrate+Nitrite as N	< 0.500	mg/L	0.500	0.220	5	X526088	RS	06/25/25 23:28	D18
EPA 300.0	Nitrite as N	< 0.250	mg/L	0.250	0.155	5	X526088	RS	06/25/25 23:28	D18
EPA 300.0	Sulfate as SO4	1140	mg/L	30.0	18.0	100	X526088	RS	06/25/25 23:44	

Cation/Anion Balance and TDS Ratios

Cation Sum: 30.6 meq/L

Anion Sum: 30.7 meq/L

C/A Balance: -0.26 %

Calculated TDS: 1879

TDS/cTDS: 1.12

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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Cripple Creek & Victor Gold Mining Company

Ironclad Security 1632 County Rd 82
Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5F0410**
Reported: 08-Jul-25 14:54

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	X527049	02-Jul-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X527049	02-Jul-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X527049	02-Jul-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X526190	27-Jun-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X526190	27-Jun-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X526190	27-Jun-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X526190	27-Jun-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X526190	27-Jun-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X526190	27-Jun-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X526190	27-Jun-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X526190	27-Jun-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X526190	27-Jun-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X526190	27-Jun-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X526190	27-Jun-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X526190	27-Jun-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X526190	27-Jun-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X526190	27-Jun-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X526190	27-Jun-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X526190	27-Jun-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X526190	27-Jun-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X526190	27-Jun-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X526190	27-Jun-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X526190	27-Jun-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X526190	27-Jun-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X527111	08-Jul-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X527111	08-Jul-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X527111	08-Jul-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X527111	08-Jul-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X527111	08-Jul-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X526144	26-Jun-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X527117	03-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X527003	01-Jul-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X526161	27-Jun-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X527060	02-Jul-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X528009	07-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X527056	01-Jul-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X527056	01-Jul-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X527056	01-Jul-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X527056	01-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X526147	27-Jun-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X526162	27-Jun-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X526088	25-Jun-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X526088	25-Jun-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X526088	25-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X526088	25-Jun-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X526088	25-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X526088	25-Jun-25	



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Kellogg, ID 83837-0929

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www.svl.net
Cripple Creek & Victor Gold Mining Company

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5F0410**

Reported: 08-Jul-25 14:54

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	19.4	20.0	97	85 - 115	X527049	02-Jul-25	
EPA 200.7	Magnesium	mg/L	19.6	20.0	98.1	85 - 115	X527049	02-Jul-25	
EPA 200.7	Potassium	mg/L	19.6	20.0	98.1	85 - 115	X527049	02-Jul-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.00	1.00	100	85 - 115	X526190	27-Jun-25	
EPA 200.7	Barium	mg/L	1.02	1.00	102	85 - 115	X526190	27-Jun-25	
EPA 200.7	Beryllium	mg/L	1.02	1.00	102	85 - 115	X526190	27-Jun-25	
EPA 200.7	Boron	mg/L	1.02	1.00	102	85 - 115	X526190	27-Jun-25	
EPA 200.7	Cadmium	mg/L	1.00	1.00	100	85 - 115	X526190	27-Jun-25	
EPA 200.7	Calcium	mg/L	20.4	20.0	102	85 - 115	X526190	27-Jun-25	
EPA 200.7	Chromium	mg/L	1.03	1.00	103	85 - 115	X526190	27-Jun-25	
EPA 200.7	Cobalt	mg/L	0.987	1.00	98.7	85 - 115	X526190	27-Jun-25	
EPA 200.7	Copper	mg/L	0.997	1.00	99.7	85 - 115	X526190	27-Jun-25	
EPA 200.7	Iron	mg/L	10.2	10.0	102	85 - 115	X526190	27-Jun-25	
EPA 200.7	Lead	mg/L	1.01	1.00	101	85 - 115	X526190	27-Jun-25	
EPA 200.7	Lithium	mg/L	0.995	1.00	99.5	85 - 115	X526190	27-Jun-25	
EPA 200.7	Magnesium	mg/L	19.7	20.0	98.3	85 - 115	X526190	27-Jun-25	
EPA 200.7	Manganese	mg/L	1.03	1.00	103	85 - 115	X526190	27-Jun-25	
EPA 200.7	Molybdenum	mg/L	1.05	1.00	105	85 - 115	X526190	27-Jun-25	
EPA 200.7	Nickel	mg/L	0.993	1.00	99.3	85 - 115	X526190	27-Jun-25	
EPA 200.7	Potassium	mg/L	20.5	20.0	102	85 - 115	X526190	27-Jun-25	
EPA 200.7	Silver	mg/L	0.0499	0.0500	99.9	85 - 115	X526190	27-Jun-25	
EPA 200.7	Sodium	mg/L	19.5	19.0	103	85 - 115	X526190	27-Jun-25	
EPA 200.7	Vanadium	mg/L	1.03	1.00	103	85 - 115	X526190	27-Jun-25	
EPA 200.7	Zinc	mg/L	0.993	1.00	99.3	85 - 115	X526190	27-Jun-25	
EPA 200.8	Antimony	mg/L	0.0268	0.0250	107	85 - 115	X527111	08-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0264	0.0250	105	85 - 115	X527111	08-Jul-25	
EPA 200.8	Selenium	mg/L	0.0248	0.0250	99.1	85 - 115	X527111	08-Jul-25	
EPA 200.8	Thallium	mg/L	0.0273	0.0250	109	85 - 115	X527111	08-Jul-25	
EPA 200.8	Uranium	mg/L	0.0281	0.0250	112	85 - 115	X527111	08-Jul-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00206	0.00200	103	85 - 115	X526144	26-Jun-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0937	0.100	93.7	90 - 110	X527117	03-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X527003	01-Jul-25	
EPA 350.1	Ammonia as N	mg/L	1.00	1.00	100	90 - 110	X526161	27-Jun-25	
OIA 1677	Cyanide (WAD)	mg/L	0.0997	0.100	99.7	90 - 110	X527060	02-Jul-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1200	1180	101	95.4 - 104	X528009	07-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.90	9.93	99.7	94 - 106	X527056	01-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	96.7	99.3	97.4	94 - 106	X527056	02-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	402	397	101	94 - 106	X527056	02-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	243	250	97.2	85 - 115	X526147	27-Jun-25	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X526162	27-Jun-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.03	3.00	101	90 - 110	X526088	25-Jun-25	
EPA 300.0	Fluoride	mg/L	1.98	2.00	99.1	90 - 110	X526088	25-Jun-25	
EPA 300.0	Nitrate as N	mg/L	2.00	2.00	99.8	90 - 110	X526088	25-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.60	4.50	102	90 - 110	X526088	25-Jun-25	
EPA 300.0	Nitrite as N	mg/L	2.60	2.50	104	90 - 110	X526088	25-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	9.60	10.0	96.0	90 - 110	X526088	25-Jun-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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0410**

Reported: 08-Jul-25 14:54

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	21700	21700	0.0	20	X528009 - X5F0376-01	07-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X527056 - X5F0376-02	02-Jul-25	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X527056 - X5F0376-02	02-Jul-25	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X527056 - X5F0376-02	02-Jul-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X527056 - X5F0376-02	02-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	490	491	0.2	10	X526147 - X5F0411-01	27-Jun-25	
SM 2540 C	Total Diss. Solids	mg/L	635	630	0.8	10	X526147 - X5F0411-02	27-Jun-25	
SM 2540 D	Total Susp. Solids	mg/L	163	182	11.0	10	X526162 - X5F0411-02	27-Jun-25	R2B
SM 2540 D	Total Susp. Solids	mg/L	543	544	0.2	10	X526162 - X5F0411-01	27-Jun-25	
SM 4500 H B	pH @21.4°C	pH Units	4.3	4.6	7.5	20	X527056 - X5F0376-02	02-Jul-25	R2B

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	371	352	20.0	96	70 - 130	X527049 - X5F0410-02	02-Jul-25	
EPA 200.7	Calcium	mg/L	465	439	20.0	0.30R>S	70 - 130	X527049 - X5F0410-01	02-Jul-25	M4
EPA 200.7	Magnesium	mg/L	384	362	20.0	112	70 - 130	X527049 - X5F0410-01	02-Jul-25	
EPA 200.7	Magnesium	mg/L	161	140	20.0	106	70 - 130	X527049 - X5F0410-02	02-Jul-25	
EPA 200.7	Potassium	mg/L	24.6	1.98	20.0	113	70 - 130	X527049 - X5F0410-01	02-Jul-25	
EPA 200.7	Potassium	mg/L	22.7	2.21	20.0	102	70 - 130	X527049 - X5F0410-02	02-Jul-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.974	<0.080	1.00	97.4	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Aluminum	mg/L	8.50	7.40	1.00	110	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Barium	mg/L	0.981	0.0101	1.00	97.1	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Barium	mg/L	1.02	0.0100	1.00	101	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Beryllium	mg/L	1.00	<0.00200	1.00	100	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Beryllium	mg/L	1.03	<0.00200	1.00	103	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Boron	mg/L	0.991	<0.0400	1.00	99.1	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Boron	mg/L	1.04	<0.0400	1.00	104	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Cadmium	mg/L	0.992	<0.0020	1.00	99.2	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Cadmium	mg/L	1.06	0.0448	1.00	102	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Calcium	mg/L	34.6	15.3	20.0	96.3	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Calcium	mg/L	147	128	20.0	96.9	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Chromium	mg/L	1.00	<0.0060	1.00	100	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Chromium	mg/L	1.04	0.0133	1.00	103	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Cobalt	mg/L	0.965	<0.0060	1.00	96.5	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Cobalt	mg/L	1.04	0.0523	1.00	98.5	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Copper	mg/L	0.954	<0.0100	1.00	95.4	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Copper	mg/L	1.50	0.449	1.00	106	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Iron	mg/L	9.87	<0.100	10.0	98.7	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Iron	mg/L	73.6	63.8	10.0	97.6	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Lead	mg/L	1.00	<0.0075	1.00	100	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Lead	mg/L	1.03	<0.0075	1.00	103	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Lithium	mg/L	0.954	<0.040	1.00	95.4	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Lithium	mg/L	1.08	0.046	1.00	104	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Magnesium	mg/L	19.5	<0.500	20.0	97.4	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Magnesium	mg/L	25.6	5.38	20.0	101	70 - 130	X526190 - X5F0418-04	27-Jun-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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0410**

Reported: 08-Jul-25 14:54

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	1.01	<0.0080	1.00	101	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Manganese	mg/L	3.56	2.55	1.00	102	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Molybdenum	mg/L	1.02	<0.0080	1.00	102	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Molybdenum	mg/L	1.03	<0.0080	1.00	103	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Nickel	mg/L	0.975	<0.0100	1.00	97.5	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Nickel	mg/L	1.39	0.392	1.00	100	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Potassium	mg/L	19.9	<0.50	20.0	99.6	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Potassium	mg/L	21.0	<0.50	20.0	104	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Silver	mg/L	0.0482	<0.0050	0.0500	96.4	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Silver	mg/L	0.0512	<0.0050	0.0500	102	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Sodium	mg/L	19.2	<0.50	19.0	99.4	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Sodium	mg/L	21.2	1.18	19.0	105	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Vanadium	mg/L	1.01	<0.0050	1.00	101	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Vanadium	mg/L	1.04	0.0089	1.00	104	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Zinc	mg/L	0.991	<0.0100	1.00	99.1	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Zinc	mg/L	3.69	2.68	1.00	101	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.8	Antimony	mg/L	0.0248	<0.00100	0.0250	99.3	70 - 130	X527111 - X5F0463-01	08-Jul-25	
EPA 200.8	Antimony	mg/L	0.0257	<0.00100	0.0250	103	70 - 130	X527111 - X5F0476-01	08-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0270	<0.00100	0.0250	106	70 - 130	X527111 - X5F0463-01	08-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0258	<0.00100	0.0250	103	70 - 130	X527111 - X5F0476-01	08-Jul-25	
EPA 200.8	Selenium	mg/L	0.0333	0.00737	0.0250	104	70 - 130	X527111 - X5F0463-01	08-Jul-25	
EPA 200.8	Selenium	mg/L	0.0276	<0.00100	0.0250	110	70 - 130	X527111 - X5F0476-01	08-Jul-25	
EPA 200.8	Thallium	mg/L	0.0247	<0.000200	0.0250	98.8	70 - 130	X527111 - X5F0463-01	08-Jul-25	
EPA 200.8	Thallium	mg/L	0.0236	<0.000200	0.0250	94.3	70 - 130	X527111 - X5F0476-01	08-Jul-25	
EPA 200.8	Uranium	mg/L	0.0314	0.00351	0.0250	112	70 - 130	X527111 - X5F0463-01	08-Jul-25	
EPA 200.8	Uranium	mg/L	0.0259	0.000198	0.0250	103	70 - 130	X527111 - X5F0476-01	08-Jul-25	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00217	<0.000200	0.00200	102	70 - 130	X526144 - X5F0376-01	26-Jun-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0855	<0.0050	0.100	85.5	79 - 121	X527117 - X5F0451-01	03-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	0.0138	<0.0050	0.100	13.8	90 - 110	X527003 - X5F0410-01	01-Jul-25	M2,R2B
EPA 335.4	Cyanide (total)	mg/L	0.0545	<0.0050	0.100	54.5	90 - 110	X527003 - X5F0376-02	01-Jul-25	M2
EPA 350.1	Ammonia as N	mg/L	0.990	<0.030	1.00	99.0	90 - 110	X526161 - X5F0410-02	27-Jun-25	
EPA 350.1	Ammonia as N	mg/L	0.971	<0.030	1.00	95.8	90 - 110	X526161 - X5F0410-01	27-Jun-25	
OIA 1677	Cyanide (WAD)	mg/L	0.141	<0.0050	0.100	141	82 - 118	X527060 - X5F0451-02	02-Jul-25	M1
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.17	<0.20	3.00	105	90 - 110	X526088 - X5F0389-03	25-Jun-25	
EPA 300.0	Chloride	mg/L	3.74	0.75	3.00	99.6	90 - 110	X526088 - X5F0392-01	25-Jun-25	
EPA 300.0	Fluoride	mg/L	2.03	<0.100	2.00	100	90 - 110	X526088 - X5F0389-03	25-Jun-25	
EPA 300.0	Fluoride	mg/L	2.12	0.157	2.00	98.3	90 - 110	X526088 - X5F0392-01	25-Jun-25	
EPA 300.0	Nitrate as N	mg/L	2.07	<0.050	2.00	103	90 - 110	X526088 - X5F0389-03	25-Jun-25	
EPA 300.0	Nitrate as N	mg/L	2.06	<0.050	2.00	101	90 - 110	X526088 - X5F0392-01	25-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.85	<0.100	4.00	96.4	90 - 110	X526088 - X5F0389-03	25-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.15	<0.100	4.00	103	90 - 110	X526088 - X5F0392-01	25-Jun-25	
EPA 300.0	Nitrite as N	mg/L	1.78	<0.050	2.00	89.2	90 - 110	X526088 - X5F0389-03	25-Jun-25	M2
EPA 300.0	Nitrite as N	mg/L	2.09	<0.050	2.00	105	90 - 110	X526088 - X5F0392-01	25-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	9.90	<0.30	10.0	99.0	90 - 110	X526088 - X5F0389-03	25-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	18.2	8.28	10.0	99.0	90 - 110	X526088 - X5F0392-01	25-Jun-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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0410**

Reported: 08-Jul-25 14:54

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	464	465	20.0	0.3	20	124	X527049 - X5F0410-01	M3
EPA 200.7	Magnesium	mg/L	391	384	20.0	1.7	20	0.30R>S	X527049 - X5F0410-01	
EPA 200.7	Potassium	mg/L	24.9	24.6	20.0	1.6	20	115	X527049 - X5F0410-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	0.974	1.00	3.5	20	101	X526190 - X5F0418-01	
EPA 200.7	Barium	mg/L	1.03	0.981	1.00	4.9	20	102	X526190 - X5F0418-01	
EPA 200.7	Beryllium	mg/L	1.01	1.00	1.00	1.0	20	101	X526190 - X5F0418-01	
EPA 200.7	Boron	mg/L	1.02	0.991	1.00	2.5	20	102	X526190 - X5F0418-01	
EPA 200.7	Cadmium	mg/L	0.992	0.992	1.00	0.0	20	99.2	X526190 - X5F0418-01	
EPA 200.7	Calcium	mg/L	35.0	34.6	20.0	1.1	20	98.3	X526190 - X5F0418-01	
EPA 200.7	Chromium	mg/L	1.01	1.00	1.00	1.1	20	101	X526190 - X5F0418-01	
EPA 200.7	Cobalt	mg/L	0.964	0.965	1.00	0.1	20	96.4	X526190 - X5F0418-01	
EPA 200.7	Copper	mg/L	0.965	0.954	1.00	1.1	20	96.5	X526190 - X5F0418-01	
EPA 200.7	Iron	mg/L	10.0	9.87	10.0	1.5	20	100	X526190 - X5F0418-01	
EPA 200.7	Lead	mg/L	1.00	1.00	1.00	0.2	20	100	X526190 - X5F0418-01	
EPA 200.7	Lithium	mg/L	0.985	0.954	1.00	3.3	20	98.5	X526190 - X5F0418-01	
EPA 200.7	Magnesium	mg/L	19.5	19.5	20.0	0.2	20	97.6	X526190 - X5F0418-01	
EPA 200.7	Manganese	mg/L	1.02	1.01	1.00	1.5	20	102	X526190 - X5F0418-01	
EPA 200.7	Molybdenum	mg/L	1.03	1.02	1.00	0.3	20	103	X526190 - X5F0418-01	
EPA 200.7	Nickel	mg/L	0.975	0.975	1.00	0.1	20	97.5	X526190 - X5F0418-01	
EPA 200.7	Potassium	mg/L	20.1	19.9	20.0	0.8	20	100	X526190 - X5F0418-01	
EPA 200.7	Silver	mg/L	0.0501	0.0482	0.0500	3.9	20	100	X526190 - X5F0418-01	
EPA 200.7	Sodium	mg/L	19.4	19.2	19.0	1.0	20	100	X526190 - X5F0418-01	
EPA 200.7	Vanadium	mg/L	1.03	1.01	1.00	1.6	20	103	X526190 - X5F0418-01	
EPA 200.7	Zinc	mg/L	0.993	0.991	1.00	0.2	20	99.3	X526190 - X5F0418-01	
EPA 200.8	Antimony	mg/L	0.0259	0.0257	0.0250	1.0	20	104	X527111 - X5F0476-01	
EPA 200.8	Arsenic	mg/L	0.0257	0.0258	0.0250	0.3	20	103	X527111 - X5F0476-01	
EPA 200.8	Selenium	mg/L	0.0273	0.0276	0.0250	0.9	20	109	X527111 - X5F0476-01	
EPA 200.8	Thallium	mg/L	0.0237	0.0236	0.0250	0.6	20	94.9	X527111 - X5F0476-01	
EPA 200.8	Uranium	mg/L	0.0257	0.0259	0.0250	0.6	20	102	X527111 - X5F0476-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00224	0.00217	0.00200	3.2	20	105	X526144 - X5F0376-01	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0911	0.0855	0.100	6.3	11	91.1	X527117 - X5F0451-01	
EPA 335.4	Cyanide (total)	mg/L	0.0525	0.0138	0.100	117.0	20	52.5	X527003 - X5F0410-01	M2,R2B
EPA 350.1	Ammonia as N	mg/L	0.975	0.990	1.00	1.5	20	97.5	X526161 - X5F0410-02	
OIA 1677	Cyanide (WAD)	mg/L	0.132	0.141	0.100	6.9	11	132	X527060 - X5F0451-02	M1
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.11	3.17	3.00	2.1	20	103	X526088 - X5F0389-03	
EPA 300.0	Fluoride	mg/L	2.04	2.03	2.00	0.5	20	101	X526088 - X5F0389-03	
EPA 300.0	Nitrate as N	mg/L	2.08	2.07	2.00	0.5	20	103	X526088 - X5F0389-03	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.21	3.85	4.00	8.7	20	105	X526088 - X5F0389-03	
EPA 300.0	Nitrite as N	mg/L	2.12	1.78	2.00	17.4	20	106	X526088 - X5F0389-03	
EPA 300.0	Sulfate as SO4	mg/L	9.72	9.90	10.0	1.8	20	97.2	X526088 - X5F0389-03	

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0410**

Reported: 08-Jul-25 14:54

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.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
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 <10.
Q5	Sample was received with inadequate preservation, but preserved by the laboratory.
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



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Kellogg, ID 83837-0929

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www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0451**

Reported: 08-Jul-25 15:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-34	X5F0451-01	Ground Water	25-Jun-25 10:55	TR	26-Jun-2025	Q5
GVMW-35B	X5F0451-02	Ground Water	25-Jun-25 11:45	TR	26-Jun-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: X5F0451

The state of origin only accredits for drinking water analyses.

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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0451**

Reported: 08-Jul-25 15:45

Client Sample ID: **GVMW-34**

Sampled: 25-Jun-25 10:55

Received: 26-Jun-25

Sampled By: TR

SVL Sample ID: **X5F0451-01 (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	541	mg/L	0.500	0.345	5	X527052	MAC	07/02/25 12:38	
EPA 200.7	Magnesium	378	mg/L	0.500	0.090		X527052	MAC	07/02/25 12:18	
EPA 200.7	Potassium	4.75	mg/L	0.50	0.18		X527052	MAC	07/02/25 12:18	
SM 2340 B	Hardness (as CaCO3)	2910	mg/L	3.31	1.23		N/A		06/27/25 11:09	

Metals (Dissolved)

EPA 200.7	Aluminum	25.3	mg/L	0.080	0.054		X526190	NMS	06/27/25 11:09	
EPA 200.7	Barium	0.0298	mg/L	0.0020	0.0019		X526190	NMS	06/27/25 11:09	
EPA 200.7	Beryllium	0.0225	mg/L	0.00200	0.00080		X526190	NMS	06/27/25 11:09	
EPA 200.7	Boron	0.0540	mg/L	0.0400	0.0078		X526190	NMS	06/27/25 11:09	
EPA 200.7	Cadmium	0.102	mg/L	0.0020	0.0016		X526190	NMS	06/27/25 11:09	
EPA 200.7	Calcium	554	mg/L	0.100	0.069		X526190	NMS	06/27/25 11:09	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X526190	NMS	06/27/25 11:09	
EPA 200.7	Cobalt	0.0905	mg/L	0.0060	0.0046		X526190	NMS	06/27/25 11:09	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X526190	NMS	06/27/25 11:09	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X526190	NMS	06/27/25 11:09	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X526190	NMS	06/27/25 11:09	
EPA 200.7	Lithium	0.380	mg/L	0.040	0.025		X526190	NMS	06/27/25 11:09	
EPA 200.7	Magnesium	379	mg/L	0.500	0.090		X526190	NMS	06/27/25 11:09	
EPA 200.7	Manganese	117	mg/L	0.800	0.340	100	X526190	NMS	06/27/25 11:40	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X526190	NMS	06/27/25 11:09	
EPA 200.7	Nickel	0.494	mg/L	0.0100	0.0048		X526190	NMS	06/27/25 11:09	
EPA 200.7	Potassium	4.85	mg/L	0.50	0.18		X526190	NMS	06/27/25 11:09	
EPA 200.7	Silver	0.0053	mg/L	0.0050	0.0019		X526190	NMS	06/27/25 11:09	
EPA 200.7	Sodium	51.3	mg/L	0.50	0.12		X526190	NMS	06/27/25 11:09	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X526190	NMS	06/27/25 11:09	
EPA 200.7	Zinc	12.3	mg/L	0.0100	0.0054		X526190	NMS	06/27/25 11:09	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X527111	NMS	07/08/25 09:03	
EPA 200.8	Arsenic	0.00176	mg/L	0.00100	0.00021		X527111	NMS	07/08/25 09:03	
EPA 200.8	Selenium	0.0146	mg/L	0.00100	0.00024		X527111	NMS	07/08/25 09:03	
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.000400	5	X527111	NMS	07/08/25 10:03	D17
EPA 200.8	Uranium	0.0501	mg/L	0.000500	0.000260	5	X527111	NMS	07/08/25 10:03	D17

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X526187	SJN	07/02/25 15:41	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X527117	JPM	07/03/25 14:33	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X527003	JPM	07/01/25 10:36	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X527062	JPM	07/02/25 13:35	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X527060	JPM	07/02/25 13:41	
SM 2310 B	Acidity to pH 8.3	-134	mg/L as CaCO3	10.0			X528009	MWD	07/07/25 09:39	
SM 2320 B	Total Alkalinity	136	mg/L as CaCO3	1.0			X527056	MWD	07/02/25 09:52	
SM 2320 B	Bicarbonate	136	mg/L as CaCO3	1.0			X527056	MWD	07/02/25 09:52	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X527056	MWD	07/02/25 09:52	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X527056	MWD	07/02/25 09:52	
SM 2540 C	Total Diss. Solids	4740	mg/L	40			X526168	AS	06/30/25 04:15	
SM 2540 D	Total Susp. Solids	24.0	mg/L	5.0			X526169	AS	06/30/25 01:15	
SM 4500 H B	pH @22.3°C	6.6	pH Units				X527056	MWD	07/02/25 09:52	H5



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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5F0451 Reported: 08-Jul-25 15:45
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Client Sample ID: **GVMW-34**
SVL Sample ID: **X5F0451-01 (Ground Water)**

Sampled: 25-Jun-25 10:55
Received: 26-Jun-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	25.2	mg/L	1.00	0.11	5	X526167	RS	06/26/25 19:58	
EPA 300.0	Fluoride	31.8	mg/L	0.500	0.085	5	X526167	RS	06/26/25 19:58	
EPA 300.0	Nitrate as N	10.7	mg/L	0.250	0.065	5	X526167	RS	06/26/25 19:58	
EPA 300.0	Nitrate+Nitrite as N	10.8	mg/L	0.500	0.220	5	X526167	RS	06/26/25 19:58	D18
EPA 300.0	Nitrite as N	< 0.250	mg/L	0.250	0.155	5	X526167	RS	06/26/25 19:58	D18
EPA 300.0	Sulfate as SO4	2830	mg/L	30.0	18.0	100	X526167	RS	06/27/25 14:15	

Cation/Anion Balance and TDS Ratios

Cation Sum: 68.0 meq/L	Anion Sum: 64.8 meq/L	C/A Balance: 2.39 %	Calculated TDS: 3999	TDS/cTDS: 1.19
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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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Cripple Creek & Victor Gold Mining Company
Ironclad Security 1632 County Rd 82
Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5F0451**

Reported: 08-Jul-25 15:45

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

Sampled: 25-Jun-25 11:45

Received: 26-Jun-25

Sampled By: TR

SVL Sample ID: **X5F0451-02 (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	437	mg/L	0.500	0.345	5	X527052	MAC	07/02/25 12:40	M4
EPA 200.7	Magnesium	128	mg/L	0.500	0.090		X527052	MAC	07/02/25 12:19	
EPA 200.7	Potassium	3.98	mg/L	0.50	0.18		X527052	MAC	07/02/25 12:19	
SM 2340 B	Hardness (as CaCO3)	1620	mg/L	3.31	1.23		N/A		06/27/25 11:12	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X526190	NMS	06/27/25 11:12	
EPA 200.7	Barium	0.0123	mg/L	0.0020	0.0019		X526190	NMS	06/27/25 11:12	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X526190	NMS	06/27/25 11:12	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X526190	NMS	06/27/25 11:12	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X526190	NMS	06/27/25 11:12	
EPA 200.7	Calcium	463	mg/L	0.100	0.069		X526190	NMS	06/27/25 11:12	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X526190	NMS	06/27/25 11:12	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X526190	NMS	06/27/25 11:12	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X526190	NMS	06/27/25 11:12	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X526190	NMS	06/27/25 11:12	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X526190	NMS	06/27/25 11:12	
EPA 200.7	Lithium	0.101	mg/L	0.040	0.025		X526190	NMS	06/27/25 11:12	
EPA 200.7	Magnesium	133	mg/L	0.500	0.090		X526190	NMS	06/27/25 11:12	
EPA 200.7	Manganese	0.300	mg/L	0.0080	0.0034		X526190	NMS	06/27/25 11:12	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X526190	NMS	06/27/25 11:12	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X526190	NMS	06/27/25 11:12	
EPA 200.7	Potassium	3.71	mg/L	0.50	0.18		X526190	NMS	06/27/25 11:12	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X526190	NMS	06/27/25 11:12	
EPA 200.7	Sodium	16.5	mg/L	0.50	0.12		X526190	NMS	06/27/25 11:12	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X526190	NMS	06/27/25 11:12	
EPA 200.7	Zinc	0.0161	mg/L	0.0100	0.0054		X526190	NMS	06/27/25 11:12	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X527111	NMS	07/08/25 09:25	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X527111	NMS	07/08/25 09:25	
EPA 200.8	Selenium	0.00611	mg/L	0.00100	0.00024		X527111	NMS	07/08/25 09:25	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X527111	NMS	07/08/25 09:25	
EPA 200.8	Uranium	0.00592	mg/L	0.000100	0.000052		X527111	NMS	07/08/25 09:25	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X526187	SJN	07/02/25 15:43	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X527117	JPM	07/03/25 14:36	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X527003	JPM	07/01/25 10:37	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X527062	JPM	07/02/25 13:38	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X527060	JPM	07/02/25 13:44	
SM 2310 B	Acidity to pH 8.3	-69.1	mg/L as CaCO3	10.0			X528009	MWD	07/07/25 09:39	
SM 2320 B	Total Alkalinity	65.5	mg/L as CaCO3	1.0			X527056	MWD	07/02/25 10:13	
SM 2320 B	Bicarbonate	65.5	mg/L as CaCO3	1.0			X527056	MWD	07/02/25 10:13	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X527056	MWD	07/02/25 10:13	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X527056	MWD	07/02/25 10:13	
SM 2540 C	Total Diss. Solids	2520	mg/L	40			X526168	AS	06/30/25 04:15	
SM 2540 D	Total Susp. Solids	25.0	mg/L	5.0			X526169	AS	06/30/25 01:15	
SM 4500 H B	pH @22.7°C	8.0	pH Units				X527056	MWD	07/02/25 10:13	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

Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5F0451 Reported: 08-Jul-25 15:45
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Client Sample ID: **GVMW-35B**
SVL Sample ID: **X5F0451-02 (Ground Water)**

Sampled: 25-Jun-25 11:45
Received: 26-Jun-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	86.8	mg/L	10.0	1.10	50	X526167	RS	06/26/25 20:53	
EPA 300.0	Fluoride	0.109	mg/L	0.100	0.017		X526167	RS	06/26/25 20:34	
EPA 300.0	Nitrate as N	15.0	mg/L	2.50	0.650	50	X526167	RS	06/26/25 20:53	
EPA 300.0	Nitrate+Nitrite as N	15.1	mg/L	0.100	0.044		X526167	RS	06/26/25 20:34	
EPA 300.0	Nitrite as N	0.093	mg/L	0.050	0.031		X526167	RS	06/26/25 20:34	
EPA 300.0	Sulfate as SO4	1380	mg/L	15.0	9.00	50	X526167	RS	06/26/25 20:53	

Cation/Anion Balance and TDS Ratios

Cation Sum: 33.2 meq/L	Anion Sum: 33.6 meq/L	C/A Balance: -0.57 %	Calculated TDS: 2174	TDS/cTDS: 1.16
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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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0451**

Reported: 08-Jul-25 15:45

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	X527052	02-Jul-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X527052	02-Jul-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X527052	02-Jul-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X526190	27-Jun-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X526190	27-Jun-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X526190	27-Jun-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X526190	27-Jun-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X526190	27-Jun-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X526190	27-Jun-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X526190	27-Jun-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X526190	27-Jun-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X526190	27-Jun-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X526190	27-Jun-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X526190	27-Jun-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X526190	27-Jun-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X526190	27-Jun-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X526190	27-Jun-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X526190	27-Jun-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X526190	27-Jun-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X526190	27-Jun-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X526190	27-Jun-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X526190	27-Jun-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X526190	27-Jun-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X526190	27-Jun-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X527111	08-Jul-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X527111	08-Jul-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X527111	08-Jul-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X527111	08-Jul-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X527111	08-Jul-25	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X526187	02-Jul-25	
Classical Chemistry Parameters								
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X527117	03-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X527003	01-Jul-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X527062	02-Jul-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X527060	02-Jul-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X528009	07-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X527056	01-Jul-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X527056	01-Jul-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X527056	01-Jul-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X527056	01-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X526168	30-Jun-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X526169	30-Jun-25	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X526167	26-Jun-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X526167	26-Jun-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X526167	26-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X526167	26-Jun-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X526167	26-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X526167	26-Jun-25	

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0451**

Reported: 08-Jul-25 15:45

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	19.5	20.0	98	85 - 115	X527052	02-Jul-25	
EPA 200.7	Magnesium	mg/L	19.6	20.0	98.2	85 - 115	X527052	02-Jul-25	
EPA 200.7	Potassium	mg/L	20.0	20.0	100	85 - 115	X527052	02-Jul-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.00	1.00	100	85 - 115	X526190	27-Jun-25	
EPA 200.7	Barium	mg/L	1.02	1.00	102	85 - 115	X526190	27-Jun-25	
EPA 200.7	Beryllium	mg/L	1.02	1.00	102	85 - 115	X526190	27-Jun-25	
EPA 200.7	Boron	mg/L	1.02	1.00	102	85 - 115	X526190	27-Jun-25	
EPA 200.7	Cadmium	mg/L	1.00	1.00	100	85 - 115	X526190	27-Jun-25	
EPA 200.7	Calcium	mg/L	20.4	20.0	102	85 - 115	X526190	27-Jun-25	
EPA 200.7	Chromium	mg/L	1.03	1.00	103	85 - 115	X526190	27-Jun-25	
EPA 200.7	Cobalt	mg/L	0.987	1.00	98.7	85 - 115	X526190	27-Jun-25	
EPA 200.7	Copper	mg/L	0.997	1.00	99.7	85 - 115	X526190	27-Jun-25	
EPA 200.7	Iron	mg/L	10.2	10.0	102	85 - 115	X526190	27-Jun-25	
EPA 200.7	Lead	mg/L	1.01	1.00	101	85 - 115	X526190	27-Jun-25	
EPA 200.7	Lithium	mg/L	0.995	1.00	99.5	85 - 115	X526190	27-Jun-25	
EPA 200.7	Magnesium	mg/L	19.7	20.0	98.3	85 - 115	X526190	27-Jun-25	
EPA 200.7	Manganese	mg/L	1.03	1.00	103	85 - 115	X526190	27-Jun-25	
EPA 200.7	Molybdenum	mg/L	1.05	1.00	105	85 - 115	X526190	27-Jun-25	
EPA 200.7	Nickel	mg/L	0.993	1.00	99.3	85 - 115	X526190	27-Jun-25	
EPA 200.7	Potassium	mg/L	20.5	20.0	102	85 - 115	X526190	27-Jun-25	
EPA 200.7	Silver	mg/L	0.0499	0.0500	99.9	85 - 115	X526190	27-Jun-25	
EPA 200.7	Sodium	mg/L	19.5	19.0	103	85 - 115	X526190	27-Jun-25	
EPA 200.7	Vanadium	mg/L	1.03	1.00	103	85 - 115	X526190	27-Jun-25	
EPA 200.7	Zinc	mg/L	0.993	1.00	99.3	85 - 115	X526190	27-Jun-25	
EPA 200.8	Antimony	mg/L	0.0268	0.0250	107	85 - 115	X527111	08-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0264	0.0250	105	85 - 115	X527111	08-Jul-25	
EPA 200.8	Selenium	mg/L	0.0248	0.0250	99.1	85 - 115	X527111	08-Jul-25	
EPA 200.8	Thallium	mg/L	0.0273	0.0250	109	85 - 115	X527111	08-Jul-25	
EPA 200.8	Uranium	mg/L	0.0281	0.0250	112	85 - 115	X527111	08-Jul-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00202	0.00200	101	85 - 115	X526187	02-Jul-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0937	0.100	93.7	90 - 110	X527117	03-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X527003	01-Jul-25	
EPA 350.1	Ammonia as N	mg/L	0.987	1.00	98.7	90 - 110	X527062	02-Jul-25	
OIA 1677	Cyanide (WAD)	mg/L	0.0997	0.100	99.7	90 - 110	X527060	02-Jul-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1200	1180	101	95.4 - 104	X528009	07-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.90	9.93	99.7	94 - 106	X527056	01-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	96.7	99.3	97.4	94 - 106	X527056	02-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	402	397	101	94 - 106	X527056	02-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	243	250	97.2	85 - 115	X526168	30-Jun-25	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X526169	30-Jun-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.03	3.00	101	90 - 110	X526167	26-Jun-25	
EPA 300.0	Fluoride	mg/L	2.05	2.00	103	90 - 110	X526167	26-Jun-25	
EPA 300.0	Nitrate as N	mg/L	2.02	2.00	101	90 - 110	X526167	26-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.64	4.50	103	90 - 110	X526167	26-Jun-25	
EPA 300.0	Nitrite as N	mg/L	2.62	2.50	105	90 - 110	X526167	26-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	10.0	10.0	100	90 - 110	X526167	26-Jun-25	

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0451**

Reported: 08-Jul-25 15:45

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	21700	21700	0.0	20	X528009 - X5F0376-01	07-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X527056 - X5F0376-02	02-Jul-25	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X527056 - X5F0376-02	02-Jul-25	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X527056 - X5F0376-02	02-Jul-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X527056 - X5F0376-02	02-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	627	351	56.4	10	X526168 - X5F0450-03	30-Jun-25	R2B
SM 2540 C	Total Diss. Solids	mg/L	997	973	2.4	10	X526168 - X5F0449-02	30-Jun-25	
SM 2540 D	Total Susp. Solids	mg/L	6.0	6.0	0.0	10	X526169 - X5F0449-02	30-Jun-25	
SM 4500 H B	pH @21.4°C	pH Units	4.3	4.6	7.5	20	X527056 - X5F0376-02	02-Jul-25	R2B

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	386	376	20.0	0.30R>S	70 - 130	X527052 - X5F0405-01	02-Jul-25	M3
EPA 200.7	Calcium	mg/L	465	437	20.0	0.30R>S	70 - 130	X527052 - X5F0451-02	02-Jul-25	M4
EPA 200.7	Magnesium	mg/L	51.0	32.3	20.0	93.8	70 - 130	X527052 - X5F0405-01	02-Jul-25	
EPA 200.7	Magnesium	mg/L	152	128	20.0	121	70 - 130	X527052 - X5F0451-02	02-Jul-25	
EPA 200.7	Potassium	mg/L	30.0	10.1	20.0	99.2	70 - 130	X527052 - X5F0405-01	02-Jul-25	
EPA 200.7	Potassium	mg/L	25.2	3.98	20.0	106	70 - 130	X527052 - X5F0451-02	02-Jul-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.974	<0.080	1.00	97.4	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Aluminum	mg/L	8.50	7.40	1.00	110	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Barium	mg/L	0.981	0.0101	1.00	97.1	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Barium	mg/L	1.02	0.0100	1.00	101	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Beryllium	mg/L	1.00	<0.00200	1.00	100	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Beryllium	mg/L	1.03	<0.00200	1.00	103	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Boron	mg/L	0.991	<0.0400	1.00	99.1	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Boron	mg/L	1.04	<0.0400	1.00	104	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Cadmium	mg/L	0.992	<0.0020	1.00	99.2	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Cadmium	mg/L	1.06	0.0448	1.00	102	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Calcium	mg/L	34.6	15.3	20.0	96.3	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Calcium	mg/L	147	128	20.0	96.9	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Chromium	mg/L	1.00	<0.0060	1.00	100	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Chromium	mg/L	1.04	0.0133	1.00	103	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Cobalt	mg/L	0.965	<0.0060	1.00	96.5	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Cobalt	mg/L	1.04	0.0523	1.00	98.5	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Copper	mg/L	0.954	<0.0100	1.00	95.4	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Copper	mg/L	1.50	0.449	1.00	106	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Iron	mg/L	9.87	<0.100	10.0	98.7	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Iron	mg/L	73.6	63.8	10.0	97.6	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Lead	mg/L	1.00	<0.0075	1.00	100	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Lead	mg/L	1.03	<0.0075	1.00	103	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Lithium	mg/L	0.954	<0.040	1.00	95.4	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Lithium	mg/L	1.08	0.046	1.00	104	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Magnesium	mg/L	19.5	<0.500	20.0	97.4	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Magnesium	mg/L	25.6	5.38	20.0	101	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Manganese	mg/L	1.01	<0.0080	1.00	101	70 - 130	X526190 - X5F0418-01	27-Jun-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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0451**

Reported: 08-Jul-25 15:45

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	3.56	2.55	1.00	102	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Molybdenum	mg/L	1.02	<0.0080	1.00	102	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Molybdenum	mg/L	1.03	<0.0080	1.00	103	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Nickel	mg/L	0.975	<0.0100	1.00	97.5	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Nickel	mg/L	1.39	0.392	1.00	100	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Potassium	mg/L	19.9	<0.50	20.0	99.6	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Potassium	mg/L	21.0	<0.50	20.0	104	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Silver	mg/L	0.0482	<0.0050	0.0500	96.4	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Silver	mg/L	0.0512	<0.0050	0.0500	102	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Sodium	mg/L	19.2	<0.50	19.0	99.4	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Sodium	mg/L	21.2	1.18	19.0	105	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Vanadium	mg/L	1.01	<0.0050	1.00	101	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Vanadium	mg/L	1.04	0.0089	1.00	104	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Zinc	mg/L	0.991	<0.0100	1.00	99.1	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Zinc	mg/L	3.69	2.68	1.00	101	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.8	Antimony	mg/L	0.0248	<0.00100	0.0250	99.3	70 - 130	X527111 - X5F0463-01	08-Jul-25	
EPA 200.8	Antimony	mg/L	0.0257	<0.00100	0.0250	103	70 - 130	X527111 - X5F0476-01	08-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0270	<0.00100	0.0250	106	70 - 130	X527111 - X5F0463-01	08-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0258	<0.00100	0.0250	103	70 - 130	X527111 - X5F0476-01	08-Jul-25	
EPA 200.8	Selenium	mg/L	0.0333	0.00737	0.0250	104	70 - 130	X527111 - X5F0463-01	08-Jul-25	
EPA 200.8	Selenium	mg/L	0.0276	<0.00100	0.0250	110	70 - 130	X527111 - X5F0476-01	08-Jul-25	
EPA 200.8	Thallium	mg/L	0.0247	<0.000200	0.0250	98.8	70 - 130	X527111 - X5F0463-01	08-Jul-25	
EPA 200.8	Thallium	mg/L	0.0236	<0.000200	0.0250	94.3	70 - 130	X527111 - X5F0476-01	08-Jul-25	
EPA 200.8	Uranium	mg/L	0.0314	0.00351	0.0250	112	70 - 130	X527111 - X5F0463-01	08-Jul-25	
EPA 200.8	Uranium	mg/L	0.0259	0.000198	0.0250	103	70 - 130	X527111 - X5F0476-01	08-Jul-25	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00216	<0.000200	0.00200	103	70 - 130	X526187 - X5F0449-02	02-Jul-25	
EPA 245.1	Mercury	mg/L	0.00204	<0.000200	0.00200	102	70 - 130	X526187 - X5F0478-01	02-Jul-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0855	<0.0050	0.100	85.5	79 - 121	X527117 - X5F0451-01	03-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	0.0138	<0.0050	0.100	13.8	90 - 110	X527003 - X5F0410-01	01-Jul-25	M2,R2B
EPA 335.4	Cyanide (total)	mg/L	0.0545	<0.0050	0.100	54.5	90 - 110	X527003 - X5F0376-02	01-Jul-25	M2
EPA 350.1	Ammonia as N	mg/L	1.03	<0.030	1.00	103	90 - 110	X527062 - X5F0451-01	02-Jul-25	
EPA 350.1	Ammonia as N	mg/L	1.03	<0.030	1.00	103	90 - 110	X527062 - X5F0450-02	02-Jul-25	
OIA 1677	Cyanide (WAD)	mg/L	0.141	<0.0050	0.100	141	82 - 118	X527060 - X5F0451-02	02-Jul-25	M1
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	2.99	<0.20	3.00	97.6	90 - 110	X526167 - X5F0450-08	26-Jun-25	
EPA 300.0	Chloride	mg/L	3.12	<0.20	3.00	99.5	90 - 110	X526167 - X5F0453-01	27-Jun-25	
EPA 300.0	Fluoride	mg/L	2.02	<0.100	2.00	101	90 - 110	X526167 - X5F0450-08	26-Jun-25	
EPA 300.0	Fluoride	mg/L	2.42	0.357	2.00	103	90 - 110	X526167 - X5F0453-01	27-Jun-25	
EPA 300.0	Nitrate as N	mg/L	1.99	<0.050	2.00	99.4	90 - 110	X526167 - X5F0450-08	26-Jun-25	
EPA 300.0	Nitrate as N	mg/L	2.01	<0.050	2.00	100	90 - 110	X526167 - X5F0453-01	27-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.03	<0.100	4.00	101	90 - 110	X526167 - X5F0450-08	26-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.05	<0.100	4.00	101	90 - 110	X526167 - X5F0453-01	27-Jun-25	
EPA 300.0	Nitrite as N	mg/L	2.04	<0.050	2.00	102	90 - 110	X526167 - X5F0450-08	26-Jun-25	
EPA 300.0	Nitrite as N	mg/L	2.04	<0.050	2.00	102	90 - 110	X526167 - X5F0453-01	27-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	9.85	<0.30	10.0	98.5	90 - 110	X526167 - X5F0450-08	26-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	10.4	0.51	10.0	99.4	90 - 110	X526167 - X5F0453-01	27-Jun-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



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Cripple Creek & Victor Gold Mining Company

Ironclad Security 1632 County Rd 82
Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5F0451**
Reported: 08-Jul-25 15:45

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	388	386	20.0	0.6	20	0.30R>S	X527052 - X5F0405-01	M3
EPA 200.7	Magnesium	mg/L	51.7	51.0	20.0	1.4	20	97.3	X527052 - X5F0405-01	
EPA 200.7	Potassium	mg/L	30.1	30.0	20.0	0.6	20	100	X527052 - X5F0405-01	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.01	0.974	1.00	3.5	20	101	X526190 - X5F0418-01	
EPA 200.7	Barium	mg/L	1.03	0.981	1.00	4.9	20	102	X526190 - X5F0418-01	
EPA 200.7	Beryllium	mg/L	1.01	1.00	1.00	1.0	20	101	X526190 - X5F0418-01	
EPA 200.7	Boron	mg/L	1.02	0.991	1.00	2.5	20	102	X526190 - X5F0418-01	
EPA 200.7	Cadmium	mg/L	0.992	0.992	1.00	0.0	20	99.2	X526190 - X5F0418-01	
EPA 200.7	Calcium	mg/L	35.0	34.6	20.0	1.1	20	98.3	X526190 - X5F0418-01	
EPA 200.7	Chromium	mg/L	1.01	1.00	1.00	1.1	20	101	X526190 - X5F0418-01	
EPA 200.7	Cobalt	mg/L	0.964	0.965	1.00	0.1	20	96.4	X526190 - X5F0418-01	
EPA 200.7	Copper	mg/L	0.965	0.954	1.00	1.1	20	96.5	X526190 - X5F0418-01	
EPA 200.7	Iron	mg/L	10.0	9.87	10.0	1.5	20	100	X526190 - X5F0418-01	
EPA 200.7	Lead	mg/L	1.00	1.00	1.00	0.2	20	100	X526190 - X5F0418-01	
EPA 200.7	Lithium	mg/L	0.985	0.954	1.00	3.3	20	98.5	X526190 - X5F0418-01	
EPA 200.7	Magnesium	mg/L	19.5	19.5	20.0	0.2	20	97.6	X526190 - X5F0418-01	
EPA 200.7	Manganese	mg/L	1.02	1.01	1.00	1.5	20	102	X526190 - X5F0418-01	
EPA 200.7	Molybdenum	mg/L	1.03	1.02	1.00	0.3	20	103	X526190 - X5F0418-01	
EPA 200.7	Nickel	mg/L	0.975	0.975	1.00	0.1	20	97.5	X526190 - X5F0418-01	
EPA 200.7	Potassium	mg/L	20.1	19.9	20.0	0.8	20	100	X526190 - X5F0418-01	
EPA 200.7	Silver	mg/L	0.0501	0.0482	0.0500	3.9	20	100	X526190 - X5F0418-01	
EPA 200.7	Sodium	mg/L	19.4	19.2	19.0	1.0	20	100	X526190 - X5F0418-01	
EPA 200.7	Vanadium	mg/L	1.03	1.01	1.00	1.6	20	103	X526190 - X5F0418-01	
EPA 200.7	Zinc	mg/L	0.993	0.991	1.00	0.2	20	99.3	X526190 - X5F0418-01	
EPA 200.8	Antimony	mg/L	0.0259	0.0257	0.0250	1.0	20	104	X527111 - X5F0476-01	
EPA 200.8	Arsenic	mg/L	0.0257	0.0258	0.0250	0.3	20	103	X527111 - X5F0476-01	
EPA 200.8	Selenium	mg/L	0.0273	0.0276	0.0250	0.9	20	109	X527111 - X5F0476-01	
EPA 200.8	Thallium	mg/L	0.0237	0.0236	0.0250	0.6	20	94.9	X527111 - X5F0476-01	
EPA 200.8	Uranium	mg/L	0.0257	0.0259	0.0250	0.6	20	102	X527111 - X5F0476-01	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00219	0.00216	0.00200	1.5	20	104	X526187 - X5F0449-02	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0911	0.0855	0.100	6.3	11	91.1	X527117 - X5F0451-01	
EPA 335.4	Cyanide (total)	mg/L	0.0525	0.0138	0.100	117.0	20	52.5	X527003 - X5F0410-01	M2,R2B
EPA 350.1	Ammonia as N	mg/L	1.05	1.03	1.00	1.9	20	105	X527062 - X5F0451-01	
OIA 1677	Cyanide (WAD)	mg/L	0.132	0.141	0.100	6.9	11	132	X527060 - X5F0451-02	M1

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.03	2.99	3.00	1.3	20	98.9	X526167 - X5F0450-08	
EPA 300.0	Fluoride	mg/L	2.04	2.02	2.00	1.4	20	102	X526167 - X5F0450-08	
EPA 300.0	Nitrate as N	mg/L	2.02	1.99	2.00	1.5	20	101	X526167 - X5F0450-08	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.08	4.03	4.00	1.2	20	102	X526167 - X5F0450-08	
EPA 300.0	Nitrite as N	mg/L	2.06	2.04	2.00	0.9	20	103	X526167 - X5F0450-08	
EPA 300.0	Sulfate as SO4	mg/L	10.0	9.85	10.0	1.9	20	100	X526167 - X5F0450-08	

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0451**

Reported: 08-Jul-25 15:45

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.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
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.
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



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www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0019**

Reported: 16-Jul-25 08:42

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GV-6	X5G0019-01	Surface Water	30-Jun-25 10:30	TR	01-Jul-2025	
GV-4.5	X5G0019-02	Surface Water	30-Jun-25 10:58	TR	01-Jul-2025	
GV-5	X5G0019-03	Surface Water	30-Jun-25 11:13	TR	01-Jul-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: X5G0019

The state of origin only accredits for drinking water analyses.

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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0019**

Reported: 16-Jul-25 08:42

Client Sample ID: **GV-6**

Sampled: 30-Jun-25 10:30

Received: 01-Jul-25

Sampled By: TR

SVL Sample ID: **X5G0019-01 (Surface Water)****Sample Report Page 1 of 2**

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

EPA 1631E	Mercury	2.36	ng/L	0.500	0.120		X527158	SJN	07/09/25 14:41	
EPA 245.1	Mercury	< 0.000093	mg/L	0.000200	0.000093		X527097	SJN	07/02/25 13:19	U

Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Barium	0.334	mg/L	0.0100	0.0095	5	X528026	MAC	07/08/25 13:19	D11
EPA 200.7	Beryllium	< 0.0100	mg/L	0.0100	0.00400	5	X528026	MAC	07/08/25 13:19	D11
EPA 200.7	Boron	< 0.200	mg/L	0.200	0.0390	5	X528026	MAC	07/08/25 13:19	D11
EPA 200.7	Calcium	50.6	mg/L	0.500	0.345	5	X528026	MAC	07/08/25 13:19	D11
EPA 200.7	Chromium	< 0.0300	mg/L	0.0300	0.0100	5	X528026	MAC	07/08/25 13:19	D11
EPA 200.7	Iron	12.2	mg/L	0.500	0.280	5	X528026	MAC	07/08/25 13:19	D11
EPA 200.7	Magnesium	11.3	mg/L	2.50	0.450	5	X528026	MAC	07/08/25 13:19	D11
EPA 200.7	Manganese	2.53	mg/L	0.0400	0.0170	5	X528026	MAC	07/08/25 13:19	D11
EPA 200.7	Molybdenum	< 0.0400	mg/L	0.0400	0.0170	5	X528026	MAC	07/08/25 13:19	D11
EPA 200.7	Nickel	< 0.0500	mg/L	0.0500	0.0240	5	X528026	MAC	07/08/25 13:19	D11
EPA 200.7	Phosphorus	0.413	mg/L	0.250	0.065	5	X528026	MAC	07/08/25 13:19	D11
EPA 200.7	Potassium	< 2.50	mg/L	2.50	0.90	5	X528026	MAC	07/08/25 13:19	D11
EPA 200.7	Sodium	13.5	mg/L	2.50	0.60	5	X528026	MAC	07/08/25 13:19	D11
EPA 200.7	Zinc	0.0567	mg/L	0.0500	0.0270	5	X528026	MAC	07/08/25 13:19	D11
EPA 200.8	Antimony	< 0.00500	mg/L	0.00500	0.00360	5	X528029	SMU	07/09/25 11:02	D14
EPA 200.8	Arsenic	< 0.00500	mg/L	0.00500	0.00105	5	X528029	SMU	07/09/25 11:02	D14
EPA 200.8	Cadmium	< 0.000500	mg/L	0.000500	0.000315	5	X528029	SMU	07/09/25 11:02	D14
EPA 200.8	Chromium	< 0.00500	mg/L	0.00500	0.00085	5	X528029	SMU	07/09/25 11:02	D14
EPA 200.8	Copper	0.00532	mg/L	0.00200	0.00180	5	X528029	SMU	07/09/25 11:02	D14
EPA 200.8	Lead	0.00724	mg/L	0.00100	0.00070	5	X528029	SMU	07/09/25 11:02	D14
EPA 200.8	Selenium	< 0.00500	mg/L	0.00500	0.00120	5	X528029	SMU	07/09/25 11:02	D14
SM 2340 B	Hardness (as CaCO3)	172	mg/L	3.31	1.23		N/A		07/08/25 13:19	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X527141	JRR	07/08/25 08:43	
EPA 200.7	Barium	0.115	mg/L	0.0020	0.0019		X527141	JRR	07/08/25 08:43	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X527141	JRR	07/08/25 08:43	
EPA 200.7	Calcium	47.0	mg/L	0.100	0.069		X527141	JRR	07/08/25 08:43	
EPA 200.7	Iron	0.263	mg/L	0.100	0.056		X527141	JRR	07/08/25 08:43	
EPA 200.7	Magnesium	11.0	mg/L	0.500	0.090		X527141	JRR	07/08/25 08:43	
EPA 200.7	Manganese	0.513	mg/L	0.0080	0.0034		X527141	JRR	07/08/25 08:43	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X527141	JRR	07/08/25 08:43	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X527141	JRR	07/08/25 08:43	
EPA 200.7	Potassium	1.06	mg/L	0.50	0.18		X527141	JRR	07/08/25 08:43	
EPA 200.7	Sodium	12.4	mg/L	0.50	0.12		X527141	JRR	07/08/25 08:43	
EPA 200.7	Zinc	0.0194	mg/L	0.0100	0.0054		X527141	JRR	07/08/25 08:43	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X528145	SMU	07/11/25 13:35	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X528145	SMU	07/11/25 13:35	
EPA 200.8	Cadmium	0.000226	mg/L	0.000100	0.000063		X528145	SMU	07/11/25 13:35	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X528145	SMU	07/11/25 13:35	
EPA 200.8	Copper	0.00238	mg/L	0.00040	0.00036		X528145	SMU	07/11/25 13:35	
EPA 200.8	Lead	0.00023	mg/L	0.00020	0.00014		X528145	SMU	07/11/25 13:35	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X528145	SMU	07/11/25 13:35	
EPA 200.8	Silver	< 0.00008	mg/L	0.00008	0.000061		X528145	SMU	07/11/25 13:35	
EPA 200.8	Thallium	0.000237	mg/L	0.000200	0.00008		X528145	SMU	07/11/25 13:35	
EPA 200.8	Uranium	0.00172	mg/L	0.000100	0.000052		X528145	SMU	07/11/25 13:35	

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

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Cripple Creek & Victor Gold Mining Company
 Ironclad Security 1632 County Rd 82
 Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0019**

Reported: 16-Jul-25 08:42

Client Sample ID: **GV-6**

Sampled: 30-Jun-25 10:30

SVL Sample ID: **X5G0019-01 (Surface Water)**

Received: 01-Jul-25

Sampled By: TR

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X527117	JPM	07/03/25 15:12	
Calculation	Chromium(III)	< 0.0350	mg/L	0.0350	0.0119		N/A		07/15/25 13:00	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X528067	JPM	07/09/25 08:27	
EPA 350.1	Ammonia as N	0.034	mg/L	0.030	0.013		X528007	ORW	07/08/25 08:37	
EPA 351.2	TKN	0.84	mg/L	0.50	0.31		X528106	JPM	07/10/25 09:54	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X528001	JPM	07/07/25 08:45	
SM 2310 B	Acidity to pH 8.3	-106	mg/L as CaCO3	10.0			X528010	MWD	07/07/25 09:44	
SM 2320 B	Total Alkalinity	105	mg/L as CaCO3	1.0			X527130	MWD	07/03/25 12:13	
SM 2320 B	Bicarbonate	105	mg/L as CaCO3	1.0			X527130	MWD	07/03/25 12:13	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X527130	MWD	07/03/25 12:13	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X527130	MWD	07/03/25 12:13	
SM 2540 C	Total Diss. Solids	258	mg/L	10			X527123	TJL	07/03/25 13:10	
SM 2540 D	Total Susp. Solids	25.0	mg/L	5.0			X527124	TJL	07/03/25 12:45	
SM 4500 H B	pH @22.2°C	7.4	pH Units				X527130	MWD	07/03/25 12:13	H5
SM 4500 S D	Sulfide	< 0.050	mg/L	0.050	0.020		X528011	CND	07/07/25 12:37	
SM 4500-O-G	Dissolved Oxygen	8.1	mg/L	0.1			X528046	TJL	07/07/25 13:00	H5

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	< 0.0050	mg/L	0.0050	0.0019		X529057	CND	07/15/25 13:00	
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Filtered Classical Chemistry Parameters

Calculation	Chromium(III)-Dissolved	< 0.00600	mg/L	0.00600	0.00207		N/A		07/15/25 13:00	
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Anions by Ion Chromatography

EPA 300.0	Chloride	6.96	mg/L	0.20	0.02		X527086	RS	07/01/25 18:16	
EPA 300.0	Fluoride	0.645	mg/L	0.100	0.017		X527086	RS	07/01/25 18:16	
EPA 300.0	Nitrate as N	0.141	mg/L	0.050	0.013		X527086	RS	07/01/25 18:16	
EPA 300.0	Nitrate+Nitrite as N	0.153	mg/L	0.100	0.044		X527086	RS	07/01/25 18:16	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X527086	RS	07/01/25 18:16	
EPA 300.0	Sulfate as SO4	78.9	mg/L	3.00	1.80	10	X527086	RS	07/01/25 18:32	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.85 meq/L Anion Sum: 3.98 meq/L C/A Balance: -1.67 % Calculated TDS: 224 TDS/cTDS: 1.15

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

Kristi A. Groth

Kristi A. Groth
 Project Manager

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0019**

Reported: 16-Jul-25 08:42

Client Sample ID: **GV-4.5**

Sampled: 30-Jun-25 10:58

Received: 01-Jul-25

Sampled By: TR

SVL Sample ID: **X5G0019-02 (Surface Water)****Sample Report Page 1 of 2**

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

EPA 1631E	Mercury	0.755	ng/L	0.500	0.120		X527158	SJN	07/09/25 14:46	
EPA 245.1	Mercury	< 0.000093	mg/L	0.000200	0.000093		X527097	SJN	07/02/25 13:25	U

Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Barium	0.112	mg/L	0.0100	0.0095	5	X528026	MAC	07/08/25 13:23	D11
EPA 200.7	Beryllium	< 0.0100	mg/L	0.0100	0.00400	5	X528026	MAC	07/08/25 13:23	D11
EPA 200.7	Boron	< 0.200	mg/L	0.200	0.0390	5	X528026	MAC	07/08/25 13:23	D11
EPA 200.7	Calcium	43.9	mg/L	0.500	0.345	5	X528026	MAC	07/08/25 13:23	D11
EPA 200.7	Chromium	< 0.0300	mg/L	0.0300	0.0100	5	X528026	MAC	07/08/25 13:23	D11
EPA 200.7	Iron	12.0	mg/L	0.500	0.280	5	X528026	MAC	07/08/25 13:23	D11
EPA 200.7	Magnesium	9.46	mg/L	2.50	0.450	5	X528026	MAC	07/08/25 13:23	D11
EPA 200.7	Manganese	0.635	mg/L	0.0400	0.0170	5	X528026	MAC	07/08/25 13:23	D11
EPA 200.7	Molybdenum	< 0.0400	mg/L	0.0400	0.0170	5	X528026	MAC	07/08/25 13:23	D11
EPA 200.7	Nickel	< 0.0500	mg/L	0.0500	0.0240	5	X528026	MAC	07/08/25 13:23	D11
EPA 200.7	Phosphorus	< 0.250	mg/L	0.250	0.065	5	X528026	MAC	07/08/25 13:23	D11
EPA 200.7	Potassium	< 2.50	mg/L	2.50	0.90	5	X528026	MAC	07/08/25 13:23	D11
EPA 200.7	Sodium	14.3	mg/L	2.50	0.60	5	X528026	MAC	07/08/25 13:23	D11
EPA 200.7	Zinc	< 0.0500	mg/L	0.0500	0.0270	5	X528026	MAC	07/08/25 13:23	D11
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X528029	SMU	07/09/25 11:05	
EPA 200.8	Arsenic	0.00117	mg/L	0.00100	0.00021		X528029	SMU	07/09/25 11:05	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X528029	SMU	07/09/25 11:05	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X528029	SMU	07/09/25 11:05	
EPA 200.8	Copper	0.00142	mg/L	0.00040	0.00036		X528029	SMU	07/09/25 11:05	
EPA 200.8	Lead	0.00078	mg/L	0.00020	0.00014		X528029	SMU	07/09/25 11:05	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X528029	SMU	07/09/25 11:05	
SM 2340 B	Hardness (as CaCO3)	145	mg/L	10.5	2.03		N/A		07/08/25 09:01	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X527141	JRR	07/08/25 09:01	
EPA 200.7	Barium	0.0891	mg/L	0.0020	0.0019		X527141	JRR	07/08/25 09:01	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X527141	JRR	07/08/25 09:01	
EPA 200.7	Calcium	42.5	mg/L	0.100	0.069		X527141	JRR	07/08/25 09:01	
EPA 200.7	Iron	2.25	mg/L	0.100	0.056		X527141	JRR	07/08/25 09:01	
EPA 200.7	Magnesium	9.46	mg/L	0.500	0.090		X527141	JRR	07/08/25 09:01	
EPA 200.7	Manganese	0.594	mg/L	0.0080	0.0034		X527141	JRR	07/08/25 09:01	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X527141	JRR	07/08/25 09:01	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X527141	JRR	07/08/25 09:01	
EPA 200.7	Potassium	1.16	mg/L	0.50	0.18		X527141	JRR	07/08/25 09:01	
EPA 200.7	Sodium	13.7	mg/L	0.50	0.12		X527141	JRR	07/08/25 09:01	
EPA 200.7	Zinc	0.0124	mg/L	0.0100	0.0054		X527141	JRR	07/08/25 09:01	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X528145	SMU	07/11/25 13:44	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X528145	SMU	07/11/25 13:44	
EPA 200.8	Cadmium	0.000208	mg/L	0.000100	0.000063		X528145	SMU	07/11/25 13:44	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X528145	SMU	07/11/25 13:44	
EPA 200.8	Copper	0.00050	mg/L	0.00040	0.00036		X528145	SMU	07/11/25 13:44	
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X528145	SMU	07/11/25 13:44	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X528145	SMU	07/11/25 13:44	
EPA 200.8	Silver	< 0.00008	mg/L	0.00008	0.000061		X528145	SMU	07/11/25 13:44	
EPA 200.8	Thallium	0.000217	mg/L	0.000200	0.00008		X528145	SMU	07/11/25 13:44	
EPA 200.8	Uranium	0.000484	mg/L	0.000100	0.000052		X528145	SMU	07/11/25 13:44	

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
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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5G0019 Reported: 16-Jul-25 08:42
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Client Sample ID: **GV-4.5**
SVL Sample ID: **X5G0019-02 (Surface Water)**

Sampled: 30-Jun-25 10:58
Received: 01-Jul-25
Sampled By: TR

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X527117	JPM	07/03/25 15:15	
Calculation	Chromium(III)	< 0.0350	mg/L	0.0350	0.0119		N/A		07/15/25 13:00	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X528067	JPM	07/09/25 08:29	M2,R2B
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X528007	ORW	07/08/25 08:39	
EPA 351.2	TKN	< 0.50	mg/L	0.50	0.31		X528106	JPM	07/10/25 09:57	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X528001	JPM	07/07/25 08:48	
SM 2310 B	Acidity to pH 8.3	-106	mg/L as CaCO3	10.0			X528010	MWD	07/07/25 09:44	
SM 2320 B	Total Alkalinity	99.3	mg/L as CaCO3	1.0			X527130	MWD	07/03/25 12:19	
SM 2320 B	Bicarbonate	99.3	mg/L as CaCO3	1.0			X527130	MWD	07/03/25 12:19	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X527130	MWD	07/03/25 12:19	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X527130	MWD	07/03/25 12:19	
SM 2540 C	Total Diss. Solids	221	mg/L	10			X527123	TJL	07/03/25 13:10	
SM 2540 D	Total Susp. Solids	31.0	mg/L	5.0			X527124	TJL	07/03/25 12:45	
SM 4500 H B	pH @22.3°C	6.7	pH Units				X527130	MWD	07/03/25 12:19	H5
SM 4500 S D	Sulfide	< 0.050	mg/L	0.050	0.020		X528011	CND	07/07/25 12:37	
SM 4500-O-G	Dissolved Oxygen	7.7	mg/L	0.1			X528046	TJL	07/07/25 13:00	H5

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	< 0.0050	mg/L	0.0050	0.0019		X529057	CND	07/15/25 13:00	
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Filtered Classical Chemistry Parameters

Calculation	Chromium(III)-Dissolved	< 0.00600	mg/L	0.00600	0.00207		N/A		07/15/25 13:00	
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Anions by Ion Chromatography

EPA 300.0	Chloride	28.9	mg/L	2.00	0.22	10	X527086	RS	07/01/25 20:43	
EPA 300.0	Fluoride	0.510	mg/L	0.100	0.017		X527086	RS	07/01/25 20:27	
EPA 300.0	Nitrate as N	0.185	mg/L	0.050	0.013		X527086	RS	07/01/25 20:27	
EPA 300.0	Nitrate+Nitrite as N	0.185	mg/L	0.100	0.044		X527086	RS	07/01/25 20:27	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X527086	RS	07/01/25 20:27	
EPA 300.0	Sulfate as SO4	41.9	mg/L	0.30	0.18		X527086	RS	07/01/25 20:27	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.63 meq/L	Anion Sum: 3.71 meq/L	C/A Balance: -1.14 %	Calculated TDS: 199	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



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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Cripple Creek & Victor Gold Mining Company
Ironclad Security 1632 County Rd 82
Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5G0019**

Reported: 16-Jul-25 08:42

Client Sample ID: **GV-5**

Sampled: 30-Jun-25 11:13

Received: 01-Jul-25

Sampled By: TR

SVL Sample ID: **X5G0019-03 (Surface Water)**

Sample Report Page 1 of 2

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

EPA 1631E	Mercury	1.48	ng/L	0.500	0.120		X527155	SJN	07/07/25 15:34	M1
EPA 245.1	Mercury	< 0.000093	mg/L	0.000200	0.000093		X527097	SJN	07/02/25 13:27	U

Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Barium	0.0673	mg/L	0.0100	0.0095	5	X528026	MAC	07/08/25 12:35	D11
EPA 200.7	Beryllium	< 0.0100	mg/L	0.0100	0.00400	5	X528026	MAC	07/08/25 12:35	D11
EPA 200.7	Boron	< 0.200	mg/L	0.200	0.0390	5	X528026	MAC	07/08/25 12:35	D11
EPA 200.7	Calcium	42.3	mg/L	0.500	0.345	5	X528026	MAC	07/08/25 12:35	D11
EPA 200.7	Chromium	< 0.0300	mg/L	0.0300	0.0100	5	X528026	MAC	07/08/25 12:35	D11
EPA 200.7	Iron	5.04	mg/L	0.500	0.280	5	X528026	MAC	07/08/25 12:35	D11
EPA 200.7	Magnesium	9.73	mg/L	2.50	0.450	5	X528026	MAC	07/08/25 12:35	D11
EPA 200.7	Manganese	1.27	mg/L	0.0400	0.0170	5	X528026	MAC	07/08/25 12:35	D11
EPA 200.7	Molybdenum	< 0.0400	mg/L	0.0400	0.0170	5	X528026	MAC	07/08/25 12:35	D11
EPA 200.7	Nickel	< 0.0500	mg/L	0.0500	0.0240	5	X528026	MAC	07/08/25 12:35	D11
EPA 200.7	Phosphorus	< 0.250	mg/L	0.250	0.065	5	X528026	MAC	07/08/25 12:35	D11
EPA 200.7	Potassium	< 2.50	mg/L	2.50	0.90	5	X528026	MAC	07/08/25 12:35	D11
EPA 200.7	Sodium	12.8	mg/L	2.50	0.60	5	X528026	MAC	07/08/25 12:35	D11
EPA 200.7	Zinc	< 0.0500	mg/L	0.0500	0.0270	5	X528026	MAC	07/08/25 12:35	D11
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X528029	SMU	07/09/25 11:08	
EPA 200.8	Arsenic	0.00171	mg/L	0.00100	0.00021		X528029	SMU	07/09/25 11:08	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X528029	SMU	07/09/25 11:08	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X528029	SMU	07/09/25 11:08	
EPA 200.8	Copper	0.00107	mg/L	0.00040	0.00036		X528029	SMU	07/09/25 11:08	
EPA 200.8	Lead	0.00153	mg/L	0.00020	0.00014		X528029	SMU	07/09/25 11:08	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X528029	SMU	07/09/25 11:08	
SM 2340 B	Hardness (as CaCO3)	155	mg/L	2.31	0.543		N/A		07/08/25 12:35	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X527141	JRR	07/08/25 09:13	
EPA 200.7	Barium	0.0295	mg/L	0.0020	0.0019		X527141	JRR	07/08/25 09:13	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X527141	JRR	07/08/25 09:13	
EPA 200.7	Calcium	44.5	mg/L	0.100	0.069		X527141	JRR	07/08/25 09:13	
EPA 200.7	Iron	0.120	mg/L	0.100	0.056		X527141	JRR	07/08/25 09:13	
EPA 200.7	Magnesium	10.6	mg/L	0.500	0.090		X527141	JRR	07/08/25 09:13	
EPA 200.7	Manganese	0.218	mg/L	0.0080	0.0034		X527141	JRR	07/08/25 09:13	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X527141	JRR	07/08/25 09:13	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X527141	JRR	07/08/25 09:13	
EPA 200.7	Potassium	1.02	mg/L	0.50	0.18		X527141	JRR	07/08/25 09:13	
EPA 200.7	Sodium	13.2	mg/L	0.50	0.12		X527141	JRR	07/08/25 09:13	
EPA 200.7	Zinc	0.0153	mg/L	0.0100	0.0054		X527141	JRR	07/08/25 09:13	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X528145	SMU	07/11/25 13:48	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X528145	SMU	07/11/25 13:48	
EPA 200.8	Cadmium	0.000186	mg/L	0.000100	0.000063		X528145	SMU	07/11/25 13:48	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X528145	SMU	07/11/25 13:48	
EPA 200.8	Copper	0.00061	mg/L	0.00040	0.00036		X528145	SMU	07/11/25 13:48	
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X528145	SMU	07/11/25 13:48	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X528145	SMU	07/11/25 13:48	
EPA 200.8	Silver	< 0.00008	mg/L	0.00008	0.000061		X528145	SMU	07/11/25 13:48	
EPA 200.8	Thallium	0.000207	mg/L	0.000200	0.00008		X528145	SMU	07/11/25 13:48	
EPA 200.8	Uranium	0.00110	mg/L	0.000100	0.000052		X528145	SMU	07/11/25 13:48	

SVL holds the following certifications:

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

Work order Report Page 6 of 15



Cripple Creek & Victor Gold Mining Company
 Ironclad Security 1632 County Rd 82
 Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5G0019**

Reported: 16-Jul-25 08:42

Client Sample ID: **GV-5**

Sampled: 30-Jun-25 11:13

SVL Sample ID: **X5G0019-03 (Surface Water)**

Received: 01-Jul-25

Sampled By: TR

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X527117	JPM	07/03/25 15:18	
Calculation	Chromium(III)	< 0.0350	mg/L	0.0350	0.0119		N/A		07/15/25 13:00	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X528067	JPM	07/09/25 08:31	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X528007	ORW	07/08/25 08:42	
EPA 351.2	TKN	0.57	mg/L	0.50	0.31		X528106	JPM	07/10/25 10:09	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X528001	JPM	07/07/25 08:51	
SM 2310 B	Acidity to pH 8.3	-106	mg/L as CaCO3	10.0			X528010	MWD	07/07/25 09:44	
SM 2320 B	Total Alkalinity	108	mg/L as CaCO3	1.0			X527130	MWD	07/03/25 12:24	
SM 2320 B	Bicarbonate	108	mg/L as CaCO3	1.0			X527130	MWD	07/03/25 12:24	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X527130	MWD	07/03/25 12:24	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X527130	MWD	07/03/25 12:24	
SM 2540 C	Total Diss. Solids	239	mg/L	10			X527123	TJL	07/03/25 13:10	
SM 2540 D	Total Susp. Solids	27.0	mg/L	5.0			X527124	TJL	07/03/25 12:45	
SM 4500 H B	pH @22.4°C	7.8	pH Units				X527130	MWD	07/03/25 12:24	H5
SM 4500 S D	Sulfide	< 0.050	mg/L	0.050	0.020		X528011	CND	07/07/25 12:38	
SM 4500-O-G	Dissolved Oxygen	7.9	mg/L	0.1			X528046	TJL	07/07/25 13:00	H5

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	< 0.0050	mg/L	0.0050	0.0019		X529057	CND	07/15/25 13:00	M2
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Filtered Classical Chemistry Parameters

Calculation	Chromium(III)-Dissolved	< 0.00600	mg/L	0.00600	0.00207		N/A		07/15/25 13:00	
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Anions by Ion Chromatography

EPA 300.0	Chloride	8.08	mg/L	0.20	0.02		X527086	RS	07/01/25 20:59	
EPA 300.0	Fluoride	0.608	mg/L	0.100	0.017		X527086	RS	07/01/25 20:59	
EPA 300.0	Nitrate as N	0.109	mg/L	0.050	0.013		X527086	RS	07/01/25 20:59	
EPA 300.0	Nitrate+Nitrite as N	0.123	mg/L	0.100	0.044		X527086	RS	07/01/25 20:59	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X527086	RS	07/01/25 20:59	
EPA 300.0	Sulfate as SO4	66.3	mg/L	3.00	1.80	10	X527086	RS	07/01/25 21:16	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.51 meq/L Anion Sum: 3.81 meq/L C/A Balance: -4.05 % Calculated TDS: 207 TDS/cTDS: 1.15

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

Kristi A. Groth

Kristi A. Groth
 Project Manager

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0019**

Reported: 16-Jul-25 08:42

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total)								
EPA 1631E	Mercury	ng/L	<0.500	0.120	0.500	X527155	07-Jul-25	
EPA 1631E	Mercury	ng/L	<0.500	0.120	0.500	X527155	07-Jul-25	
EPA 1631E	Mercury	ng/L	<0.500	0.120	0.500	X527155	07-Jul-25	
EPA 1631E	Mercury	ng/L	<0.500	0.120	0.500	X527158	09-Jul-25	
EPA 1631E	Mercury	ng/L	<0.500	0.120	0.500	X527158	09-Jul-25	
EPA 1631E	Mercury	ng/L	<0.500	0.120	0.500	X527158	09-Jul-25	
EPA 245.1	Mercury	mg/L	<0.000093	0.000093	0.000200	X527097	02-Jul-25	U
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X528026	08-Jul-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X528026	08-Jul-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X528026	08-Jul-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X528026	08-Jul-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X528026	08-Jul-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X528026	08-Jul-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X528026	08-Jul-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X528026	08-Jul-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X528026	08-Jul-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X528026	08-Jul-25	
EPA 200.7	Phosphorus	mg/L	<0.050	0.013	0.050	X528026	08-Jul-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X528026	08-Jul-25	
EPA 200.7	Sodium	mg/L	<0.12	0.12	0.50	X528026	08-Jul-25	U
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X528026	08-Jul-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X528029	09-Jul-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X528029	09-Jul-25	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X528029	09-Jul-25	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X528029	09-Jul-25	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X528029	09-Jul-25	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X528029	09-Jul-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X528029	09-Jul-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X527141	08-Jul-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X527141	08-Jul-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X527141	08-Jul-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X527141	08-Jul-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X527141	08-Jul-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X527141	08-Jul-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X527141	08-Jul-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X527141	08-Jul-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X527141	08-Jul-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X527141	08-Jul-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X527141	08-Jul-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X527141	08-Jul-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X528145	11-Jul-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X528145	11-Jul-25	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X528145	11-Jul-25	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X528145	11-Jul-25	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X528145	11-Jul-25	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X528145	11-Jul-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X528145	11-Jul-25	
EPA 200.8	Silver	mg/L	<0.00008	0.000061	0.00008	X528145	11-Jul-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X528145	11-Jul-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X528145	11-Jul-25	
Classical Chemistry Parameters								
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X527117	03-Jul-25	

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0019**

Reported: 16-Jul-25 08:42

Quality Control - BLANK Data (Continued)

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
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Classical Chemistry Parameters (Continued)

EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X528067	09-Jul-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X528007	08-Jul-25	
EPA 351.2	TKN	mg/L	<0.50	0.31	0.50	X528106	10-Jul-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X528001	07-Jul-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X528010	07-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X527130	03-Jul-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X527130	03-Jul-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X527130	03-Jul-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X527130	03-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X527123	03-Jul-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X527124	03-Jul-25	
SM 4500 S D	Sulfide	mg/L	<0.050	0.020	0.050	X528011	07-Jul-25	

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	mg/L	<0.0050	0.0019	0.0050	X529057	15-Jul-25	
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Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X527086	02-Jul-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X527086	01-Jul-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X527086	01-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X527086	01-Jul-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X527086	01-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X527086	01-Jul-25	

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)

EPA 1631E	Mercury	ng/L	4.87	5.00	97.4	77 - 123	X527155	07-Jul-25	
EPA 1631E	Mercury	ng/L	4.91	5.00	98.2	77 - 123	X527158	09-Jul-25	
EPA 245.1	Mercury	mg/L	0.00213	0.00200	106	85 - 115	X527097	02-Jul-25	

Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Barium	mg/L	1.01	1.00	101	85 - 115	X528026	08-Jul-25	
EPA 200.7	Beryllium	mg/L	0.936	1.00	93.6	85 - 115	X528026	08-Jul-25	
EPA 200.7	Boron	mg/L	0.969	1.00	96.9	85 - 115	X528026	08-Jul-25	
EPA 200.7	Calcium	mg/L	19.6	20.0	98	85 - 115	X528026	08-Jul-25	
EPA 200.7	Chromium	mg/L	0.971	1.00	97.1	85 - 115	X528026	08-Jul-25	
EPA 200.7	Iron	mg/L	9.91	10.0	99.1	85 - 115	X528026	08-Jul-25	
EPA 200.7	Magnesium	mg/L	19.3	20.0	96.5	85 - 115	X528026	08-Jul-25	
EPA 200.7	Manganese	mg/L	0.959	1.00	95.9	85 - 115	X528026	08-Jul-25	
EPA 200.7	Molybdenum	mg/L	0.983	1.00	98.3	85 - 115	X528026	08-Jul-25	
EPA 200.7	Nickel	mg/L	0.916	1.00	91.6	85 - 115	X528026	08-Jul-25	
EPA 200.7	Phosphorus	mg/L	1.01	1.00	101	85 - 115	X528026	08-Jul-25	
EPA 200.7	Potassium	mg/L	19.7	20.0	98.4	85 - 115	X528026	08-Jul-25	
EPA 200.7	Sodium	mg/L	18.7	19.0	98.2	85 - 115	X528026	08-Jul-25	
EPA 200.7	Zinc	mg/L	0.943	1.00	94.3	85 - 115	X528026	08-Jul-25	
EPA 200.8	Antimony	mg/L	0.0241	0.0250	96.2	85 - 115	X528029	09-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0238	0.0250	95.0	85 - 115	X528029	09-Jul-25	
EPA 200.8	Cadmium	mg/L	0.0237	0.0250	94.6	85 - 115	X528029	09-Jul-25	
EPA 200.8	Chromium	mg/L	0.0241	0.0250	96.3	85 - 115	X528029	09-Jul-25	
EPA 200.8	Copper	mg/L	0.0246	0.0250	98.6	85 - 115	X528029	09-Jul-25	
EPA 200.8	Lead	mg/L	0.0237	0.0250	95.0	85 - 115	X528029	09-Jul-25	
EPA 200.8	Selenium	mg/L	0.0234	0.0250	93.5	85 - 115	X528029	09-Jul-25	

SVL holds the following certifications:

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

Work order Report Page 9 of 15



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net
Cripple Creek & Victor Gold Mining Company

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5G0019**

Reported: 16-Jul-25 08:42

Quality Control - LABORATORY CONTROL SAMPLE Data				(Continued)					
Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.910	1.00	91.0	85 - 115	X527141	08-Jul-25	
EPA 200.7	Barium	mg/L	0.946	1.00	94.6	85 - 115	X527141	08-Jul-25	
EPA 200.7	Beryllium	mg/L	0.911	1.00	91.1	85 - 115	X527141	08-Jul-25	
EPA 200.7	Calcium	mg/L	18.5	20.0	92.7	85 - 115	X527141	08-Jul-25	
EPA 200.7	Iron	mg/L	9.31	10.0	93.1	85 - 115	X527141	08-Jul-25	
EPA 200.7	Magnesium	mg/L	18.1	20.0	90.3	85 - 115	X527141	08-Jul-25	
EPA 200.7	Manganese	mg/L	0.929	1.00	92.9	85 - 115	X527141	08-Jul-25	
EPA 200.7	Molybdenum	mg/L	0.929	1.00	92.9	85 - 115	X527141	08-Jul-25	
EPA 200.7	Nickel	mg/L	0.884	1.00	88.4	85 - 115	X527141	08-Jul-25	
EPA 200.7	Potassium	mg/L	18.7	20.0	93.7	85 - 115	X527141	08-Jul-25	
EPA 200.7	Sodium	mg/L	17.6	19.0	92.9	85 - 115	X527141	08-Jul-25	
EPA 200.7	Zinc	mg/L	0.896	1.00	89.6	85 - 115	X527141	08-Jul-25	
EPA 200.8	Antimony	mg/L	0.0249	0.0250	99.5	85 - 115	X528145	11-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0256	0.0250	102	85 - 115	X528145	11-Jul-25	
EPA 200.8	Cadmium	mg/L	0.0251	0.0250	100	85 - 115	X528145	11-Jul-25	
EPA 200.8	Chromium	mg/L	0.0255	0.0250	102	85 - 115	X528145	11-Jul-25	
EPA 200.8	Copper	mg/L	0.0251	0.0250	100	85 - 115	X528145	11-Jul-25	
EPA 200.8	Lead	mg/L	0.0247	0.0250	98.7	85 - 115	X528145	11-Jul-25	
EPA 200.8	Selenium	mg/L	0.0268	0.0250	107	85 - 115	X528145	11-Jul-25	
EPA 200.8	Silver	mg/L	0.0245	0.0250	98.1	85 - 115	X528145	11-Jul-25	
EPA 200.8	Thallium	mg/L	0.0234	0.0250	93.5	85 - 115	X528145	11-Jul-25	
EPA 200.8	Uranium	mg/L	0.0247	0.0250	98.9	85 - 115	X528145	11-Jul-25	

Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0937	0.100	93.7	90 - 110	X527117	03-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	0.0960	0.100	96.0	90 - 110	X528067	09-Jul-25	
EPA 350.1	Ammonia as N	mg/L	0.987	1.00	98.7	90 - 110	X528007	08-Jul-25	
EPA 351.2	TKN	mg/L	8.66	8.00	108	90 - 110	X528106	10-Jul-25	
OIA 1677	Cyanide (WAD)	mg/L	0.102	0.100	102	90 - 110	X528001	07-Jul-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1200	1180	101	95.4 - 104	X528010	07-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.90	9.93	99.7	94 - 106	X527130	03-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	98.7	99.3	99.4	94 - 106	X527130	03-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	404	397	102	94 - 106	X527130	03-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	240	250	96.0	85 - 115	X527123	03-Jul-25	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X527124	03-Jul-25	
SM 4500 S D	Sulfide	mg/L	0.510	0.500	102	85 - 115	X528011	07-Jul-25	

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	mg/L	0.100	0.100	100	80 - 120	X529057	15-Jul-25	
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Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.00	3.00	100	90 - 110	X527086	01-Jul-25	
EPA 300.0	Fluoride	mg/L	1.98	2.00	98.8	90 - 110	X527086	01-Jul-25	
EPA 300.0	Nitrate as N	mg/L	1.96	2.00	97.9	90 - 110	X527086	01-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.47	4.50	99.4	90 - 110	X527086	01-Jul-25	
EPA 300.0	Nitrite as N	mg/L	2.51	2.50	101	90 - 110	X527086	01-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	9.87	10.0	98.7	90 - 110	X527086	01-Jul-25	

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0019**

Reported: 16-Jul-25 08:42

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	X528010 - X5F0454-01	07-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	109	110	1.3	20	X527130 - X5F0472-01	03-Jul-25	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	109	110	1.3	20	X527130 - X5F0472-01	03-Jul-25	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X527130 - X5F0472-01	03-Jul-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X527130 - X5F0472-01	03-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	228	221	3.1	10	X527123 - X5G0019-02	03-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	387	394	1.8	10	X527123 - X5G0022-02	03-Jul-25	
SM 2540 D	Total Susp. Solids	mg/L	32.0	31.0	3.2	10	X527124 - X5G0019-02	03-Jul-25	
SM 2540 D	Total Susp. Solids	mg/L	6.0	<5.0	<RL	10	X527124 - X5G0022-02	03-Jul-25	R2B
SM 4500 H B	pH @19.3°C	pH Units	7.7	7.9	1.7	20	X527130 - X5F0472-01	03-Jul-25	R2B
SM 4500-O-G	Dissolved Oxygen	mg/L	7.9	8.1	2.5	20	X528046 - X5G0019-01	07-Jul-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)										
EPA 1631E	Mercury	ng/L	4.73	1.48	2.50	130	71 - 125	X527155 - X5G0019-03	07-Jul-25	M1
EPA 1631E	Mercury	ng/L	3.80	1.23	2.50	103	71 - 125	X527158 - X5F0456-01	09-Jul-25	
EPA 1631E	Mercury	ng/L	3.66	1.21	2.50	97.9	71 - 125	X527158 - X5F0459-08	09-Jul-25	
EPA 245.1	Mercury	mg/L	0.00218	<0.000093	0.00200	109	70 - 130	X527097 - X5G0019-01	02-Jul-25	
EPA 245.1	Mercury	mg/L	0.00211	<0.000093	0.00200	106	70 - 130	X527097 - X5G0033-01	02-Jul-25	

Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Barium	mg/L	1.09	0.116	1.00	97.7	70 - 130	X528026 - X5G0063-01	08-Jul-25	
EPA 200.7	Beryllium	mg/L	0.946	<0.00200	1.00	94.6	70 - 130	X528026 - X5G0063-01	08-Jul-25	
EPA 200.7	Boron	mg/L	1.07	0.0992	1.00	97.3	70 - 130	X528026 - X5G0063-01	08-Jul-25	
EPA 200.7	Calcium	mg/L	146	128	20.0	87	70 - 130	X528026 - X5G0063-01	08-Jul-25	
EPA 200.7	Chromium	mg/L	0.960	<0.0060	1.00	95.7	70 - 130	X528026 - X5G0063-01	08-Jul-25	
EPA 200.7	Iron	mg/L	9.78	<0.100	10.0	97.8	70 - 130	X528026 - X5G0063-01	08-Jul-25	
EPA 200.7	Magnesium	mg/L	51.1	30.7	20.0	102	70 - 130	X528026 - X5G0063-01	08-Jul-25	
EPA 200.7	Manganese	mg/L	0.954	<0.0080	1.00	94.8	70 - 130	X528026 - X5G0063-01	08-Jul-25	
EPA 200.7	Molybdenum	mg/L	0.987	<0.0080	1.00	98.7	70 - 130	X528026 - X5G0063-01	08-Jul-25	
EPA 200.7	Nickel	mg/L	0.893	<0.0100	1.00	89.3	70 - 130	X528026 - X5G0063-01	08-Jul-25	
EPA 200.7	Phosphorus	mg/L	1.04	<0.050	1.00	104	70 - 130	X528026 - X5G0063-01	08-Jul-25	
EPA 200.7	Potassium	mg/L	25.0	5.10	20.0	99.7	70 - 130	X528026 - X5G0063-01	08-Jul-25	
EPA 200.7	Sodium	mg/L	27.9	9.30	19.0	97.8	70 - 130	X528026 - X5G0063-01	08-Jul-25	
EPA 200.7	Zinc	mg/L	0.939	<0.0100	1.00	93.9	70 - 130	X528026 - X5G0063-01	08-Jul-25	
EPA 200.8	Antimony	mg/L	0.0237	<0.00100	0.0250	94.6	70 - 130	X528029 - X5F0472-02	09-Jul-25	
EPA 200.8	Antimony	mg/L	0.0242	<0.00100	0.0250	96.7	70 - 130	X528029 - X5G0019-03	09-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0246	<0.00100	0.0250	95.7	70 - 130	X528029 - X5F0472-02	09-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0262	0.00171	0.0250	98.1	70 - 130	X528029 - X5G0019-03	09-Jul-25	
EPA 200.8	Cadmium	mg/L	0.0227	<0.000100	0.0250	90.8	70 - 130	X528029 - X5F0472-02	09-Jul-25	
EPA 200.8	Cadmium	mg/L	0.0239	<0.000100	0.0250	95.4	70 - 130	X528029 - X5G0019-03	09-Jul-25	
EPA 200.8	Chromium	mg/L	0.0241	<0.00100	0.0250	96.4	70 - 130	X528029 - X5F0472-02	09-Jul-25	
EPA 200.8	Chromium	mg/L	0.0254	<0.00100	0.0250	99.3	70 - 130	X528029 - X5G0019-03	09-Jul-25	
EPA 200.8	Copper	mg/L	0.0241	0.00094	0.0250	92.7	70 - 130	X528029 - X5F0472-02	09-Jul-25	
EPA 200.8	Copper	mg/L	0.0251	0.00107	0.0250	96.2	70 - 130	X528029 - X5G0019-03	09-Jul-25	
EPA 200.8	Lead	mg/L	0.0237	0.00025	0.0250	93.7	70 - 130	X528029 - X5F0472-02	09-Jul-25	
EPA 200.8	Lead	mg/L	0.0264	0.00153	0.0250	99.5	70 - 130	X528029 - X5G0019-03	09-Jul-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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0019**

Reported: 16-Jul-25 08:42

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
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Metals (Total Recoverable--reportable as Total per 40 CFR 136) (Continued)

EPA 200.8	Selenium	mg/L	0.0225	<0.00100	0.0250	89.9	70 - 130	X528029 - X5F0472-02	09-Jul-25	
EPA 200.8	Selenium	mg/L	0.0236	<0.00100	0.0250	93.6	70 - 130	X528029 - X5G0019-03	09-Jul-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.955	<0.080	1.00	95.5	70 - 130	X527141 - X5G0019-01	08-Jul-25	
EPA 200.7	Aluminum	mg/L	0.949	<0.080	1.00	94.9	70 - 130	X527141 - X5G0019-02	08-Jul-25	
EPA 200.7	Barium	mg/L	1.10	0.115	1.00	98.1	70 - 130	X527141 - X5G0019-01	08-Jul-25	
EPA 200.7	Barium	mg/L	1.06	0.0891	1.00	97.3	70 - 130	X527141 - X5G0019-02	08-Jul-25	
EPA 200.7	Beryllium	mg/L	0.961	<0.00200	1.00	96.1	70 - 130	X527141 - X5G0019-01	08-Jul-25	
EPA 200.7	Beryllium	mg/L	0.957	<0.00200	1.00	95.7	70 - 130	X527141 - X5G0019-02	08-Jul-25	
EPA 200.7	Calcium	mg/L	66.5	47.0	20.0	97.3	70 - 130	X527141 - X5G0019-01	08-Jul-25	
EPA 200.7	Calcium	mg/L	61.4	42.5	20.0	94.8	70 - 130	X527141 - X5G0019-02	08-Jul-25	
EPA 200.7	Iron	mg/L	10.0	0.263	10.0	97.5	70 - 130	X527141 - X5G0019-01	08-Jul-25	
EPA 200.7	Iron	mg/L	11.9	2.25	10.0	96.7	70 - 130	X527141 - X5G0019-02	08-Jul-25	
EPA 200.7	Magnesium	mg/L	30.6	11.0	20.0	98.4	70 - 130	X527141 - X5G0019-01	08-Jul-25	
EPA 200.7	Magnesium	mg/L	29.0	9.46	20.0	97.7	70 - 130	X527141 - X5G0019-02	08-Jul-25	
EPA 200.7	Manganese	mg/L	1.48	0.513	1.00	96.6	70 - 130	X527141 - X5G0019-01	08-Jul-25	
EPA 200.7	Manganese	mg/L	1.54	0.594	1.00	95.0	70 - 130	X527141 - X5G0019-02	08-Jul-25	
EPA 200.7	Molybdenum	mg/L	0.984	<0.0080	1.00	98.4	70 - 130	X527141 - X5G0019-01	08-Jul-25	
EPA 200.7	Molybdenum	mg/L	0.979	<0.0080	1.00	97.9	70 - 130	X527141 - X5G0019-02	08-Jul-25	
EPA 200.7	Nickel	mg/L	0.908	<0.0100	1.00	90.8	70 - 130	X527141 - X5G0019-01	08-Jul-25	
EPA 200.7	Nickel	mg/L	0.904	<0.0100	1.00	90.4	70 - 130	X527141 - X5G0019-02	08-Jul-25	
EPA 200.7	Potassium	mg/L	20.8	1.06	20.0	98.5	70 - 130	X527141 - X5G0019-01	08-Jul-25	
EPA 200.7	Potassium	mg/L	20.6	1.16	20.0	97.2	70 - 130	X527141 - X5G0019-02	08-Jul-25	
EPA 200.7	Sodium	mg/L	30.6	12.4	19.0	95.8	70 - 130	X527141 - X5G0019-01	08-Jul-25	
EPA 200.7	Sodium	mg/L	31.6	13.7	19.0	94.7	70 - 130	X527141 - X5G0019-02	08-Jul-25	
EPA 200.7	Zinc	mg/L	0.963	0.0194	1.00	94.3	70 - 130	X527141 - X5G0019-01	08-Jul-25	
EPA 200.7	Zinc	mg/L	0.965	0.0124	1.00	95.3	70 - 130	X527141 - X5G0019-02	08-Jul-25	
EPA 200.8	Antimony	mg/L	0.0253	<0.00100	0.0250	101	70 - 130	X528145 - X5G0019-01	11-Jul-25	
EPA 200.8	Antimony	mg/L	0.0255	<0.00100	0.0250	102	70 - 130	X528145 - X5G0022-04	11-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0269	<0.00100	0.0250	105	70 - 130	X528145 - X5G0019-01	11-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0286	0.00114	0.0250	110	70 - 130	X528145 - X5G0022-04	11-Jul-25	
EPA 200.8	Cadmium	mg/L	0.0248	0.000226	0.0250	98.5	70 - 130	X528145 - X5G0019-01	11-Jul-25	
EPA 200.8	Cadmium	mg/L	0.0248	0.000188	0.0250	98.4	70 - 130	X528145 - X5G0022-04	11-Jul-25	
EPA 200.8	Chromium	mg/L	0.0259	<0.00100	0.0250	101	70 - 130	X528145 - X5G0019-01	11-Jul-25	
EPA 200.8	Chromium	mg/L	0.0269	0.00127	0.0250	102	70 - 130	X528145 - X5G0022-04	11-Jul-25	
EPA 200.8	Copper	mg/L	0.0271	0.00238	0.0250	98.9	70 - 130	X528145 - X5G0019-01	11-Jul-25	
EPA 200.8	Copper	mg/L	0.0279	0.00323	0.0250	98.9	70 - 130	X528145 - X5G0022-04	11-Jul-25	
EPA 200.8	Lead	mg/L	0.0252	0.00023	0.0250	100	70 - 130	X528145 - X5G0019-01	11-Jul-25	
EPA 200.8	Lead	mg/L	0.0234	<0.00020	0.0250	92.7	70 - 130	X528145 - X5G0022-04	11-Jul-25	
EPA 200.8	Selenium	mg/L	0.0273	<0.00100	0.0250	107	70 - 130	X528145 - X5G0019-01	11-Jul-25	
EPA 200.8	Selenium	mg/L	0.0308	0.00251	0.0250	113	70 - 130	X528145 - X5G0022-04	11-Jul-25	
EPA 200.8	Silver	mg/L	0.0241	<0.00008	0.0250	96.5	70 - 130	X528145 - X5G0019-01	11-Jul-25	
EPA 200.8	Silver	mg/L	0.0240	<0.00008	0.0250	96.0	70 - 130	X528145 - X5G0022-04	11-Jul-25	
EPA 200.8	Thallium	mg/L	0.0247	0.000237	0.0250	98.0	70 - 130	X528145 - X5G0019-01	11-Jul-25	
EPA 200.8	Thallium	mg/L	0.0228	<0.000200	0.0250	90.3	70 - 130	X528145 - X5G0022-04	11-Jul-25	
EPA 200.8	Uranium	mg/L	0.0280	0.00172	0.0250	105	70 - 130	X528145 - X5G0019-01	11-Jul-25	
EPA 200.8	Uranium	mg/L	0.0278	0.00325	0.0250	98.2	70 - 130	X528145 - X5G0022-04	11-Jul-25	

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0019**

Reported: 16-Jul-25 08:42

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
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0855	<0.0050	0.100	85.5	79 - 121	X527117 - X5F0451-01	03-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	0.0783	<0.0050	0.100	78.3	90 - 110	X528067 - X5G0019-02	09-Jul-25	M2
EPA 350.1	Ammonia as N	mg/L	1.04	<0.030	1.00	101	90 - 110	X528007 - X5G0019-03	08-Jul-25	
EPA 350.1	Ammonia as N	mg/L	1.08	<0.030	1.00	107	90 - 110	X528007 - X5G0019-02	08-Jul-25	
EPA 351.2	TKN	mg/L	8.77	<0.50	8.00	105	90 - 110	X528106 - X5G0019-02	10-Jul-25	
EPA 351.2	TKN	mg/L	9.21	0.84	8.00	105	90 - 110	X528106 - X5G0019-01	10-Jul-25	
OIA 1677	Cyanide (WAD)	mg/L	0.0952	<0.0050	0.100	95.2	82 - 118	X528001 - X5G0047-01	07-Jul-25	
SM 4500 S D	Sulfide	mg/L	0.209	<0.050	0.200	105	75 - 125	X528011 - X5G0019-03	07-Jul-25	

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0165	<0.0050	0.0222	74.3	75 - 125	X529057 - X5G0019-03	15-Jul-25	M2
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Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	10.0	6.96	3.00	102	90 - 110	X527086 - X5G0019-01	01-Jul-25	
EPA 300.0	Fluoride	mg/L	2.52	0.645	2.00	93.7	90 - 110	X527086 - X5G0019-01	01-Jul-25	
EPA 300.0	Nitrate as N	mg/L	2.09	0.141	2.00	97.4	90 - 110	X527086 - X5G0019-01	01-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.06	0.153	4.00	97.8	90 - 110	X527086 - X5G0019-01	01-Jul-25	
EPA 300.0	Nitrite as N	mg/L	1.98	<0.050	2.00	98.8	90 - 110	X527086 - X5G0019-01	01-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	89.4	78.9	10.0	105	90 - 110	X527086 - X5G0019-01	01-Jul-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
Metals (Total)										
EPA 1631E	Mercury	ng/L	5.65	4.73	2.50	17.7	24	167	X527155 - X5G0019-03	M1
EPA 1631E	Mercury	ng/L	3.76	3.66	2.50	2.6	24	102	X527158 - X5F0459-08	
EPA 1631E	Mercury	ng/L	4.15	3.80	2.50	8.6	24	117	X527158 - X5F0456-01	
EPA 245.1	Mercury	mg/L	0.00217	0.00218	0.00200	0.2	20	109	X527097 - X5G0019-01	

Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Barium	mg/L	1.07	1.09	1.00	2.3	20	95.2	X528026 - X5G0063-01	
EPA 200.7	Beryllium	mg/L	0.923	0.946	1.00	2.4	20	92.3	X528026 - X5G0063-01	
EPA 200.7	Boron	mg/L	1.05	1.07	1.00	2.0	20	95.2	X528026 - X5G0063-01	
EPA 200.7	Calcium	mg/L	144	146	20.0	1.0	20	77	X528026 - X5G0063-01	
EPA 200.7	Chromium	mg/L	0.940	0.960	1.00	2.1	20	93.6	X528026 - X5G0063-01	
EPA 200.7	Iron	mg/L	9.53	9.78	10.0	2.5	20	95.3	X528026 - X5G0063-01	
EPA 200.7	Magnesium	mg/L	50.1	51.1	20.0	1.9	20	97.0	X528026 - X5G0063-01	
EPA 200.7	Manganese	mg/L	0.933	0.954	1.00	2.3	20	92.6	X528026 - X5G0063-01	
EPA 200.7	Molybdenum	mg/L	0.962	0.987	1.00	2.5	20	96.2	X528026 - X5G0063-01	
EPA 200.7	Nickel	mg/L	0.870	0.893	1.00	2.6	20	87.0	X528026 - X5G0063-01	
EPA 200.7	Phosphorus	mg/L	0.992	1.04	1.00	4.3	20	99.2	X528026 - X5G0063-01	
EPA 200.7	Potassium	mg/L	24.5	25.0	20.0	2.2	20	96.9	X528026 - X5G0063-01	
EPA 200.7	Sodium	mg/L	27.3	27.9	19.0	2.0	20	94.9	X528026 - X5G0063-01	
EPA 200.7	Zinc	mg/L	0.911	0.939	1.00	3.0	20	91.1	X528026 - X5G0063-01	
EPA 200.8	Antimony	mg/L	0.0225	0.0237	0.0250	4.8	20	90.2	X528029 - X5F0472-02	
EPA 200.8	Arsenic	mg/L	0.0230	0.0246	0.0250	7.0	20	89.0	X528029 - X5F0472-02	
EPA 200.8	Cadmium	mg/L	0.0216	0.0227	0.0250	4.8	20	86.5	X528029 - X5F0472-02	
EPA 200.8	Chromium	mg/L	0.0225	0.0241	0.0250	6.8	20	90.1	X528029 - X5F0472-02	
EPA 200.8	Copper	mg/L	0.0223	0.0241	0.0250	8.0	20	85.3	X528029 - X5F0472-02	
EPA 200.8	Lead	mg/L	0.0228	0.0237	0.0250	4.0	20	90.1	X528029 - X5F0472-02	
EPA 200.8	Selenium	mg/L	0.0216	0.0225	0.0250	4.1	20	86.3	X528029 - X5F0472-02	



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Cripple Creek & Victor Gold Mining Company

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5G0019**

Reported: 16-Jul-25 08:42

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

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.959	0.949	1.00	1.1	20	95.9	X527141 - X5G0019-02	
EPA 200.7	Barium	mg/L	1.07	1.06	1.00	0.7	20	98.1	X527141 - X5G0019-02	
EPA 200.7	Beryllium	mg/L	0.962	0.957	1.00	0.5	20	96.2	X527141 - X5G0019-02	
EPA 200.7	Calcium	mg/L	62.1	61.4	20.0	1.2	20	98.4	X527141 - X5G0019-02	
EPA 200.7	Iron	mg/L	12.0	11.9	10.0	0.8	20	97.7	X527141 - X5G0019-02	
EPA 200.7	Magnesium	mg/L	29.0	29.0	20.0	0.1	20	97.9	X527141 - X5G0019-02	
EPA 200.7	Manganese	mg/L	1.55	1.54	1.00	0.2	20	95.3	X527141 - X5G0019-02	
EPA 200.7	Molybdenum	mg/L	0.989	0.979	1.00	1.0	20	98.9	X527141 - X5G0019-02	
EPA 200.7	Nickel	mg/L	0.915	0.904	1.00	1.2	20	91.5	X527141 - X5G0019-02	
EPA 200.7	Potassium	mg/L	20.9	20.6	20.0	1.7	20	98.9	X527141 - X5G0019-02	
EPA 200.7	Sodium	mg/L	32.0	31.6	19.0	1.1	20	96.5	X527141 - X5G0019-02	
EPA 200.7	Zinc	mg/L	0.971	0.965	1.00	0.5	20	95.8	X527141 - X5G0019-02	
EPA 200.8	Antimony	mg/L	0.0249	0.0253	0.0250	1.6	20	99.5	X528145 - X5G0019-01	
EPA 200.8	Arsenic	mg/L	0.0260	0.0269	0.0250	3.4	20	101	X528145 - X5G0019-01	
EPA 200.8	Cadmium	mg/L	0.0243	0.0248	0.0250	2.3	20	96.2	X528145 - X5G0019-01	
EPA 200.8	Chromium	mg/L	0.0254	0.0259	0.0250	2.0	20	98.7	X528145 - X5G0019-01	
EPA 200.8	Copper	mg/L	0.0263	0.0271	0.0250	2.9	20	95.8	X528145 - X5G0019-01	
EPA 200.8	Lead	mg/L	0.0243	0.0252	0.0250	3.7	20	96.3	X528145 - X5G0019-01	
EPA 200.8	Selenium	mg/L	0.0266	0.0273	0.0250	2.8	20	104	X528145 - X5G0019-01	
EPA 200.8	Silver	mg/L	0.0236	0.0241	0.0250	2.3	20	94.3	X528145 - X5G0019-01	
EPA 200.8	Thallium	mg/L	0.0240	0.0247	0.0250	3.0	20	95.1	X528145 - X5G0019-01	
EPA 200.8	Uranium	mg/L	0.0269	0.0280	0.0250	3.8	20	101	X528145 - X5G0019-01	

Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0911	0.0855	0.100	6.3	11	91.1	X527117 - X5F0451-01	
EPA 335.4	Cyanide (total)	mg/L	0.0999	0.0783	0.100	24.2	20	99.9	X528067 - X5G0019-02	R2B
EPA 350.1	Ammonia as N	mg/L	1.05	1.04	1.00	1.4	20	103	X528007 - X5G0019-03	
EPA 351.2	TKN	mg/L	8.86	8.77	8.00	1.1	20	107	X528106 - X5G0019-02	
OIA 1677	Cyanide (WAD)	mg/L	0.0970	0.0952	0.100	1.9	11	97.0	X528001 - X5G0047-01	
SM 4500 S D	Sulfide	mg/L	0.209	0.209	0.200	0.0	20	105	X528011 - X5G0019-03	

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0156	0.0165	0.0222	5.3	20	70.5	X529057 - X5G0019-03	M2
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Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	10.0	10.0	3.00	0.1	20	102	X527086 - X5G0019-01	
EPA 300.0	Fluoride	mg/L	2.57	2.52	2.00	2.1	20	96.4	X527086 - X5G0019-01	
EPA 300.0	Nitrate as N	mg/L	2.10	2.09	2.00	0.7	20	98.2	X527086 - X5G0019-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.04	4.06	4.00	0.7	20	97.1	X527086 - X5G0019-01	
EPA 300.0	Nitrite as N	mg/L	1.93	1.98	2.00	2.3	20	96.6	X527086 - X5G0019-01	
EPA 300.0	Sulfate as SO4	mg/L	89.3	89.4	10.0	0.2	20	103	X527086 - X5G0019-01	



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www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0019**

Reported: 16-Jul-25 08:42

Notes and Definitions

D11	Due to sample color, a sample dilution was performed to minimize spectral interference.
D14	Due to precipitates evident in sample/digestate, 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.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
R2B	RPD exceeded the laboratory acceptance limit.
U	Indicates the analyte was analyzed for but was not detected, result was less than the MDL.
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**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0145**

Reported: 24-Jun-25 11:10

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-24B	X5F0145-01	Ground Water	09-Jun-25 12:45	JC	10-Jun-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: X5F0145

The state of origin only accredits for drinking water analyses.

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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0145**

Reported: 24-Jun-25 11:10

Client Sample ID: **GVMW-24B**

Sampled: 09-Jun-25 12:45

Received: 10-Jun-25

Sampled By: JC

SVL Sample ID: **X5F0145-01 (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	449	mg/L	0.100	0.069		X525188	JRR	06/19/25 10:18	
EPA 200.7	Magnesium	118	mg/L	0.500	0.090		X525188	JRR	06/19/25 10:18	
EPA 200.7	Potassium	2.83	mg/L	0.50	0.18		X525188	JRR	06/19/25 10:18	
SM 2340 B	Hardness (as CaCO3)	1610	mg/L	2.31	0.543		N/A		06/23/25 08:43	

Metals (Dissolved)

EPA 200.7	Aluminum	8.45	mg/L	0.080	0.054		X525019	SJN	06/23/25 08:43	
EPA 200.7	Barium	0.0162	mg/L	0.0020	0.0019		X525019	SJN	06/23/25 08:43	
EPA 200.7	Beryllium	0.0195	mg/L	0.00200	0.00080		X525019	SJN	06/23/25 08:43	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X525019	SJN	06/23/25 08:43	
EPA 200.7	Cadmium	0.0162	mg/L	0.0020	0.0016		X525019	SJN	06/23/25 08:43	
EPA 200.7	Calcium	456	mg/L	0.100	0.069		X525019	SJN	06/23/25 08:43	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X525019	SJN	06/23/25 08:43	
EPA 200.7	Cobalt	0.0069	mg/L	0.0060	0.0046		X525019	SJN	06/23/25 08:43	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X525019	SJN	06/23/25 08:43	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X525019	SJN	06/23/25 08:43	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X525019	SJN	06/23/25 08:43	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X525019	SJN	06/23/25 08:43	
EPA 200.7	Magnesium	119	mg/L	0.500	0.090		X525019	SJN	06/23/25 08:43	
EPA 200.7	Manganese	4.24	mg/L	0.0080	0.0034		X525019	SJN	06/23/25 08:43	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X525019	SJN	06/23/25 08:43	
EPA 200.7	Nickel	0.157	mg/L	0.0100	0.0048		X525019	SJN	06/23/25 08:43	
EPA 200.7	Potassium	2.65	mg/L	0.50	0.18		X525019	SJN	06/23/25 08:43	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X525019	SJN	06/23/25 08:43	
EPA 200.7	Sodium	21.6	mg/L	0.50	0.12		X525019	SJN	06/23/25 08:43	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X525019	SJN	06/23/25 08:43	
EPA 200.7	Zinc	0.256	mg/L	0.0100	0.0054		X525019	SJN	06/23/25 08:43	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X525061	SMU	06/23/25 14:54	
EPA 200.8	Arsenic	0.00671	mg/L	0.00100	0.00021		X525061	SMU	06/23/25 14:54	
EPA 200.8	Selenium	0.00189	mg/L	0.00100	0.00024		X525061	SMU	06/23/25 14:54	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X525061	SMU	06/23/25 14:54	
EPA 200.8	Uranium	0.0116	mg/L	0.000100	0.000052		X525061	SMU	06/23/25 14:54	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X524040	SJN	06/13/25 16:01	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X524068	JPM	06/11/25 12:52	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X525071	ORW	06/18/25 14:10	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X524181	ORW	06/13/25 16:17	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X524109	ORW	06/12/25 12:53	
SM 2310 B	Acidity to pH 8.3	59.7	mg/L as CaCO3	10.0			X525169	MWD	06/18/25 12:12	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X525030	MWD	06/18/25 11:31	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X525030	MWD	06/18/25 11:31	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X525030	MWD	06/18/25 11:31	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X525030	MWD	06/18/25 11:31	
SM 2540 C	Total Diss. Solids	2500	mg/L	40			X524114	TJL	06/12/25 11:20	
SM 2540 D	Total Susp. Solids	7.0	mg/L	5.0			X524115	TJL	06/12/25 14:20	
SM 4500 H B	pH @19.8°C	4.9	pH Units				X525030	MWD	06/18/25 11:31	H5



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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5F0145 Reported: 24-Jun-25 11:10
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Client Sample ID: **GVMW-24B**
SVL Sample ID: **X5F0145-01 (Ground Water)**

Sampled: 09-Jun-25 12:45
Received: 10-Jun-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	56.2	mg/L	10.0	1.10	50	X524104	RS	06/10/25 16:58	
EPA 300.0	Fluoride	2.41	mg/L	0.100	0.017		X524104	RS	06/10/25 16:43	
EPA 300.0	Nitrate as N	1.93	mg/L	0.050	0.013		X524104	RS	06/10/25 16:43	
EPA 300.0	Nitrate+Nitrite as N	1.93	mg/L	0.100	0.044		X524104	RS	06/10/25 16:43	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X524104	RS	06/10/25 16:43	
EPA 300.0	Sulfate as SO4	1900	mg/L	15.0	9.00	50	X524104	RS	06/10/25 16:58	

Cation/Anion Balance and TDS Ratios

Cation Sum: 34.3 meq/L	Anion Sum: 41.4 meq/L	C/A Balance: -9.39 %	Calculated TDS: 2562	TDS/cTDS: 0.98
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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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Cripple Creek & Victor Gold Mining Company

Ironclad Security 1632 County Rd 82
Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5F0145**
Reported: 24-Jun-25 11:10

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	X525188	19-Jun-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X525188	19-Jun-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X525188	19-Jun-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X525019	23-Jun-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X525019	23-Jun-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X525019	23-Jun-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X525019	23-Jun-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X525019	23-Jun-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X525019	23-Jun-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X525019	23-Jun-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X525019	23-Jun-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X525019	23-Jun-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X525019	23-Jun-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X525019	23-Jun-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X525019	23-Jun-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X525019	23-Jun-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X525019	23-Jun-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X525019	23-Jun-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X525019	23-Jun-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X525019	23-Jun-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X525019	23-Jun-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X525019	23-Jun-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X525019	23-Jun-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X525019	23-Jun-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X525061	23-Jun-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X525061	23-Jun-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X525061	23-Jun-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X525061	23-Jun-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X525061	23-Jun-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X524040	13-Jun-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X524068	11-Jun-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X525071	18-Jun-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X524181	13-Jun-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X524109	12-Jun-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X525169	18-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X525030	17-Jun-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X525030	17-Jun-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X525030	17-Jun-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X525030	17-Jun-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X524114	12-Jun-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X524115	12-Jun-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X524104	10-Jun-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X524104	10-Jun-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X524104	10-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X524104	10-Jun-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X524104	10-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X524104	10-Jun-25	

SVL holds the following certifications:

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

Work order Report Page 4 of 9

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0145**

Reported: 24-Jun-25 11:10

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	19.1	20.0	95	85 - 115	X525188	19-Jun-25	
EPA 200.7	Magnesium	mg/L	19.1	20.0	95.5	85 - 115	X525188	19-Jun-25	
EPA 200.7	Potassium	mg/L	19.3	20.0	96.4	85 - 115	X525188	19-Jun-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.02	1.00	102	85 - 115	X525019	23-Jun-25	
EPA 200.7	Barium	mg/L	1.02	1.00	102	85 - 115	X525019	23-Jun-25	
EPA 200.7	Beryllium	mg/L	1.02	1.00	102	85 - 115	X525019	23-Jun-25	
EPA 200.7	Boron	mg/L	1.03	1.00	103	85 - 115	X525019	23-Jun-25	
EPA 200.7	Cadmium	mg/L	0.986	1.00	98.6	85 - 115	X525019	23-Jun-25	
EPA 200.7	Calcium	mg/L	19.9	20.0	99.5	85 - 115	X525019	23-Jun-25	
EPA 200.7	Chromium	mg/L	1.02	1.00	102	85 - 115	X525019	23-Jun-25	
EPA 200.7	Cobalt	mg/L	0.971	1.00	97.1	85 - 115	X525019	23-Jun-25	
EPA 200.7	Copper	mg/L	0.977	1.00	97.7	85 - 115	X525019	23-Jun-25	
EPA 200.7	Iron	mg/L	10.1	10.0	101	85 - 115	X525019	23-Jun-25	
EPA 200.7	Lead	mg/L	0.985	1.00	98.5	85 - 115	X525019	23-Jun-25	
EPA 200.7	Lithium	mg/L	0.995	1.00	99.5	85 - 115	X525019	23-Jun-25	
EPA 200.7	Magnesium	mg/L	19.7	20.0	98.4	85 - 115	X525019	23-Jun-25	
EPA 200.7	Manganese	mg/L	1.01	1.00	101	85 - 115	X525019	23-Jun-25	
EPA 200.7	Molybdenum	mg/L	1.03	1.00	103	85 - 115	X525019	23-Jun-25	
EPA 200.7	Nickel	mg/L	0.974	1.00	97.4	85 - 115	X525019	23-Jun-25	
EPA 200.7	Potassium	mg/L	20.9	20.0	104	85 - 115	X525019	23-Jun-25	
EPA 200.7	Silver	mg/L	0.0506	0.0500	101	85 - 115	X525019	23-Jun-25	
EPA 200.7	Sodium	mg/L	19.2	19.0	101	85 - 115	X525019	23-Jun-25	
EPA 200.7	Vanadium	mg/L	1.03	1.00	103	85 - 115	X525019	23-Jun-25	
EPA 200.7	Zinc	mg/L	1.03	1.00	103	85 - 115	X525019	23-Jun-25	
EPA 200.8	Antimony	mg/L	0.0242	0.0250	96.8	85 - 115	X525061	23-Jun-25	
EPA 200.8	Arsenic	mg/L	0.0233	0.0250	93.0	85 - 115	X525061	23-Jun-25	
EPA 200.8	Selenium	mg/L	0.0236	0.0250	94.5	85 - 115	X525061	23-Jun-25	
EPA 200.8	Thallium	mg/L	0.0219	0.0250	87.6	85 - 115	X525061	23-Jun-25	
EPA 200.8	Uranium	mg/L	0.0228	0.0250	91.1	85 - 115	X525061	23-Jun-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00212	0.00200	106	85 - 115	X524040	13-Jun-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0994	0.100	99.4	90 - 110	X524068	11-Jun-25	
EPA 335.4	Cyanide (total)	mg/L	0.0957	0.100	95.7	90 - 110	X525071	18-Jun-25	
EPA 350.1	Ammonia as N	mg/L	0.993	1.00	99.3	90 - 110	X524181	13-Jun-25	
OIA 1677	Cyanide (WAD)	mg/L	0.101	0.100	101	90 - 110	X524109	12-Jun-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1170	1180	99.1	95.4 - 104	X525169	18-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	100	99.3	101	94 - 106	X525030	17-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.0	9.93	101	94 - 106	X525030	18-Jun-25	
SM 2540 C	Total Diss. Solids	mg/L	255	250	102	85 - 115	X524114	12-Jun-25	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X524115	12-Jun-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.00	3.00	99.9	90 - 110	X524104	10-Jun-25	
EPA 300.0	Fluoride	mg/L	1.97	2.00	98.3	90 - 110	X524104	10-Jun-25	
EPA 300.0	Nitrate as N	mg/L	2.01	2.00	100	90 - 110	X524104	10-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.62	4.50	103	90 - 110	X524104	10-Jun-25	
EPA 300.0	Nitrite as N	mg/L	2.61	2.50	104	90 - 110	X524104	10-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	10.2	10.0	102	90 - 110	X524104	10-Jun-25	

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82
Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0145**

Reported: 24-Jun-25 11:10

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	X525169 - X5F0110-01	18-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	69.5	69.5	0.0	20	X525030 - X5F0138-02	17-Jun-25	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	69.5	69.5	0.0	20	X525030 - X5F0138-02	17-Jun-25	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X525030 - X5F0138-02	17-Jun-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X525030 - X5F0138-02	17-Jun-25	
SM 2540 C	Total Diss. Solids	mg/L	247	241	2.5	10	X524114 - X5F0137-01	12-Jun-25	
SM 2540 C	Total Diss. Solids	mg/L	624	589	5.8	10	X524114 - X5F0151-02	12-Jun-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X524115 - X5F0137-01	12-Jun-25	
SM 4500 H B	pH @20.7°C	pH Units	7.7	7.7	0.3	20	X525030 - X5F0138-02	17-Jun-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	365	350	20.0	77	70 - 130	X525188 - X5F0138-01	19-Jun-25	
EPA 200.7	Calcium	mg/L	417	399	20.0	91	70 - 130	X525188 - X5F0170-02	19-Jun-25	
EPA 200.7	Magnesium	mg/L	50.1	31.0	20.0	95.2	70 - 130	X525188 - X5F0138-01	19-Jun-25	
EPA 200.7	Magnesium	mg/L	378	360	20.0	87.4	70 - 130	X525188 - X5F0170-02	19-Jun-25	
EPA 200.7	Potassium	mg/L	29.6	9.75	20.0	99.4	70 - 130	X525188 - X5F0138-01	19-Jun-25	
EPA 200.7	Potassium	mg/L	22.0	1.09	20.0	105	70 - 130	X525188 - X5F0170-02	19-Jun-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.953	<0.080	1.00	95.3	70 - 130	X525019 - X5F0231-01	23-Jun-25	
EPA 200.7	Aluminum	mg/L	889	883	1.00	0.30R>S	70 - 130	X525019 - X5F0170-02	23-Jun-25	M4
EPA 200.7	Barium	mg/L	0.932	0.0102	1.00	92.1	70 - 130	X525019 - X5F0170-02	23-Jun-25	
EPA 200.7	Barium	mg/L	0.983	0.0049	1.00	97.8	70 - 130	X525019 - X5F0231-01	23-Jun-25	
EPA 200.7	Beryllium	mg/L	1.60	0.626	1.00	97.2	70 - 130	X525019 - X5F0170-02	23-Jun-25	
EPA 200.7	Beryllium	mg/L	0.959	<0.00200	1.00	95.9	70 - 130	X525019 - X5F0231-01	23-Jun-25	
EPA 200.7	Boron	mg/L	1.03	<0.0400	1.00	101	70 - 130	X525019 - X5F0170-02	23-Jun-25	
EPA 200.7	Boron	mg/L	0.991	<0.0400	1.00	99.1	70 - 130	X525019 - X5F0231-01	23-Jun-25	
EPA 200.7	Cadmium	mg/L	2.64	1.75	1.00	88.6	70 - 130	X525019 - X5F0170-02	23-Jun-25	
EPA 200.7	Cadmium	mg/L	0.945	<0.0020	1.00	94.5	70 - 130	X525019 - X5F0231-01	23-Jun-25	
EPA 200.7	Calcium	mg/L	421	400	20.0	106	70 - 130	X525019 - X5F0170-02	23-Jun-25	
EPA 200.7	Calcium	mg/L	28.9	9.73	20.0	95.7	70 - 130	X525019 - X5F0231-01	23-Jun-25	
EPA 200.7	Chromium	mg/L	1.09	0.168	1.00	92.6	70 - 130	X525019 - X5F0170-02	23-Jun-25	
EPA 200.7	Chromium	mg/L	0.973	<0.0060	1.00	97.3	70 - 130	X525019 - X5F0231-01	23-Jun-25	
EPA 200.7	Cobalt	mg/L	2.47	1.58	1.00	89.3	70 - 130	X525019 - X5F0170-02	23-Jun-25	
EPA 200.7	Cobalt	mg/L	0.927	<0.0060	1.00	92.7	70 - 130	X525019 - X5F0231-01	23-Jun-25	
EPA 200.7	Copper	mg/L	5.35	4.29	1.00	106	70 - 130	X525019 - X5F0170-02	23-Jun-25	
EPA 200.7	Copper	mg/L	0.913	<0.0100	1.00	91.3	70 - 130	X525019 - X5F0231-01	23-Jun-25	
EPA 200.7	Iron	mg/L	49.3	39.8	10.0	95.2	70 - 130	X525019 - X5F0170-02	23-Jun-25	
EPA 200.7	Iron	mg/L	9.66	<0.100	10.0	96.6	70 - 130	X525019 - X5F0231-01	23-Jun-25	
EPA 200.7	Lead	mg/L	0.929	0.0126	1.00	91.7	70 - 130	X525019 - X5F0170-02	23-Jun-25	
EPA 200.7	Lead	mg/L	0.944	<0.0075	1.00	94.4	70 - 130	X525019 - X5F0231-01	23-Jun-25	
EPA 200.7	Lithium	mg/L	1.63	0.332	1.00	130	70 - 130	X525019 - X5F0170-02	23-Jun-25	
EPA 200.7	Lithium	mg/L	0.935	<0.040	1.00	93.5	70 - 130	X525019 - X5F0231-01	23-Jun-25	
EPA 200.7	Magnesium	mg/L	388	367	20.0	108	70 - 130	X525019 - X5F0170-02	23-Jun-25	
EPA 200.7	Magnesium	mg/L	20.5	1.21	20.0	96.6	70 - 130	X525019 - X5F0231-01	23-Jun-25	
EPA 200.7	Manganese	mg/L	0.967	<0.0080	1.00	96.7	70 - 130	X525019 - X5F0231-01	23-Jun-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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0145**

Reported: 24-Jun-25 11:10

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	268	267	1.00	126	70 - 130	X525019 - X5F0170-02	23-Jun-25	
EPA 200.7	Molybdenum	mg/L	0.970	0.0291	1.00	94.1	70 - 130	X525019 - X5F0170-02	23-Jun-25	
EPA 200.7	Molybdenum	mg/L	0.978	<0.0080	1.00	97.8	70 - 130	X525019 - X5F0231-01	23-Jun-25	
EPA 200.7	Nickel	mg/L	3.58	2.69	1.00	89.3	70 - 130	X525019 - X5F0170-02	23-Jun-25	
EPA 200.7	Nickel	mg/L	0.930	<0.0100	1.00	93.0	70 - 130	X525019 - X5F0231-01	23-Jun-25	
EPA 200.7	Potassium	mg/L	19.5	<0.50	20.0	97.6	70 - 130	X525019 - X5F0170-02	23-Jun-25	
EPA 200.7	Potassium	mg/L	20.3	<0.50	20.0	101	70 - 130	X525019 - X5F0231-01	23-Jun-25	
EPA 200.7	Silver	mg/L	0.241	0.189	0.0500	105	70 - 130	X525019 - X5F0170-02	23-Jun-25	
EPA 200.7	Silver	mg/L	0.0482	<0.0050	0.0500	96.4	70 - 130	X525019 - X5F0231-01	23-Jun-25	
EPA 200.7	Sodium	mg/L	52.5	33.1	19.0	102	70 - 130	X525019 - X5F0170-02	23-Jun-25	
EPA 200.7	Sodium	mg/L	19.2	0.82	19.0	96.8	70 - 130	X525019 - X5F0231-01	23-Jun-25	
EPA 200.7	Vanadium	mg/L	0.200	<0.0050	1.00	20.0	70 - 130	X525019 - X5F0170-02	23-Jun-25	E12,M2
EPA 200.7	Vanadium	mg/L	0.985	<0.0050	1.00	98.5	70 - 130	X525019 - X5F0231-01	23-Jun-25	
EPA 200.7	Zinc	mg/L	1.00	<0.0100	1.00	100	70 - 130	X525019 - X5F0231-01	23-Jun-25	
EPA 200.7	Zinc	mg/L	78.1	77.1	1.00	99.7	70 - 130	X525019 - X5F0170-02	23-Jun-25	
EPA 200.8	Antimony	mg/L	0.0248	<0.00100	0.0250	99.0	70 - 130	X525061 - X5F0145-01	23-Jun-25	
EPA 200.8	Antimony	mg/L	0.0259	<0.00100	0.0250	104	70 - 130	X525061 - X5F0208-01	23-Jun-25	
EPA 200.8	Arsenic	mg/L	0.0334	0.00671	0.0250	107	70 - 130	X525061 - X5F0145-01	23-Jun-25	
EPA 200.8	Arsenic	mg/L	0.0272	<0.00100	0.0250	109	70 - 130	X525061 - X5F0208-01	23-Jun-25	
EPA 200.8	Selenium	mg/L	0.0286	0.00189	0.0250	107	70 - 130	X525061 - X5F0145-01	23-Jun-25	
EPA 200.8	Selenium	mg/L	0.0277	<0.00100	0.0250	111	70 - 130	X525061 - X5F0208-01	23-Jun-25	
EPA 200.8	Thallium	mg/L	0.0268	<0.000200	0.0250	107	70 - 130	X525061 - X5F0145-01	23-Jun-25	
EPA 200.8	Thallium	mg/L	0.0237	<0.000200	0.0250	94.8	70 - 130	X525061 - X5F0208-01	23-Jun-25	
EPA 200.8	Uranium	mg/L	0.0396	0.0116	0.0250	112	70 - 130	X525061 - X5F0145-01	23-Jun-25	
EPA 200.8	Uranium	mg/L	0.0241	<0.000100	0.0250	96.6	70 - 130	X525061 - X5F0208-01	23-Jun-25	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00216	<0.000200	0.00200	108	70 - 130	X524040 - X5F0101-01	13-Jun-25	
EPA 245.1	Mercury	mg/L	0.00214	<0.000200	0.00200	107	70 - 130	X524040 - X5F0145-01	13-Jun-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.102	<0.0050	0.100	102	79 - 121	X524068 - X5F0112-01	11-Jun-25	
EPA 335.4	Cyanide (total)	mg/L	0.102	<0.0050	0.100	102	90 - 110	X525071 - X5F0218-08	18-Jun-25	
EPA 335.4	Cyanide (total)	mg/L	0.0993	<0.0050	0.100	99.3	90 - 110	X525071 - X5F0218-06	18-Jun-25	
EPA 350.1	Ammonia as N	mg/L	0.948	<0.030	1.00	94.8	90 - 110	X524181 - X5F0102-02	13-Jun-25	
EPA 350.1	Ammonia as N	mg/L	0.915	<0.030	1.00	91.5	90 - 110	X524181 - X5F0110-02	13-Jun-25	
OIA 1677	Cyanide (WAD)	mg/L	0.103	<0.0050	0.100	103	82 - 118	X524109 - X5F0052-02	12-Jun-25	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	116	78.3	3.00	0.30R>S	90 - 110	X524104 - X5F0146-01	10-Jun-25	M4,R2B
EPA 300.0	Fluoride	mg/L	1.55	0.210	2.00	66.8	90 - 110	X524104 - X5F0146-01	10-Jun-25	M2
EPA 300.0	Nitrate as N	mg/L	30.4	18.9	2.00	0.30R>S	90 - 110	X524104 - X5F0146-01	10-Jun-25	M4,R2B
EPA 300.0	Nitrate+Nitrite as N	mg/L	32.3	18.9	4.00	0.30R>S	90 - 110	X524104 - X5F0146-01	10-Jun-25	M4,R2B
EPA 300.0	Nitrite as N	mg/L	1.93	<0.050	2.00	96.7	90 - 110	X524104 - X5F0146-01	10-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	739	494	10.0	0.30R>S	90 - 110	X524104 - X5F0146-01	10-Jun-25	M4,R2B



Cripple Creek & Victor Gold Mining Company

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5F0145**

Reported: 24-Jun-25 11:10

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	360	365	20.0	2.0	20	0.30R>S	X525188 - X5F0138-01	M3
EPA 200.7	Magnesium	mg/L	49.8	50.1	20.0	0.5	20	94.0	X525188 - X5F0138-01	
EPA 200.7	Potassium	mg/L	29.4	29.6	20.0	0.7	20	98.4	X525188 - X5F0138-01	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	892	889	1.00	0.3	20	0.30R>S	X525019 - X5F0170-02	M4
EPA 200.7	Barium	mg/L	0.945	0.932	1.00	1.4	20	93.5	X525019 - X5F0170-02	
EPA 200.7	Beryllium	mg/L	1.60	1.60	1.00	0.2	20	97.5	X525019 - X5F0170-02	
EPA 200.7	Boron	mg/L	1.05	1.03	1.00	1.1	20	103	X525019 - X5F0170-02	
EPA 200.7	Cadmium	mg/L	2.65	2.64	1.00	0.6	20	90.0	X525019 - X5F0170-02	
EPA 200.7	Calcium	mg/L	420	421	20.0	0.3	20	98.5	X525019 - X5F0170-02	
EPA 200.7	Chromium	mg/L	1.10	1.09	1.00	0.5	20	93.1	X525019 - X5F0170-02	
EPA 200.7	Cobalt	mg/L	2.48	2.47	1.00	0.5	20	90.6	X525019 - X5F0170-02	
EPA 200.7	Copper	mg/L	5.34	5.35	1.00	0.3	20	105	X525019 - X5F0170-02	
EPA 200.7	Iron	mg/L	49.2	49.3	10.0	0.1	20	94.6	X525019 - X5F0170-02	
EPA 200.7	Lead	mg/L	0.942	0.929	1.00	1.3	20	92.9	X525019 - X5F0170-02	
EPA 200.7	Lithium	mg/L	1.65	1.63	1.00	1.1	20	132	X525019 - X5F0170-02	M1
EPA 200.7	Magnesium	mg/L	389	388	20.0	0.2	20	111	X525019 - X5F0170-02	
EPA 200.7	Manganese	mg/L	268	268	1.00	0.0	20	122	X525019 - X5F0170-02	
EPA 200.7	Molybdenum	mg/L	0.983	0.970	1.00	1.4	20	95.4	X525019 - X5F0170-02	
EPA 200.7	Nickel	mg/L	3.59	3.58	1.00	0.4	20	90.9	X525019 - X5F0170-02	
EPA 200.7	Potassium	mg/L	19.7	19.5	20.0	1.1	20	98.7	X525019 - X5F0170-02	
EPA 200.7	Silver	mg/L	0.242	0.241	0.0500	0.3	20	106	X525019 - X5F0170-02	
EPA 200.7	Sodium	mg/L	52.6	52.5	19.0	0.2	20	103	X525019 - X5F0170-02	
EPA 200.7	Vanadium	mg/L	0.208	0.200	1.00	3.9	20	20.8	X525019 - X5F0170-02	E12,M2
EPA 200.7	Zinc	mg/L	78.7	78.1	1.00	0.9	20	0.30R>S	X525019 - X5F0170-02	M4
EPA 200.8	Antimony	mg/L	0.0256	0.0248	0.0250	3.4	20	103	X525061 - X5F0145-01	
EPA 200.8	Arsenic	mg/L	0.0343	0.0334	0.0250	2.6	20	110	X525061 - X5F0145-01	
EPA 200.8	Selenium	mg/L	0.0299	0.0286	0.0250	4.4	20	112	X525061 - X5F0145-01	
EPA 200.8	Thallium	mg/L	0.0281	0.0268	0.0250	4.7	20	112	X525061 - X5F0145-01	
EPA 200.8	Uranium	mg/L	0.0411	0.0396	0.0250	3.7	20	118	X525061 - X5F0145-01	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00221	0.00216	0.00200	2.4	20	111	X524040 - X5F0101-01	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.103	0.102	0.100	1.2	11	103	X524068 - X5F0112-01	
EPA 335.4	Cyanide (total)	mg/L	0.102	0.102	0.100	0.4	20	102	X525071 - X5F0218-08	
EPA 350.1	Ammonia as N	mg/L	0.941	0.948	1.00	0.8	20	94.1	X524181 - X5F0102-02	
OIA 1677	Cyanide (WAD)	mg/L	0.102	0.103	0.100	0.9	11	102	X524109 - X5F0052-02	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	78.7	116	3.00	38.4	20	0.30R>S	X524104 - X5F0146-01	M4,R2B
EPA 300.0	Fluoride	mg/L	1.80	1.55	2.00	15.4	20	79.6	X524104 - X5F0146-01	M2
EPA 300.0	Nitrate as N	mg/L	20.2	30.4	2.00	40.0	20	0.30R>S	X524104 - X5F0146-01	M4,R2B
EPA 300.0	Nitrate+Nitrite as N	mg/L	22.3	32.3	4.00	36.8	20	0.30R>S	X524104 - X5F0146-01	M4,R2B
EPA 300.0	Nitrite as N	mg/L	2.02	1.93	2.00	4.2	20	101	X524104 - X5F0146-01	
EPA 300.0	Sulfate as SO4	mg/L	494	739	10.0	39.8	20	0.30R>S	X524104 - X5F0146-01	M4,R2B



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Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0145**

Reported: 24-Jun-25 11:10

Notes and Definitions

E12	The reported value is estimated due to the presence of interferents.
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.
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



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www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0378**

Reported: 08-Jul-25 14:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
OSABH-117E	X5F0378-01	Ground Water	23-Jun-25 12:45	TR	24-Jun-2025	Q5,Q5 C

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: X5F0378

The state of origin only accredits for drinking water analyses.

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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0378**

Reported: 08-Jul-25 14:43

Client Sample ID: **OSABH-117E**

Sampled: 23-Jun-25 12:45

Received: 24-Jun-25

Sampled By: TR

SVL Sample ID: **X5F0378-01 (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	404	mg/L	10.0	6.90	100	X527048	MAC	07/03/25 13:25	D18,D20
EPA 200.7	Magnesium	1670	mg/L	5.00	0.900	10	X527048	MAC	07/02/25 15:29	D18,D20
EPA 200.7	Potassium	< 5.00	mg/L	5.00	1.80	10	X527048	MAC	07/02/25 15:29	D20,D18
SM 2340 B	Hardness (as CaCO3)	7870	mg/L	45.6	20.9		N/A		06/27/25 10:15	

Metals (Dissolved)

EPA 200.7	Aluminum	4140	mg/L	0.800	0.540	10	X526190	NMS	06/27/25 10:15	D11,D18
EPA 200.7	Barium	< 0.0200	mg/L	0.0200	0.0190	10	X526190	NMS	06/27/25 10:15	D11,D18
EPA 200.7	Beryllium	0.761	mg/L	0.0200	0.00800	10	X526190	NMS	06/27/25 10:15	D11,D18
EPA 200.7	Boron	< 0.400	mg/L	0.400	0.0780	10	X526190	NMS	06/27/25 10:15	D11,D18
EPA 200.7	Cadmium	8.81	mg/L	0.0200	0.0160	10	X526190	NMS	06/27/25 10:15	D11,D18
EPA 200.7	Calcium	437	mg/L	1.00	0.690	10	X526190	NMS	06/27/25 10:15	D11,D18
EPA 200.7	Chromium	0.716	mg/L	0.0600	0.0200	10	X526190	NMS	06/27/25 10:15	D11,D18
EPA 200.7	Cobalt	19.6	mg/L	0.0600	0.0460	10	X526190	NMS	06/27/25 10:15	D11,D18
EPA 200.7	Copper	15.0	mg/L	0.100	0.0270	10	X526190	NMS	06/27/25 10:15	D11,D18
EPA 200.7	Iron	72.4	mg/L	1.00	0.560	10	X526190	NMS	06/27/25 10:15	D11,D18
EPA 200.7	Lead	< 0.0750	mg/L	0.0750	0.0490	10	X526190	NMS	06/27/25 10:15	D11,D18
EPA 200.7	Lithium	2.20	mg/L	0.400	0.250	10	X526190	NMS	06/27/25 10:15	D11,D18
EPA 200.7	Magnesium	1670	mg/L	5.00	0.900	10	X526190	NMS	06/27/25 10:15	D11,D18
EPA 200.7	Manganese	1480	mg/L	8.00	3.40	1000	X526190	NMS	06/27/25 11:37	D11,D18
EPA 200.7	Molybdenum	< 0.0800	mg/L	0.0800	0.0340	10	X526190	NMS	06/27/25 10:15	D11,D18
EPA 200.7	Nickel	16.0	mg/L	0.100	0.0480	10	X526190	NMS	06/27/25 10:15	D11,D18
EPA 200.7	Potassium	< 5.00	mg/L	5.00	1.80	10	X526190	NMS	06/27/25 10:15	D11,D18
EPA 200.7	Silver	< 0.0500	mg/L	0.0500	0.0190	10	X526190	NMS	06/27/25 10:15	D11,D18
EPA 200.7	Sodium	13.5	mg/L	5.00	1.20	10	X526190	NMS	06/27/25 10:15	D11,D18
EPA 200.7	Vanadium	< 0.0500	mg/L	0.0500	0.0190	10	X526190	NMS	06/27/25 10:15	D11,D18
EPA 200.7	Zinc	323	mg/L	0.100	0.0540	10	X526190	NMS	06/27/25 10:15	D11,D18
EPA 200.8	Antimony	< 0.0200	mg/L	0.0200	0.0144	20	X527111	NMS	07/08/25 08:50	D11
EPA 200.8	Arsenic	0.565	mg/L	0.0200	0.00420	20	X527111	NMS	07/08/25 08:50	D11
EPA 200.8	Selenium	0.0615	mg/L	0.0200	0.00480	20	X527111	NMS	07/08/25 08:50	D11
EPA 200.8	Thallium	< 0.00400	mg/L	0.00400	0.00160	20	X527111	NMS	07/08/25 08:50	D11
EPA 200.8	Uranium	13.5	mg/L	0.00200	0.00104	20	X527111	NMS	07/08/25 08:50	D11

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X526144	MAC	06/26/25 17:30	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0500	mg/L	0.0500	0.0480	10	X526098	ORW	06/26/25 12:22	D14
EPA 335.4	Cyanide (total)	0.0208	mg/L	0.0050	0.0038		X527003	JPM	07/01/25 10:14	
EPA 350.1	Ammonia as N	0.032	mg/L	0.030	0.013		X526160	ORW	06/27/25 13:16	
OIA 1677	Cyanide (WAD)	< 0.0500	mg/L	0.0500	0.0100	10	X526097	ORW	06/26/25 16:00	D14
SM 2310 B	Acidity to pH 8.3	21700	mg/L as CaCO3	10.0			X528009	MWD	07/07/25 09:39	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X527056	MWD	07/02/25 08:14	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X527056	MWD	07/02/25 08:14	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X527056	MWD	07/02/25 08:14	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X527056	MWD	07/02/25 08:14	
SM 2540 C	Total Diss. Solids	47400	mg/L	10			X526109	TJL	06/26/25 13:00	E11
SM 2540 D	Total Susp. Solids	115	mg/L	5.0			X526111	TJL	06/26/25 11:50	
SM 4500 H B	pH @21.4°C	3.0	pH Units				X527056	MWD	07/02/25 08:14	H5



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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5F0378 Reported: 08-Jul-25 14:43
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Client Sample ID: **OSABH-117E**
SVL Sample ID: **X5F0378-01 (Ground Water)**

Sampled: 23-Jun-25 12:45
Received: 24-Jun-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	21.0	mg/L	2.00	0.22	10	X526083	RS	06/24/25 16:58	
EPA 300.0	Fluoride	577	mg/L	25.0	4.25	250	X526083	RS	06/24/25 17:13	
EPA 300.0	Nitrate as N	4.85	mg/L	0.500	0.130	10	X526083	RS	06/24/25 16:58	D18
EPA 300.0	Nitrate+Nitrite as N	4.85	mg/L	1.00	0.440	10	X526083	RS	06/24/25 16:58	D18
EPA 300.0	Nitrite as N	< 0.500	mg/L	0.500	0.310	10	X526083	RS	06/24/25 16:58	D18
EPA 300.0	Sulfate as SO4	31800	mg/L	750	450	2500	X526083	RS	06/25/25 12:09	

Cation/Anion Balance and TDS Ratios										
Cation Sum: 686 meq/L		Anion Sum: 693 meq/L		C/A Balance: -0.55 %		Calculated TDS: 34523		TDS/cTDS: 1.37		

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

Kristi A. Groth

Kristi A. Groth
Project Manager

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0378**

Reported: 08-Jul-25 14:43

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	X527048	03-Jul-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X527048	02-Jul-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X527048	02-Jul-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X526190	27-Jun-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X526190	27-Jun-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X526190	27-Jun-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X526190	27-Jun-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X526190	27-Jun-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X526190	27-Jun-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X526190	27-Jun-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X526190	27-Jun-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X526190	27-Jun-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X526190	27-Jun-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X526190	27-Jun-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X526190	27-Jun-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X526190	27-Jun-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X526190	27-Jun-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X526190	27-Jun-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X526190	27-Jun-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X526190	27-Jun-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X526190	27-Jun-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X526190	27-Jun-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X526190	27-Jun-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X526190	27-Jun-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X527111	08-Jul-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X527111	08-Jul-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X527111	08-Jul-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X527111	08-Jul-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X527111	08-Jul-25	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X526144	26-Jun-25	
Classical Chemistry Parameters								
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X526098	26-Jun-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X527003	01-Jul-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X526160	27-Jun-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X526097	26-Jun-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X528009	07-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X527056	01-Jul-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X527056	01-Jul-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X527056	01-Jul-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X527056	01-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X526109	26-Jun-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X526111	26-Jun-25	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X526083	24-Jun-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X526083	24-Jun-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X526083	24-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X526083	24-Jun-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X526083	24-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X526083	24-Jun-25	

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0378**

Reported: 08-Jul-25 14:43

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	18.8	20.0	94	85 - 115	X527048	03-Jul-25	
EPA 200.7	Magnesium	mg/L	19.0	20.0	95.2	85 - 115	X527048	02-Jul-25	
EPA 200.7	Potassium	mg/L	19.3	20.0	96.4	85 - 115	X527048	02-Jul-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.00	1.00	100	85 - 115	X526190	27-Jun-25	
EPA 200.7	Barium	mg/L	1.02	1.00	102	85 - 115	X526190	27-Jun-25	
EPA 200.7	Beryllium	mg/L	1.02	1.00	102	85 - 115	X526190	27-Jun-25	
EPA 200.7	Boron	mg/L	1.02	1.00	102	85 - 115	X526190	27-Jun-25	
EPA 200.7	Cadmium	mg/L	1.00	1.00	100	85 - 115	X526190	27-Jun-25	
EPA 200.7	Calcium	mg/L	20.4	20.0	102	85 - 115	X526190	27-Jun-25	
EPA 200.7	Chromium	mg/L	1.03	1.00	103	85 - 115	X526190	27-Jun-25	
EPA 200.7	Cobalt	mg/L	0.987	1.00	98.7	85 - 115	X526190	27-Jun-25	
EPA 200.7	Copper	mg/L	0.997	1.00	99.7	85 - 115	X526190	27-Jun-25	
EPA 200.7	Iron	mg/L	10.2	10.0	102	85 - 115	X526190	27-Jun-25	
EPA 200.7	Lead	mg/L	1.01	1.00	101	85 - 115	X526190	27-Jun-25	
EPA 200.7	Lithium	mg/L	0.995	1.00	99.5	85 - 115	X526190	27-Jun-25	
EPA 200.7	Magnesium	mg/L	19.7	20.0	98.3	85 - 115	X526190	27-Jun-25	
EPA 200.7	Manganese	mg/L	1.03	1.00	103	85 - 115	X526190	27-Jun-25	
EPA 200.7	Molybdenum	mg/L	1.05	1.00	105	85 - 115	X526190	27-Jun-25	
EPA 200.7	Nickel	mg/L	0.993	1.00	99.3	85 - 115	X526190	27-Jun-25	
EPA 200.7	Potassium	mg/L	20.5	20.0	102	85 - 115	X526190	27-Jun-25	
EPA 200.7	Silver	mg/L	0.0499	0.0500	99.9	85 - 115	X526190	27-Jun-25	
EPA 200.7	Sodium	mg/L	19.5	19.0	103	85 - 115	X526190	27-Jun-25	
EPA 200.7	Vanadium	mg/L	1.03	1.00	103	85 - 115	X526190	27-Jun-25	
EPA 200.7	Zinc	mg/L	0.993	1.00	99.3	85 - 115	X526190	27-Jun-25	
EPA 200.8	Antimony	mg/L	0.0268	0.0250	107	85 - 115	X527111	08-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0264	0.0250	105	85 - 115	X527111	08-Jul-25	
EPA 200.8	Selenium	mg/L	0.0248	0.0250	99.1	85 - 115	X527111	08-Jul-25	
EPA 200.8	Thallium	mg/L	0.0273	0.0250	109	85 - 115	X527111	08-Jul-25	
EPA 200.8	Uranium	mg/L	0.0281	0.0250	112	85 - 115	X527111	08-Jul-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00206	0.00200	103	85 - 115	X526144	26-Jun-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0981	0.100	98.1	90 - 110	X526098	26-Jun-25	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X527003	01-Jul-25	
EPA 350.1	Ammonia as N	mg/L	1.02	1.00	102	90 - 110	X526160	27-Jun-25	
OIA 1677	Cyanide (WAD)	mg/L	0.101	0.100	101	90 - 110	X526097	26-Jun-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1200	1180	101	95.4 - 104	X528009	07-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.90	9.93	99.7	94 - 106	X527056	01-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	96.7	99.3	97.4	94 - 106	X527056	02-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	402	397	101	94 - 106	X527056	02-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	218	250	87.2	85 - 115	X526109	26-Jun-25	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X526111	26-Jun-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	2.96	3.00	98.8	90 - 110	X526083	24-Jun-25	
EPA 300.0	Fluoride	mg/L	1.79	2.00	89.3	90 - 110	X526083	24-Jun-25	M2
EPA 300.0	Nitrate as N	mg/L	1.97	2.00	98.4	90 - 110	X526083	24-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.50	4.50	100	90 - 110	X526083	24-Jun-25	
EPA 300.0	Nitrite as N	mg/L	2.53	2.50	101	90 - 110	X526083	24-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	9.93	10.0	99.3	90 - 110	X526083	24-Jun-25	

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82
Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5F0378**
Reported: 08-Jul-25 14:43

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	21700	21700	0.0	20	X528009 - X5F0376-01	07-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X527056 - X5F0376-02	02-Jul-25	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X527056 - X5F0376-02	02-Jul-25	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X527056 - X5F0376-02	02-Jul-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X527056 - X5F0376-02	02-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	1090	1060	2.8	10	X526109 - X5F0376-02	26-Jun-25	
SM 2540 C	Total Diss. Solids	mg/L	807	808	0.1	10	X526109 - X5F0383-05	26-Jun-25	
SM 2540 D	Total Susp. Solids	mg/L	103	6.0	178.0	10	X526111 - X5F0376-02	26-Jun-25	R2B
SM 4500 H B	pH @21.4°C	pH Units	4.3	4.6	7.5	20	X527056 - X5F0376-02	02-Jul-25	R2B

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	30.3	11.4	20.0	94	70 - 130	X527048 - X5F0357-01	03-Jul-25	
EPA 200.7	Calcium	mg/L	310	292	20.0	87	70 - 130	X527048 - X5F0383-02	03-Jul-25	
EPA 200.7	Magnesium	mg/L	24.2	4.75	20.0	97.3	70 - 130	X527048 - X5F0357-01	02-Jul-25	
EPA 200.7	Magnesium	mg/L	55.0	32.9	20.0	110	70 - 130	X527048 - X5F0383-02	02-Jul-25	
EPA 200.7	Potassium	mg/L	20.7	1.49	20.0	96.3	70 - 130	X527048 - X5F0357-01	02-Jul-25	
EPA 200.7	Potassium	mg/L	22.2	1.53	20.0	103	70 - 130	X527048 - X5F0383-02	02-Jul-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.974	<0.080	1.00	97.4	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Aluminum	mg/L	8.50	7.40	1.00	110	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Barium	mg/L	0.981	0.0101	1.00	97.1	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Barium	mg/L	1.02	0.0100	1.00	101	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Beryllium	mg/L	1.00	<0.00200	1.00	100	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Beryllium	mg/L	1.03	<0.00200	1.00	103	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Boron	mg/L	0.991	<0.0400	1.00	99.1	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Boron	mg/L	1.04	<0.0400	1.00	104	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Cadmium	mg/L	0.992	<0.0020	1.00	99.2	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Cadmium	mg/L	1.06	0.0448	1.00	102	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Calcium	mg/L	34.6	15.3	20.0	96.3	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Calcium	mg/L	147	128	20.0	96.9	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Chromium	mg/L	1.00	<0.0060	1.00	100	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Chromium	mg/L	1.04	0.0133	1.00	103	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Cobalt	mg/L	0.965	<0.0060	1.00	96.5	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Cobalt	mg/L	1.04	0.0523	1.00	98.5	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Copper	mg/L	0.954	<0.0100	1.00	95.4	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Copper	mg/L	1.50	0.449	1.00	106	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Iron	mg/L	9.87	<0.100	10.0	98.7	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Iron	mg/L	73.6	63.8	10.0	97.6	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Lead	mg/L	1.00	<0.0075	1.00	100	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Lead	mg/L	1.03	<0.0075	1.00	103	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Lithium	mg/L	0.954	<0.040	1.00	95.4	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Lithium	mg/L	1.08	0.046	1.00	104	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Magnesium	mg/L	19.5	<0.500	20.0	97.4	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Magnesium	mg/L	25.6	5.38	20.0	101	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Manganese	mg/L	1.01	<0.0080	1.00	101	70 - 130	X526190 - X5F0418-01	27-Jun-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



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Cripple Creek & Victor Gold Mining Company
Ironclad Security 1632 County Rd 82
Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5F0378**

Reported: 08-Jul-25 14:43

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	3.56	2.55	1.00	102	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Molybdenum	mg/L	1.02	<0.0080	1.00	102	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Molybdenum	mg/L	1.03	<0.0080	1.00	103	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Nickel	mg/L	0.975	<0.0100	1.00	97.5	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Nickel	mg/L	1.39	0.392	1.00	100	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Potassium	mg/L	19.9	<0.50	20.0	99.6	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Potassium	mg/L	21.0	<0.50	20.0	104	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Silver	mg/L	0.0482	<0.0050	0.0500	96.4	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Silver	mg/L	0.0512	<0.0050	0.0500	102	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Sodium	mg/L	19.2	<0.50	19.0	99.4	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Sodium	mg/L	21.2	1.18	19.0	105	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Vanadium	mg/L	1.01	<0.0050	1.00	101	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Vanadium	mg/L	1.04	0.0089	1.00	104	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Zinc	mg/L	0.991	<0.0100	1.00	99.1	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Zinc	mg/L	3.69	2.68	1.00	101	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.8	Antimony	mg/L	0.0248	<0.00100	0.0250	99.3	70 - 130	X527111 - X5F0463-01	08-Jul-25	
EPA 200.8	Antimony	mg/L	0.0257	<0.00100	0.0250	103	70 - 130	X527111 - X5F0476-01	08-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0270	<0.00100	0.0250	106	70 - 130	X527111 - X5F0463-01	08-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0258	<0.00100	0.0250	103	70 - 130	X527111 - X5F0476-01	08-Jul-25	
EPA 200.8	Selenium	mg/L	0.0333	0.00737	0.0250	104	70 - 130	X527111 - X5F0463-01	08-Jul-25	
EPA 200.8	Selenium	mg/L	0.0276	<0.00100	0.0250	110	70 - 130	X527111 - X5F0476-01	08-Jul-25	
EPA 200.8	Thallium	mg/L	0.0247	<0.000200	0.0250	98.8	70 - 130	X527111 - X5F0463-01	08-Jul-25	
EPA 200.8	Thallium	mg/L	0.0236	<0.000200	0.0250	94.3	70 - 130	X527111 - X5F0476-01	08-Jul-25	
EPA 200.8	Uranium	mg/L	0.0314	0.00351	0.0250	112	70 - 130	X527111 - X5F0463-01	08-Jul-25	
EPA 200.8	Uranium	mg/L	0.0259	0.000198	0.0250	103	70 - 130	X527111 - X5F0476-01	08-Jul-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00217	<0.000200	0.00200	102	70 - 130	X526144 - X5F0376-01	26-Jun-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.100	<0.0050	0.100	100	79 - 121	X526098 - X5F0376-02	26-Jun-25	
EPA 335.4	Cyanide (total)	mg/L	0.0138	<0.0050	0.100	13.8	90 - 110	X527003 - X5F0410-01	01-Jul-25	M2,R2B
EPA 335.4	Cyanide (total)	mg/L	0.0545	<0.0050	0.100	54.5	90 - 110	X527003 - X5F0376-02	01-Jul-25	M2
EPA 350.1	Ammonia as N	mg/L	1.10	0.093	1.00	100	90 - 110	X526160 - X5F0383-05	27-Jun-25	R2B
EPA 350.1	Ammonia as N	mg/L	0.998	<0.030	1.00	99.8	90 - 110	X526160 - X5F0383-04	27-Jun-25	
OIA 1677	Cyanide (WAD)	mg/L	0.126	<0.0050	0.100	126	82 - 118	X526097 - X5F0376-03	26-Jun-25	M1

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	18.9	16.7	3.00	0.30R>S	90 - 110	X526083 - X5F0376-03	24-Jun-25	M4
EPA 300.0	Fluoride	mg/L	1.93	0.173	2.00	88.0	90 - 110	X526083 - X5F0376-03	24-Jun-25	M2
EPA 300.0	Nitrate as N	mg/L	1.75	0.057	2.00	84.8	90 - 110	X526083 - X5F0376-03	24-Jun-25	M2
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.82	0.107	4.00	92.8	90 - 110	X526083 - X5F0376-03	24-Jun-25	
EPA 300.0	Nitrite as N	mg/L	2.06	<0.050	2.00	101	90 - 110	X526083 - X5F0376-03	24-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	396	394	10.0	0.30R>S	90 - 110	X526083 - X5F0376-03	24-Jun-25	M4

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0378**

Reported: 08-Jul-25 14:43

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	30.0	30.3	20.0	1.0	20	93	X527048 - X5F0357-01	
EPA 200.7	Magnesium	mg/L	24.1	24.2	20.0	0.3	20	97.0	X527048 - X5F0357-01	
EPA 200.7	Potassium	mg/L	20.8	20.7	20.0	0.3	20	96.6	X527048 - X5F0357-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	0.974	1.00	3.5	20	101	X526190 - X5F0418-01	
EPA 200.7	Barium	mg/L	1.03	0.981	1.00	4.9	20	102	X526190 - X5F0418-01	
EPA 200.7	Beryllium	mg/L	1.01	1.00	1.00	1.0	20	101	X526190 - X5F0418-01	
EPA 200.7	Boron	mg/L	1.02	0.991	1.00	2.5	20	102	X526190 - X5F0418-01	
EPA 200.7	Cadmium	mg/L	0.992	0.992	1.00	0.0	20	99.2	X526190 - X5F0418-01	
EPA 200.7	Calcium	mg/L	35.0	34.6	20.0	1.1	20	98.3	X526190 - X5F0418-01	
EPA 200.7	Chromium	mg/L	1.01	1.00	1.00	1.1	20	101	X526190 - X5F0418-01	
EPA 200.7	Cobalt	mg/L	0.964	0.965	1.00	0.1	20	96.4	X526190 - X5F0418-01	
EPA 200.7	Copper	mg/L	0.965	0.954	1.00	1.1	20	96.5	X526190 - X5F0418-01	
EPA 200.7	Iron	mg/L	10.0	9.87	10.0	1.5	20	100	X526190 - X5F0418-01	
EPA 200.7	Lead	mg/L	1.00	1.00	1.00	0.2	20	100	X526190 - X5F0418-01	
EPA 200.7	Lithium	mg/L	0.985	0.954	1.00	3.3	20	98.5	X526190 - X5F0418-01	
EPA 200.7	Magnesium	mg/L	19.5	19.5	20.0	0.2	20	97.6	X526190 - X5F0418-01	
EPA 200.7	Manganese	mg/L	1.02	1.01	1.00	1.5	20	102	X526190 - X5F0418-01	
EPA 200.7	Molybdenum	mg/L	1.03	1.02	1.00	0.3	20	103	X526190 - X5F0418-01	
EPA 200.7	Nickel	mg/L	0.975	0.975	1.00	0.1	20	97.5	X526190 - X5F0418-01	
EPA 200.7	Potassium	mg/L	20.1	19.9	20.0	0.8	20	100	X526190 - X5F0418-01	
EPA 200.7	Silver	mg/L	0.0501	0.0482	0.0500	3.9	20	100	X526190 - X5F0418-01	
EPA 200.7	Sodium	mg/L	19.4	19.2	19.0	1.0	20	100	X526190 - X5F0418-01	
EPA 200.7	Vanadium	mg/L	1.03	1.01	1.00	1.6	20	103	X526190 - X5F0418-01	
EPA 200.7	Zinc	mg/L	0.993	0.991	1.00	0.2	20	99.3	X526190 - X5F0418-01	
EPA 200.8	Antimony	mg/L	0.0259	0.0257	0.0250	1.0	20	104	X527111 - X5F0476-01	
EPA 200.8	Arsenic	mg/L	0.0257	0.0258	0.0250	0.3	20	103	X527111 - X5F0476-01	
EPA 200.8	Selenium	mg/L	0.0273	0.0276	0.0250	0.9	20	109	X527111 - X5F0476-01	
EPA 200.8	Thallium	mg/L	0.0237	0.0236	0.0250	0.6	20	94.9	X527111 - X5F0476-01	
EPA 200.8	Uranium	mg/L	0.0257	0.0259	0.0250	0.6	20	102	X527111 - X5F0476-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00224	0.00217	0.00200	3.2	20	105	X526144 - X5F0376-01	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.102	0.100	0.100	1.1	11	102	X526098 - X5F0376-02	
EPA 335.4	Cyanide (total)	mg/L	0.0525	0.0138	0.100	117.0	20	52.5	X527003 - X5F0410-01	M2,R2B
EPA 350.1	Ammonia as N	mg/L	1.34	1.10	1.00	20.2	20	125	X526160 - X5F0383-05	M1,R2B
OIA 1677	Cyanide (WAD)	mg/L	0.140	0.126	0.100	10.9	11	140	X526097 - X5F0376-03	M1
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	18.7	18.9	3.00	1.1	20	0.30R>S	X526083 - X5F0376-03	M4
EPA 300.0	Fluoride	mg/L	2.02	1.93	2.00	4.3	20	92.3	X526083 - X5F0376-03	
EPA 300.0	Nitrate as N	mg/L	2.00	1.75	2.00	13.0	20	97.0	X526083 - X5F0376-03	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.04	3.82	4.00	5.6	20	98.3	X526083 - X5F0376-03	
EPA 300.0	Nitrite as N	mg/L	2.04	2.06	2.00	1.1	20	99.5	X526083 - X5F0376-03	
EPA 300.0	Sulfate as SO4	mg/L	395	396	10.0	0.3	20	0.30R>S	X526083 - X5F0376-03	M4



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www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0378**

Reported: 08-Jul-25 14:43

Notes and Definitions

D11	Due to sample color, a sample dilution was performed to minimize spectral interference.
D14	Due to precipitates evident in sample/digestate, a sample dilution was performed.
D18	Due to a published chemical interference, a sample dilution was performed.
D20	Al@7000+ ppm
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.
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.
Q5	Sample was received with inadequate preservation, but preserved by the laboratory.
Q5C	After two pH adjustments, the method-specified pH was not achieved.
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



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www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0108**

Reported: 20-Jun-25 13:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-137F	X5F0108-01	Ground Water	05-Jun-25 09:40	JC	06-Jun-2025	
RB-0605	X5F0108-02	Ground Water	05-Jun-25 13:50	JC	06-Jun-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: X5F0108

The state of origin only accredits for drinking water analyses.

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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0108**

Reported: 20-Jun-25 13:30

Client Sample ID: **GVMW-137F**

Sampled: 05-Jun-25 09:40

Received: 06-Jun-25

Sampled By: JC

SVL Sample ID: **X5F0108-01 (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	41.3	mg/L	0.100	0.069		X525112	JRR	06/18/25 09:36	
EPA 200.7	Magnesium	10.1	mg/L	0.500	0.090		X525112	JRR	06/18/25 09:36	
EPA 200.7	Potassium	3.41	mg/L	0.50	0.18		X525112	JRR	06/18/25 09:36	
SM 2340 B	Hardness (as CaCO3)	148	mg/L	2.31	0.543		N/A		06/12/25 10:39	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X524077	JRR	06/12/25 10:39	
EPA 200.7	Barium	0.0714	mg/L	0.0020	0.0019		X524077	JRR	06/12/25 10:39	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X524077	JRR	06/12/25 10:39	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X524077	JRR	06/12/25 10:39	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X524077	JRR	06/12/25 10:39	
EPA 200.7	Calcium	42.5	mg/L	0.100	0.069		X524077	JRR	06/12/25 10:39	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X524077	JRR	06/12/25 10:39	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X524077	JRR	06/12/25 10:39	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X524077	JRR	06/12/25 10:39	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X524077	JRR	06/12/25 10:39	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X524077	JRR	06/12/25 10:39	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X524077	JRR	06/12/25 10:39	
EPA 200.7	Magnesium	10.7	mg/L	0.500	0.090		X524077	JRR	06/12/25 10:39	
EPA 200.7	Manganese	0.0349	mg/L	0.0080	0.0034		X524077	JRR	06/12/25 10:39	
EPA 200.7	Molybdenum	0.0214	mg/L	0.0080	0.0034		X524077	JRR	06/12/25 10:39	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X524077	JRR	06/12/25 10:39	
EPA 200.7	Potassium	3.53	mg/L	0.50	0.18		X524077	JRR	06/12/25 10:39	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X524077	JRR	06/12/25 10:39	
EPA 200.7	Sodium	36.8	mg/L	0.50	0.12		X524077	JRR	06/12/25 10:39	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X524077	JRR	06/12/25 10:39	
EPA 200.7	Zinc	0.0105	mg/L	0.0100	0.0054		X524077	JRR	06/12/25 10:39	
EPA 200.8	Antimony	0.00138	mg/L	0.00100	0.00072		X524162	SMU	06/16/25 18:44	
EPA 200.8	Arsenic	0.00230	mg/L	0.00100	0.00021		X524162	SMU	06/16/25 18:44	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X524162	SMU	06/16/25 18:44	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X524162	SMU	06/16/25 18:44	
EPA 200.8	Uranium	0.00283	mg/L	0.000100	0.000052		X524162	SMU	06/16/25 18:44	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X524039	SJN	06/13/25 13:56	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X524068	JPM	06/11/25 11:46	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X524066	ORW	06/11/25 12:10	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X524009	JPM	06/11/25 00:01	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X524109	ORW	06/12/25 12:08	
SM 2310 B	Acidity to pH 8.3	-62.0	mg/L as CaCO3	10.0			X524117	MWD	06/11/25 12:25	
SM 2320 B	Total Alkalinity	58.6	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 18:28	
SM 2320 B	Bicarbonate	51.1	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 18:28	
SM 2320 B	Carbonate	7.5	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 18:28	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 18:28	
SM 2540 C	Total Diss. Solids	333	mg/L	10			X523241	TJL	06/11/25 13:15	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X523242	TJL	06/12/25 14:50	
SM 4500 H B	pH @24.4°C	8.7	pH Units				X524081	MWD	06/10/25 18:28	H5

SVL holds the following certifications:

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

Work order Report Page 2 of 12



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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5F0108 Reported: 20-Jun-25 13:30
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Client Sample ID: **GVMW-137F**
SVL Sample ID: **X5F0108-01 (Ground Water)**

Sampled: 05-Jun-25 09:40
Received: 06-Jun-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	3.90	mg/L	0.20	0.02		X523229	RS	06/06/25 18:26	
EPA 300.0	Fluoride	1.49	mg/L	0.100	0.017		X523229	RS	06/06/25 18:26	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X523229	RS	06/06/25 18:26	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X523229	RS	06/06/25 18:26	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X523229	RS	06/06/25 18:26	
EPA 300.0	Sulfate as SO4	171	mg/L	3.00	1.80	10	X523229	RS	06/06/25 18:42	

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.60 meq/L	Anion Sum: 4.92 meq/L	C/A Balance: -3.44 %	Calculated TDS: 304	TDS/cTDS: 1.09
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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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Cripple Creek & Victor Gold Mining Company
Ironclad Security 1632 County Rd 82
Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X5F0108**
Reported: 20-Jun-25 13:30

Client Sample ID: **RB-0605**
SVL Sample ID: **X5F0108-02 (Ground Water)**

Sampled: 05-Jun-25 13:50
Received: 06-Jun-25
Sampled By: JC

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	0.246	mg/L	0.100	0.069		X525112	JRR	06/18/25 09:40	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X525112	JRR	06/18/25 09:40	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X525112	JRR	06/18/25 09:40	
SM 2340 B	Hardness (as CaCO3)	< 2.31	mg/L	2.31	0.543		N/A		06/18/25 09:40	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X524077	JRR	06/12/25 10:41	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X524077	JRR	06/12/25 10:41	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X524077	JRR	06/12/25 10:41	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X524077	JRR	06/12/25 10:41	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X524077	JRR	06/12/25 10:41	
EPA 200.7	Calcium	0.153	mg/L	0.100	0.069		X524077	JRR	06/12/25 10:41	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X524077	JRR	06/12/25 10:41	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X524077	JRR	06/12/25 10:41	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X524077	JRR	06/12/25 10:41	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X524077	JRR	06/12/25 10:41	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X524077	JRR	06/12/25 10:41	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X524077	JRR	06/12/25 10:41	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X524077	JRR	06/12/25 10:41	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X524077	JRR	06/12/25 10:41	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X524077	JRR	06/12/25 10:41	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X524077	JRR	06/12/25 10:41	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X524077	JRR	06/12/25 10:41	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X524077	JRR	06/12/25 10:41	
EPA 200.7	Sodium	< 0.50	mg/L	0.50	0.12		X524077	JRR	06/12/25 10:41	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X524077	JRR	06/12/25 10:41	
EPA 200.7	Zinc	0.0126	mg/L	0.0100	0.0054		X524077	JRR	06/12/25 10:41	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X524162	SMU	06/16/25 18:47	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X524162	SMU	06/16/25 18:47	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X524162	SMU	06/16/25 18:47	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X524162	SMU	06/16/25 18:47	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X524162	SMU	06/16/25 18:47	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X524039	SJN	06/13/25 13:58	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X524068	JPM	06/11/25 12:02	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X524066	ORW	06/11/25 12:12	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X524009	JPM	06/11/25 00:03	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X524109	ORW	06/12/25 12:11	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X524117	MWD	06/11/25 12:25	
SM 2320 B	Total Alkalinity	1.0	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 18:35	
SM 2320 B	Bicarbonate	1.0	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 18:35	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 18:35	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X524081	MWD	06/10/25 18:35	
SM 2540 C	Total Diss. Solids	< 10	mg/L	10			X523241	TJL	06/11/25 13:15	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X523242	TJL	06/12/25 14:50	
SM 4500 H B	pH @24.5°C	5.2	pH Units				X524081	MWD	06/10/25 18:35	H5



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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5F0108 Reported: 20-Jun-25 13:30
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Client Sample ID: **RB-0605**
SVL Sample ID: **X5F0108-02 (Ground Water)**

Sampled: 05-Jun-25 13:50
Received: 06-Jun-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	0.20	mg/L	0.20	0.02		X523229	RS	06/06/25 18:57	
EPA 300.0	Fluoride	0.373	mg/L	0.100	0.017		X523229	RS	06/06/25 18:57	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X523229	RS	06/06/25 18:57	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X523229	RS	06/06/25 18:57	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X523229	RS	06/06/25 18:57	
EPA 300.0	Sulfate as SO4	0.77	mg/L	0.30	0.18		X523229	RS	06/06/25 18:57	

Cation/Anion Balance and TDS Ratios

Cation Sum: 0.04 meq/L	Anion Sum: 0.06 meq/L	C/A Balance: -25.73 %	Calculated TDS: 2	TDS/cTDS: 0.00
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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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0108**

Reported: 20-Jun-25 13:30

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	X525112	18-Jun-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X525112	18-Jun-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X525112	18-Jun-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X524077	12-Jun-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X524077	12-Jun-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X524077	12-Jun-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X524077	12-Jun-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X524077	12-Jun-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X524077	12-Jun-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X524077	12-Jun-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X524077	12-Jun-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X524077	12-Jun-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X524077	12-Jun-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X524077	12-Jun-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X524077	12-Jun-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X524077	12-Jun-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X524077	12-Jun-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X524077	12-Jun-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X524077	12-Jun-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X524077	12-Jun-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X524077	12-Jun-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X524077	12-Jun-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X524077	12-Jun-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X524077	12-Jun-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X524162	16-Jun-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X524162	16-Jun-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X524162	16-Jun-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X524162	16-Jun-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X524162	16-Jun-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X524039	13-Jun-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X524068	11-Jun-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X524066	11-Jun-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X524009	10-Jun-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X524109	12-Jun-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X524117	11-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X524081	10-Jun-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X524081	10-Jun-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X524081	10-Jun-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X524081	10-Jun-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X523241	11-Jun-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X523242	12-Jun-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X523229	06-Jun-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X523229	06-Jun-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X523229	06-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X523229	06-Jun-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X523229	06-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X523229	06-Jun-25	



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Kellogg, ID 83837-0929

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www.svl.net
Cripple Creek & Victor Gold Mining Company

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5F0108**

Reported: 20-Jun-25 13:30

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	19.0	20.0	95	85 - 115	X525112	18-Jun-25	
EPA 200.7	Magnesium	mg/L	19.0	20.0	95.0	85 - 115	X525112	18-Jun-25	
EPA 200.7	Potassium	mg/L	19.1	20.0	95.3	85 - 115	X525112	18-Jun-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.947	1.00	94.7	85 - 115	X524077	12-Jun-25	
EPA 200.7	Barium	mg/L	0.975	1.00	97.5	85 - 115	X524077	12-Jun-25	
EPA 200.7	Beryllium	mg/L	0.945	1.00	94.5	85 - 115	X524077	12-Jun-25	
EPA 200.7	Boron	mg/L	0.987	1.00	98.7	85 - 115	X524077	12-Jun-25	
EPA 200.7	Cadmium	mg/L	0.944	1.00	94.4	85 - 115	X524077	12-Jun-25	
EPA 200.7	Calcium	mg/L	19.0	20.0	94.9	85 - 115	X524077	12-Jun-25	
EPA 200.7	Chromium	mg/L	0.957	1.00	95.7	85 - 115	X524077	12-Jun-25	
EPA 200.7	Cobalt	mg/L	0.925	1.00	92.5	85 - 115	X524077	12-Jun-25	
EPA 200.7	Copper	mg/L	0.940	1.00	94.0	85 - 115	X524077	12-Jun-25	
EPA 200.7	Iron	mg/L	9.63	10.0	96.3	85 - 115	X524077	12-Jun-25	
EPA 200.7	Lead	mg/L	0.940	1.00	94.0	85 - 115	X524077	12-Jun-25	
EPA 200.7	Lithium	mg/L	0.907	1.00	90.7	85 - 115	X524077	12-Jun-25	
EPA 200.7	Magnesium	mg/L	19.2	20.0	95.9	85 - 115	X524077	12-Jun-25	
EPA 200.7	Manganese	mg/L	0.949	1.00	94.9	85 - 115	X524077	12-Jun-25	
EPA 200.7	Molybdenum	mg/L	0.950	1.00	95.0	85 - 115	X524077	12-Jun-25	
EPA 200.7	Nickel	mg/L	0.932	1.00	93.2	85 - 115	X524077	12-Jun-25	
EPA 200.7	Potassium	mg/L	19.3	20.0	96.5	85 - 115	X524077	12-Jun-25	
EPA 200.7	Silver	mg/L	0.0494	0.0500	98.8	85 - 115	X524077	12-Jun-25	
EPA 200.7	Sodium	mg/L	18.1	19.0	95.5	85 - 115	X524077	12-Jun-25	
EPA 200.7	Vanadium	mg/L	0.969	1.00	96.9	85 - 115	X524077	12-Jun-25	
EPA 200.7	Zinc	mg/L	0.990	1.00	99.0	85 - 115	X524077	12-Jun-25	
EPA 200.8	Antimony	mg/L	0.0272	0.0250	109	85 - 115	X524162	16-Jun-25	
EPA 200.8	Arsenic	mg/L	0.0281	0.0250	112	85 - 115	X524162	16-Jun-25	
EPA 200.8	Selenium	mg/L	0.0285	0.0250	114	85 - 115	X524162	16-Jun-25	
EPA 200.8	Thallium	mg/L	0.0260	0.0250	104	85 - 115	X524162	16-Jun-25	
EPA 200.8	Uranium	mg/L	0.0265	0.0250	106	85 - 115	X524162	16-Jun-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00208	0.00200	104	85 - 115	X524039	13-Jun-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0994	0.100	99.4	90 - 110	X524068	11-Jun-25	
EPA 335.4	Cyanide (total)	mg/L	0.105	0.100	105	90 - 110	X524066	11-Jun-25	
EPA 350.1	Ammonia as N	mg/L	0.987	1.00	98.7	90 - 110	X524009	10-Jun-25	
OIA 1677	Cyanide (WAD)	mg/L	0.101	0.100	101	90 - 110	X524109	12-Jun-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1150	1180	97.7	95.4 - 104	X524117	11-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.60	9.93	96.7	94 - 106	X524081	10-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	99.1	99.3	99.8	94 - 106	X524081	10-Jun-25	
SM 2540 C	Total Diss. Solids	mg/L	255	250	102	85 - 115	X523241	11-Jun-25	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X523242	12-Jun-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.17	3.00	106	90 - 110	X523229	06-Jun-25	
EPA 300.0	Fluoride	mg/L	2.10	2.00	105	90 - 110	X523229	06-Jun-25	
EPA 300.0	Nitrate as N	mg/L	2.12	2.00	106	90 - 110	X523229	06-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.78	4.50	106	90 - 110	X523229	06-Jun-25	
EPA 300.0	Nitrite as N	mg/L	2.65	2.50	106	90 - 110	X523229	06-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	10.6	10.0	106	90 - 110	X523229	06-Jun-25	

SVL holds the following certifications:

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

Work order Report Page 7 of 12

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0108**

Reported: 20-Jun-25 13:30

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	106000	106000	0.0	20	X524117 - X5E0481-01	11-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	123	123	0.0	20	X524081 - X5E0457-02	10-Jun-25	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	123	123	0.0	20	X524081 - X5E0457-02	10-Jun-25	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X524081 - X5E0457-02	10-Jun-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X524081 - X5E0457-02	10-Jun-25	
SM 2540 C	Total Diss. Solids	mg/L	196	179	9.1	10	X523241 - X5F0102-02	11-Jun-25	
SM 2540 C	Total Diss. Solids	mg/L	315	317	0.6	10	X523241 - X5F0114-02	11-Jun-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X523242 - X5F0102-02	12-Jun-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X523242 - X5F0114-02	12-Jun-25	
SM 4500 H B	pH @23.5°C	pH Units	8.2	8.2	0.1	20	X524081 - X5E0457-02	10-Jun-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	29.1	10.3	20.0	94	70 - 130	X525112 - X5F0102-01	18-Jun-25	
EPA 200.7	Calcium	mg/L	57.3	38.3	20.0	95	70 - 130	X525112 - X5F0110-06	18-Jun-25	
EPA 200.7	Magnesium	mg/L	21.1	2.12	20.0	95.1	70 - 130	X525112 - X5F0102-01	18-Jun-25	
EPA 200.7	Magnesium	mg/L	40.7	21.2	20.0	97.4	70 - 130	X525112 - X5F0110-06	18-Jun-25	
EPA 200.7	Potassium	mg/L	19.7	0.80	20.0	94.3	70 - 130	X525112 - X5F0102-01	18-Jun-25	
EPA 200.7	Potassium	mg/L	20.8	1.99	20.0	94.2	70 - 130	X525112 - X5F0110-06	18-Jun-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.976	<0.080	1.00	97.6	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Aluminum	mg/L	0.980	<0.080	1.00	98.0	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Barium	mg/L	1.17	0.208	1.00	96.4	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Barium	mg/L	1.03	0.0530	1.00	97.7	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Beryllium	mg/L	0.955	<0.00200	1.00	95.5	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Beryllium	mg/L	0.943	<0.00200	1.00	94.3	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Boron	mg/L	1.02	<0.0400	1.00	101	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Boron	mg/L	1.03	<0.0400	1.00	101	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Cadmium	mg/L	0.946	<0.0020	1.00	94.6	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Cadmium	mg/L	0.949	<0.0020	1.00	94.9	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Calcium	mg/L	65.7	46.7	20.0	94.9	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Calcium	mg/L	39.5	20.3	20.0	96.1	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Chromium	mg/L	0.959	<0.0060	1.00	95.9	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Chromium	mg/L	0.962	<0.0060	1.00	96.2	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Cobalt	mg/L	0.917	<0.0060	1.00	91.7	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Cobalt	mg/L	0.953	0.0297	1.00	92.3	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Copper	mg/L	0.932	<0.0100	1.00	93.2	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Copper	mg/L	0.958	<0.0100	1.00	95.8	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Iron	mg/L	11.0	1.27	10.0	97.2	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Iron	mg/L	43.0	33.8	10.0	92.2	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Lead	mg/L	0.941	<0.0075	1.00	94.1	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Lead	mg/L	0.942	<0.0075	1.00	94.2	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Lithium	mg/L	0.970	<0.040	1.00	97.0	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Lithium	mg/L	0.987	<0.040	1.00	98.7	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Magnesium	mg/L	41.6	21.5	20.0	100	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Maenesium	mg/L	38.6	18.5	20.0	101	70 - 130	X524077 - X5F0110-05	12-Jun-25	

SVL holds the following certifications:

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

Work order Report Page 8 of 12

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0108**

Reported: 20-Jun-25 13:30

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	1.18	0.237	1.00	94.5	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Manganese	mg/L	2.87	1.93	1.00	93.5	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Molybdenum	mg/L	0.958	<0.0080	1.00	95.8	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Molybdenum	mg/L	0.955	<0.0080	1.00	95.5	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Nickel	mg/L	0.926	<0.0100	1.00	92.0	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Nickel	mg/L	0.993	0.0709	1.00	92.2	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Potassium	mg/L	20.7	1.05	20.0	98.2	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Potassium	mg/L	21.7	1.91	20.0	99.0	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Silver	mg/L	0.0499	<0.0050	0.0500	99.8	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Silver	mg/L	0.0499	<0.0050	0.0500	99.8	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Sodium	mg/L	28.4	10.2	19.0	95.8	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Sodium	mg/L	31.8	13.5	19.0	96.4	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Vanadium	mg/L	0.973	<0.0050	1.00	97.3	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Vanadium	mg/L	0.980	<0.0050	1.00	98.0	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.7	Zinc	mg/L	1.02	0.0128	1.00	101	70 - 130	X524077 - X5F0052-03	12-Jun-25	
EPA 200.7	Zinc	mg/L	1.27	0.266	1.00	101	70 - 130	X524077 - X5F0110-05	12-Jun-25	
EPA 200.8	Antimony	mg/L	0.0275	<0.00100	0.0250	110	70 - 130	X524162 - X5F0052-01	16-Jun-25	
EPA 200.8	Antimony	mg/L	0.0276	<0.00100	0.0250	110	70 - 130	X524162 - X5F0110-04	16-Jun-25	
EPA 200.8	Arsenic	mg/L	0.0289	<0.00100	0.0250	115	70 - 130	X524162 - X5F0052-01	16-Jun-25	
EPA 200.8	Arsenic	mg/L	0.0296	<0.00100	0.0250	117	70 - 130	X524162 - X5F0110-04	16-Jun-25	
EPA 200.8	Selenium	mg/L	0.0318	0.00117	0.0250	122	70 - 130	X524162 - X5F0052-01	16-Jun-25	
EPA 200.8	Selenium	mg/L	0.0312	<0.00100	0.0250	121	70 - 130	X524162 - X5F0110-04	16-Jun-25	
EPA 200.8	Thallium	mg/L	0.0274	<0.000200	0.0250	110	70 - 130	X524162 - X5F0052-01	16-Jun-25	
EPA 200.8	Thallium	mg/L	0.0277	<0.000200	0.0250	111	70 - 130	X524162 - X5F0110-04	16-Jun-25	
EPA 200.8	Uranium	mg/L	0.0292	0.000462	0.0250	115	70 - 130	X524162 - X5F0052-01	16-Jun-25	
EPA 200.8	Uranium	mg/L	0.0346	0.00547	0.0250	117	70 - 130	X524162 - X5F0110-04	16-Jun-25	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00213	<0.000200	0.00200	106	70 - 130	X524039 - X5E0472-01	13-Jun-25	
EPA 245.1	Mercury	mg/L	0.00210	<0.000200	0.00200	105	70 - 130	X524039 - X5F0110-01	13-Jun-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.102	<0.0050	0.100	102	79 - 121	X524068 - X5F0112-01	11-Jun-25	
EPA 335.4	Cyanide (total)	mg/L	0.109	<0.0050	0.100	109	90 - 110	X524066 - X5F0110-02	11-Jun-25	
EPA 335.4	Cyanide (total)	mg/L	0.101	<0.0050	0.100	101	90 - 110	X524066 - X5F0110-01	11-Jun-25	
EPA 350.1	Ammonia as N	mg/L	1.01	<0.030	1.00	101	90 - 110	X524009 - X5F0116-03	10-Jun-25	
EPA 350.1	Ammonia as N	mg/L	1.03	<0.030	1.00	103	90 - 110	X524009 - X5F0116-01	10-Jun-25	
OIA 1677	Cyanide (WAD)	mg/L	0.103	<0.0050	0.100	103	82 - 118	X524109 - X5F0052-02	12-Jun-25	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	24.3	20.3	3.00	0.30R>S	90 - 110	X523229 - X5F0089-02	06-Jun-25	M4
EPA 300.0	Chloride	mg/L	66.5	64.0	3.00	0.30R>S	90 - 110	X523229 - X5F0110-02	06-Jun-25	M4
EPA 300.0	Fluoride	mg/L	2.45	0.418	2.00	102	90 - 110	X523229 - X5F0089-02	06-Jun-25	
EPA 300.0	Fluoride	mg/L	4.06	1.97	2.00	105	90 - 110	X523229 - X5F0110-02	06-Jun-25	
EPA 300.0	Nitrate as N	mg/L	2.11	<0.050	2.00	104	90 - 110	X523229 - X5F0089-02	06-Jun-25	
EPA 300.0	Nitrate as N	mg/L	3.49	1.36	2.00	106	90 - 110	X523229 - X5F0110-02	06-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.18	<0.100	4.00	104	90 - 110	X523229 - X5F0089-02	06-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	5.59	1.36	4.00	106	90 - 110	X523229 - X5F0110-02	06-Jun-25	
EPA 300.0	Nitrite as N	mg/L	2.07	<0.050	2.00	103	90 - 110	X523229 - X5F0089-02	06-Jun-25	
EPA 300.0	Nitrite as N	mg/L	2.11	<0.050	2.00	105	90 - 110	X523229 - X5F0110-02	06-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	108	95.3	10.0	0.30R>S	90 - 110	X523229 - X5F0089-02	06-Jun-25	M4

SVL holds the following certifications:

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

Work order Report Page 9 of 12

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0108**

Reported: 20-Jun-25 13:30

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	75.8	68.5	10.0	0.30R>S	90 - 110	X523229 - X5F0110-02	06-Jun-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
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	mg/L	29.1	29.1	20.0	0.0	20	94	X525112 - X5F0102-01	
EPA 200.7	Magnesium	mg/L	21.1	21.1	20.0	0.0	20	95.1	X525112 - X5F0102-01	
EPA 200.7	Potassium	mg/L	19.6	19.7	20.0	0.0	20	94.2	X525112 - X5F0102-01	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.981	0.976	1.00	0.5	20	98.1	X524077 - X5F0052-03	
EPA 200.7	Barium	mg/L	1.18	1.17	1.00	0.7	20	97.2	X524077 - X5F0052-03	
EPA 200.7	Beryllium	mg/L	0.955	0.955	1.00	0.0	20	95.5	X524077 - X5F0052-03	
EPA 200.7	Boron	mg/L	1.02	1.02	1.00	0.8	20	101	X524077 - X5F0052-03	
EPA 200.7	Cadmium	mg/L	0.946	0.946	1.00	0.0	20	94.6	X524077 - X5F0052-03	
EPA 200.7	Calcium	mg/L	65.6	65.7	20.0	0.2	20	94.2	X524077 - X5F0052-03	
EPA 200.7	Chromium	mg/L	0.962	0.959	1.00	0.4	20	96.2	X524077 - X5F0052-03	
EPA 200.7	Cobalt	mg/L	0.918	0.917	1.00	0.1	20	91.8	X524077 - X5F0052-03	
EPA 200.7	Copper	mg/L	0.938	0.932	1.00	0.6	20	93.8	X524077 - X5F0052-03	
EPA 200.7	Iron	mg/L	11.0	11.0	10.0	0.0	20	97.2	X524077 - X5F0052-03	
EPA 200.7	Lead	mg/L	0.944	0.941	1.00	0.3	20	94.4	X524077 - X5F0052-03	
EPA 200.7	Lithium	mg/L	0.977	0.970	1.00	0.8	20	97.7	X524077 - X5F0052-03	
EPA 200.7	Magnesium	mg/L	41.6	41.6	20.0	0.0	20	100	X524077 - X5F0052-03	
EPA 200.7	Manganese	mg/L	1.18	1.18	1.00	0.0	20	94.6	X524077 - X5F0052-03	
EPA 200.7	Molybdenum	mg/L	0.960	0.958	1.00	0.2	20	96.0	X524077 - X5F0052-03	
EPA 200.7	Nickel	mg/L	0.929	0.926	1.00	0.3	20	92.2	X524077 - X5F0052-03	
EPA 200.7	Potassium	mg/L	20.7	20.7	20.0	0.3	20	98.5	X524077 - X5F0052-03	
EPA 200.7	Silver	mg/L	0.0503	0.0499	0.0500	0.7	20	101	X524077 - X5F0052-03	
EPA 200.7	Sodium	mg/L	28.5	28.4	19.0	0.3	20	96.2	X524077 - X5F0052-03	
EPA 200.7	Vanadium	mg/L	0.980	0.973	1.00	0.6	20	98.0	X524077 - X5F0052-03	
EPA 200.7	Zinc	mg/L	1.03	1.02	1.00	0.2	20	101	X524077 - X5F0052-03	
EPA 200.8	Antimony	mg/L	0.0285	0.0275	0.0250	3.4	20	114	X524162 - X5F0052-01	
EPA 200.8	Arsenic	mg/L	0.0294	0.0289	0.0250	1.7	20	117	X524162 - X5F0052-01	
EPA 200.8	Selenium	mg/L	0.0317	0.0318	0.0250	0.3	20	122	X524162 - X5F0052-01	
EPA 200.8	Thallium	mg/L	0.0272	0.0274	0.0250	0.6	20	109	X524162 - X5F0052-01	
EPA 200.8	Uranium	mg/L	0.0288	0.0292	0.0250	1.3	20	113	X524162 - X5F0052-01	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00208	0.00213	0.00200	2.5	20	104	X524039 - X5E0472-01	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.103	0.102	0.100	1.2	11	103	X524068 - X5F0112-01	
EPA 335.4	Cyanide (total)	mg/L	0.0945	0.109	0.100	14.5	20	94.5	X524066 - X5F0110-02	
EPA 350.1	Ammonia as N	mg/L	1.02	1.01	1.00	0.7	20	102	X524009 - X5F0116-03	
OIA 1677	Cyanide (WAD)	mg/L	0.102	0.103	0.100	0.9	11	102	X524109 - X5F0052-02	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	24.2	24.3	3.00	0.4	20	0.30R>S	X523229 - X5F0089-02	M4
EPA 300.0	Fluoride	mg/L	2.53	2.45	2.00	3.4	20	106	X523229 - X5F0089-02	
EPA 300.0	Nitrate as N	mg/L	2.19	2.11	2.00	3.4	20	107	X523229 - X5F0089-02	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.33	4.18	4.00	3.5	20	108	X523229 - X5F0089-02	
EPA 300.0	Nitrite as N	mg/L	2.14	2.07	2.00	3.6	20	107	X523229 - X5F0089-02	



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Cripple Creek & Victor Gold Mining Company					Project Name: Cripple Creek/Victor Water and Soil 2024				
Ironclad Security 1632 County Rd 82					Work Order: X5F0108				
Cripple Creek, CO 80813					Reported: 20-Jun-25 13:30				

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	110	108	10.0	1.7	20	0.30R>S	X523229 - X5F0089-02	M4



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Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0108**

Reported: 20-Jun-25 13:30

Notes and Definitions

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.
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**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0453**

Reported: 08-Jul-25 15:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
RB-0625	X5F0453-01	Ground Water	25-Jun-25 14:50	TR	26-Jun-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: X5F0453

The state of origin only accredits for drinking water analyses.

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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0453**

Reported: 08-Jul-25 15:52

Client Sample ID: **RB-0625**

Sampled: 25-Jun-25 14:50

Received: 26-Jun-25

Sampled By: TR

SVL Sample ID: **X5F0453-01 (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	0.263	mg/L	0.100	0.069		X527052	MAC	07/02/25 12:23	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X527052	MAC	07/02/25 12:23	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X527052	MAC	07/02/25 12:23	
SM 2340 B	Hardness (as CaCO ₃)	< 2.31	mg/L	2.31	0.543		N/A		06/27/25 11:26	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X526190	NMS	06/27/25 11:26	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X526190	NMS	06/27/25 11:26	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X526190	NMS	06/27/25 11:26	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X526190	NMS	06/27/25 11:26	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X526190	NMS	06/27/25 11:26	
EPA 200.7	Calcium	0.185	mg/L	0.100	0.069		X526190	NMS	06/27/25 11:26	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X526190	NMS	06/27/25 11:26	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X526190	NMS	06/27/25 11:26	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X526190	NMS	06/27/25 11:26	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X526190	NMS	06/27/25 11:26	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X526190	NMS	06/27/25 11:26	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X526190	NMS	06/27/25 11:26	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X526190	NMS	06/27/25 11:26	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X526190	NMS	06/27/25 11:26	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X526190	NMS	06/27/25 11:26	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X526190	NMS	06/27/25 11:26	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X526190	NMS	06/27/25 11:26	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X526190	NMS	06/27/25 11:26	
EPA 200.7	Sodium	0.58	mg/L	0.50	0.12		X526190	NMS	06/27/25 11:26	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X526190	NMS	06/27/25 11:26	
EPA 200.7	Zinc	0.0124	mg/L	0.0100	0.0054		X526190	NMS	06/27/25 11:26	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X527111	NMS	07/08/25 09:28	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X527111	NMS	07/08/25 09:28	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X527111	NMS	07/08/25 09:28	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X527111	NMS	07/08/25 09:28	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X527111	NMS	07/08/25 09:28	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X526187	SJN	07/02/25 15:49	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X527117	JPM	07/03/25 14:39	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X527003	JPM	07/01/25 10:39	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X527062	JPM	07/02/25 13:41	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X527060	JPM	07/02/25 13:59	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO ₃	10.0			X528009	MWD	07/07/25 09:39	
SM 2320 B	Total Alkalinity	10.1	mg/L as CaCO ₃	1.0			X527056	MWD	07/02/25 10:21	
SM 2320 B	Bicarbonate	10.1	mg/L as CaCO ₃	1.0			X527056	MWD	07/02/25 10:21	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X527056	MWD	07/02/25 10:21	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO ₃	1.0			X527056	MWD	07/02/25 10:21	
SM 2540 C	Total Diss. Solids	29	mg/L	10			X526168	AS	06/30/25 04:15	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X526169	AS	06/30/25 01:15	
SM 4500 H B	pH @22.8°C	7.1	pH Units				X527056	MWD	07/02/25 10:21	H5



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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5F0453 Reported: 08-Jul-25 15:52
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Client Sample ID: **RB-0625**
SVL Sample ID: **X5F0453-01 (Ground Water)**

Sampled: 25-Jun-25 14:50
Received: 26-Jun-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		X526167	RS	06/27/25 12:07	
EPA 300.0	Fluoride	0.357	mg/L	0.100	0.017		X526167	RS	06/27/25 12:07	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X526167	RS	06/27/25 12:07	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X526167	RS	06/27/25 12:07	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X526167	RS	06/27/25 12:07	
EPA 300.0	Sulfate as SO4	0.51	mg/L	0.30	0.18		X526167	RS	06/27/25 12:07	

Cation/Anion Balance and TDS Ratios

Cation Sum: 0.06 meq/L	Anion Sum: 0.24 meq/L	C/A Balance: -59.47 %	Calculated TDS: 8	TDS/cTDS: 3.75
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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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Cripple Creek & Victor Gold Mining Company

Ironclad Security 1632 County Rd 82
Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5F0453**
Reported: 08-Jul-25 15:52

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	X527052	02-Jul-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X527052	02-Jul-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X527052	02-Jul-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X526190	27-Jun-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X526190	27-Jun-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X526190	27-Jun-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X526190	27-Jun-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X526190	27-Jun-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X526190	27-Jun-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X526190	27-Jun-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X526190	27-Jun-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X526190	27-Jun-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X526190	27-Jun-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X526190	27-Jun-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X526190	27-Jun-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X526190	27-Jun-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X526190	27-Jun-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X526190	27-Jun-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X526190	27-Jun-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X526190	27-Jun-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X526190	27-Jun-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X526190	27-Jun-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X526190	27-Jun-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X526190	27-Jun-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X527111	08-Jul-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X527111	08-Jul-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X527111	08-Jul-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X527111	08-Jul-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X527111	08-Jul-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X526187	02-Jul-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X527117	03-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X527003	01-Jul-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X527062	02-Jul-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X527060	02-Jul-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X528009	07-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X527056	01-Jul-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X527056	01-Jul-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X527056	01-Jul-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X527056	01-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X526168	30-Jun-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X526169	30-Jun-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X526167	26-Jun-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X526167	26-Jun-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X526167	26-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X526167	26-Jun-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X526167	26-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X526167	26-Jun-25	



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net
Cripple Creek & Victor Gold Mining Company

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5F0453**

Reported: 08-Jul-25 15:52

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	19.5	20.0	98	85 - 115	X527052	02-Jul-25	
EPA 200.7	Magnesium	mg/L	19.6	20.0	98.2	85 - 115	X527052	02-Jul-25	
EPA 200.7	Potassium	mg/L	20.0	20.0	100	85 - 115	X527052	02-Jul-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.00	1.00	100	85 - 115	X526190	27-Jun-25	
EPA 200.7	Barium	mg/L	1.02	1.00	102	85 - 115	X526190	27-Jun-25	
EPA 200.7	Beryllium	mg/L	1.02	1.00	102	85 - 115	X526190	27-Jun-25	
EPA 200.7	Boron	mg/L	1.02	1.00	102	85 - 115	X526190	27-Jun-25	
EPA 200.7	Cadmium	mg/L	1.00	1.00	100	85 - 115	X526190	27-Jun-25	
EPA 200.7	Calcium	mg/L	20.4	20.0	102	85 - 115	X526190	27-Jun-25	
EPA 200.7	Chromium	mg/L	1.03	1.00	103	85 - 115	X526190	27-Jun-25	
EPA 200.7	Cobalt	mg/L	0.987	1.00	98.7	85 - 115	X526190	27-Jun-25	
EPA 200.7	Copper	mg/L	0.997	1.00	99.7	85 - 115	X526190	27-Jun-25	
EPA 200.7	Iron	mg/L	10.2	10.0	102	85 - 115	X526190	27-Jun-25	
EPA 200.7	Lead	mg/L	1.01	1.00	101	85 - 115	X526190	27-Jun-25	
EPA 200.7	Lithium	mg/L	0.995	1.00	99.5	85 - 115	X526190	27-Jun-25	
EPA 200.7	Magnesium	mg/L	19.7	20.0	98.3	85 - 115	X526190	27-Jun-25	
EPA 200.7	Manganese	mg/L	1.03	1.00	103	85 - 115	X526190	27-Jun-25	
EPA 200.7	Molybdenum	mg/L	1.05	1.00	105	85 - 115	X526190	27-Jun-25	
EPA 200.7	Nickel	mg/L	0.993	1.00	99.3	85 - 115	X526190	27-Jun-25	
EPA 200.7	Potassium	mg/L	20.5	20.0	102	85 - 115	X526190	27-Jun-25	
EPA 200.7	Silver	mg/L	0.0499	0.0500	99.9	85 - 115	X526190	27-Jun-25	
EPA 200.7	Sodium	mg/L	19.5	19.0	103	85 - 115	X526190	27-Jun-25	
EPA 200.7	Vanadium	mg/L	1.03	1.00	103	85 - 115	X526190	27-Jun-25	
EPA 200.7	Zinc	mg/L	0.993	1.00	99.3	85 - 115	X526190	27-Jun-25	
EPA 200.8	Antimony	mg/L	0.0268	0.0250	107	85 - 115	X527111	08-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0264	0.0250	105	85 - 115	X527111	08-Jul-25	
EPA 200.8	Selenium	mg/L	0.0248	0.0250	99.1	85 - 115	X527111	08-Jul-25	
EPA 200.8	Thallium	mg/L	0.0273	0.0250	109	85 - 115	X527111	08-Jul-25	
EPA 200.8	Uranium	mg/L	0.0281	0.0250	112	85 - 115	X527111	08-Jul-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00202	0.00200	101	85 - 115	X526187	02-Jul-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0937	0.100	93.7	90 - 110	X527117	03-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X527003	01-Jul-25	
EPA 350.1	Ammonia as N	mg/L	0.987	1.00	98.7	90 - 110	X527062	02-Jul-25	
OIA 1677	Cyanide (WAD)	mg/L	0.0997	0.100	99.7	90 - 110	X527060	02-Jul-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1200	1180	101	95.4 - 104	X528009	07-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.90	9.93	99.7	94 - 106	X527056	01-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	96.7	99.3	97.4	94 - 106	X527056	02-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	402	397	101	94 - 106	X527056	02-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	243	250	97.2	85 - 115	X526168	30-Jun-25	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X526169	30-Jun-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.03	3.00	101	90 - 110	X526167	26-Jun-25	
EPA 300.0	Fluoride	mg/L	2.05	2.00	103	90 - 110	X526167	26-Jun-25	
EPA 300.0	Nitrate as N	mg/L	2.02	2.00	101	90 - 110	X526167	26-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.64	4.50	103	90 - 110	X526167	26-Jun-25	
EPA 300.0	Nitrite as N	mg/L	2.62	2.50	105	90 - 110	X526167	26-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	10.0	10.0	100	90 - 110	X526167	26-Jun-25	

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0453**

Reported: 08-Jul-25 15:52

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	21700	21700	0.0	20	X528009 - X5F0376-01	07-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X527056 - X5F0376-02	02-Jul-25	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X527056 - X5F0376-02	02-Jul-25	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X527056 - X5F0376-02	02-Jul-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X527056 - X5F0376-02	02-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	627	351	56.4	10	X526168 - X5F0450-03	30-Jun-25	R2B
SM 2540 C	Total Diss. Solids	mg/L	997	973	2.4	10	X526168 - X5F0449-02	30-Jun-25	
SM 2540 D	Total Susp. Solids	mg/L	6.0	6.0	0.0	10	X526169 - X5F0449-02	30-Jun-25	
SM 4500 H B	pH @21.4°C	pH Units	4.3	4.6	7.5	20	X527056 - X5F0376-02	02-Jul-25	R2B

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	386	376	20.0	0.30R>S	70 - 130	X527052 - X5F0405-01	02-Jul-25	M3
EPA 200.7	Calcium	mg/L	465	437	20.0	0.30R>S	70 - 130	X527052 - X5F0451-02	02-Jul-25	M4
EPA 200.7	Magnesium	mg/L	51.0	32.3	20.0	93.8	70 - 130	X527052 - X5F0405-01	02-Jul-25	
EPA 200.7	Magnesium	mg/L	152	128	20.0	121	70 - 130	X527052 - X5F0451-02	02-Jul-25	
EPA 200.7	Potassium	mg/L	30.0	10.1	20.0	99.2	70 - 130	X527052 - X5F0405-01	02-Jul-25	
EPA 200.7	Potassium	mg/L	25.2	3.98	20.0	106	70 - 130	X527052 - X5F0451-02	02-Jul-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.974	<0.080	1.00	97.4	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Aluminum	mg/L	8.50	7.40	1.00	110	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Barium	mg/L	0.981	0.0101	1.00	97.1	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Barium	mg/L	1.02	0.0100	1.00	101	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Beryllium	mg/L	1.00	<0.00200	1.00	100	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Beryllium	mg/L	1.03	<0.00200	1.00	103	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Boron	mg/L	0.991	<0.0400	1.00	99.1	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Boron	mg/L	1.04	<0.0400	1.00	104	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Cadmium	mg/L	0.992	<0.0020	1.00	99.2	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Cadmium	mg/L	1.06	0.0448	1.00	102	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Calcium	mg/L	34.6	15.3	20.0	96.3	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Calcium	mg/L	147	128	20.0	96.9	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Chromium	mg/L	1.00	<0.0060	1.00	100	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Chromium	mg/L	1.04	0.0133	1.00	103	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Cobalt	mg/L	0.965	<0.0060	1.00	96.5	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Cobalt	mg/L	1.04	0.0523	1.00	98.5	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Copper	mg/L	0.954	<0.0100	1.00	95.4	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Copper	mg/L	1.50	0.449	1.00	106	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Iron	mg/L	9.87	<0.100	10.0	98.7	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Iron	mg/L	73.6	63.8	10.0	97.6	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Lead	mg/L	1.00	<0.0075	1.00	100	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Lead	mg/L	1.03	<0.0075	1.00	103	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Lithium	mg/L	0.954	<0.040	1.00	95.4	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Lithium	mg/L	1.08	0.046	1.00	104	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Magnesium	mg/L	19.5	<0.500	20.0	97.4	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Magnesium	mg/L	25.6	5.38	20.0	101	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Manganese	mg/L	1.01	<0.0080	1.00	101	70 - 130	X526190 - X5F0418-01	27-Jun-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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0453**

Reported: 08-Jul-25 15:52

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	3.56	2.55	1.00	102	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Molybdenum	mg/L	1.02	<0.0080	1.00	102	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Molybdenum	mg/L	1.03	<0.0080	1.00	103	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Nickel	mg/L	0.975	<0.0100	1.00	97.5	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Nickel	mg/L	1.39	0.392	1.00	100	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Potassium	mg/L	19.9	<0.50	20.0	99.6	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Potassium	mg/L	21.0	<0.50	20.0	104	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Silver	mg/L	0.0482	<0.0050	0.0500	96.4	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Silver	mg/L	0.0512	<0.0050	0.0500	102	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Sodium	mg/L	19.2	<0.50	19.0	99.4	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Sodium	mg/L	21.2	1.18	19.0	105	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Vanadium	mg/L	1.01	<0.0050	1.00	101	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Vanadium	mg/L	1.04	0.0089	1.00	104	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.7	Zinc	mg/L	0.991	<0.0100	1.00	99.1	70 - 130	X526190 - X5F0418-01	27-Jun-25	
EPA 200.7	Zinc	mg/L	3.69	2.68	1.00	101	70 - 130	X526190 - X5F0418-04	27-Jun-25	
EPA 200.8	Antimony	mg/L	0.0248	<0.00100	0.0250	99.3	70 - 130	X527111 - X5F0463-01	08-Jul-25	
EPA 200.8	Antimony	mg/L	0.0257	<0.00100	0.0250	103	70 - 130	X527111 - X5F0476-01	08-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0270	<0.00100	0.0250	106	70 - 130	X527111 - X5F0463-01	08-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0258	<0.00100	0.0250	103	70 - 130	X527111 - X5F0476-01	08-Jul-25	
EPA 200.8	Selenium	mg/L	0.0333	0.00737	0.0250	104	70 - 130	X527111 - X5F0463-01	08-Jul-25	
EPA 200.8	Selenium	mg/L	0.0276	<0.00100	0.0250	110	70 - 130	X527111 - X5F0476-01	08-Jul-25	
EPA 200.8	Thallium	mg/L	0.0247	<0.000200	0.0250	98.8	70 - 130	X527111 - X5F0463-01	08-Jul-25	
EPA 200.8	Thallium	mg/L	0.0236	<0.000200	0.0250	94.3	70 - 130	X527111 - X5F0476-01	08-Jul-25	
EPA 200.8	Uranium	mg/L	0.0314	0.00351	0.0250	112	70 - 130	X527111 - X5F0463-01	08-Jul-25	
EPA 200.8	Uranium	mg/L	0.0259	0.000198	0.0250	103	70 - 130	X527111 - X5F0476-01	08-Jul-25	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00216	<0.000200	0.00200	103	70 - 130	X526187 - X5F0449-02	02-Jul-25	
EPA 245.1	Mercury	mg/L	0.00204	<0.000200	0.00200	102	70 - 130	X526187 - X5F0478-01	02-Jul-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0855	<0.0050	0.100	85.5	79 - 121	X527117 - X5F0451-01	03-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	0.0138	<0.0050	0.100	13.8	90 - 110	X527003 - X5F0410-01	01-Jul-25	M2,R2B
EPA 335.4	Cyanide (total)	mg/L	0.0545	<0.0050	0.100	54.5	90 - 110	X527003 - X5F0376-02	01-Jul-25	M2
EPA 350.1	Ammonia as N	mg/L	1.03	<0.030	1.00	103	90 - 110	X527062 - X5F0451-01	02-Jul-25	
EPA 350.1	Ammonia as N	mg/L	1.03	<0.030	1.00	103	90 - 110	X527062 - X5F0450-02	02-Jul-25	
OIA 1677	Cyanide (WAD)	mg/L	0.141	<0.0050	0.100	141	82 - 118	X527060 - X5F0451-02	02-Jul-25	M1
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	2.99	<0.20	3.00	97.6	90 - 110	X526167 - X5F0450-08	26-Jun-25	
EPA 300.0	Chloride	mg/L	3.12	<0.20	3.00	99.5	90 - 110	X526167 - X5F0453-01	27-Jun-25	
EPA 300.0	Fluoride	mg/L	2.02	<0.100	2.00	101	90 - 110	X526167 - X5F0450-08	26-Jun-25	
EPA 300.0	Fluoride	mg/L	2.42	0.357	2.00	103	90 - 110	X526167 - X5F0453-01	27-Jun-25	
EPA 300.0	Nitrate as N	mg/L	1.99	<0.050	2.00	99.4	90 - 110	X526167 - X5F0450-08	26-Jun-25	
EPA 300.0	Nitrate as N	mg/L	2.01	<0.050	2.00	100	90 - 110	X526167 - X5F0453-01	27-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.03	<0.100	4.00	101	90 - 110	X526167 - X5F0450-08	26-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.05	<0.100	4.00	101	90 - 110	X526167 - X5F0453-01	27-Jun-25	
EPA 300.0	Nitrite as N	mg/L	2.04	<0.050	2.00	102	90 - 110	X526167 - X5F0450-08	26-Jun-25	
EPA 300.0	Nitrite as N	mg/L	2.04	<0.050	2.00	102	90 - 110	X526167 - X5F0453-01	27-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	9.85	<0.30	10.0	98.5	90 - 110	X526167 - X5F0450-08	26-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	10.4	0.51	10.0	99.4	90 - 110	X526167 - X5F0453-01	27-Jun-25	

SVL holds the following certifications:

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

Work order Report Page 7 of 9

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0453**

Reported: 08-Jul-25 15:52

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	388	386	20.0	0.6	20	0.30R>S	X527052 - X5F0405-01	M3
EPA 200.7	Magnesium	mg/L	51.7	51.0	20.0	1.4	20	97.3	X527052 - X5F0405-01	
EPA 200.7	Potassium	mg/L	30.1	30.0	20.0	0.6	20	100	X527052 - X5F0405-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	0.974	1.00	3.5	20	101	X526190 - X5F0418-01	
EPA 200.7	Barium	mg/L	1.03	0.981	1.00	4.9	20	102	X526190 - X5F0418-01	
EPA 200.7	Beryllium	mg/L	1.01	1.00	1.00	1.0	20	101	X526190 - X5F0418-01	
EPA 200.7	Boron	mg/L	1.02	0.991	1.00	2.5	20	102	X526190 - X5F0418-01	
EPA 200.7	Cadmium	mg/L	0.992	0.992	1.00	0.0	20	99.2	X526190 - X5F0418-01	
EPA 200.7	Calcium	mg/L	35.0	34.6	20.0	1.1	20	98.3	X526190 - X5F0418-01	
EPA 200.7	Chromium	mg/L	1.01	1.00	1.00	1.1	20	101	X526190 - X5F0418-01	
EPA 200.7	Cobalt	mg/L	0.964	0.965	1.00	0.1	20	96.4	X526190 - X5F0418-01	
EPA 200.7	Copper	mg/L	0.965	0.954	1.00	1.1	20	96.5	X526190 - X5F0418-01	
EPA 200.7	Iron	mg/L	10.0	9.87	10.0	1.5	20	100	X526190 - X5F0418-01	
EPA 200.7	Lead	mg/L	1.00	1.00	1.00	0.2	20	100	X526190 - X5F0418-01	
EPA 200.7	Lithium	mg/L	0.985	0.954	1.00	3.3	20	98.5	X526190 - X5F0418-01	
EPA 200.7	Magnesium	mg/L	19.5	19.5	20.0	0.2	20	97.6	X526190 - X5F0418-01	
EPA 200.7	Manganese	mg/L	1.02	1.01	1.00	1.5	20	102	X526190 - X5F0418-01	
EPA 200.7	Molybdenum	mg/L	1.03	1.02	1.00	0.3	20	103	X526190 - X5F0418-01	
EPA 200.7	Nickel	mg/L	0.975	0.975	1.00	0.1	20	97.5	X526190 - X5F0418-01	
EPA 200.7	Potassium	mg/L	20.1	19.9	20.0	0.8	20	100	X526190 - X5F0418-01	
EPA 200.7	Silver	mg/L	0.0501	0.0482	0.0500	3.9	20	100	X526190 - X5F0418-01	
EPA 200.7	Sodium	mg/L	19.4	19.2	19.0	1.0	20	100	X526190 - X5F0418-01	
EPA 200.7	Vanadium	mg/L	1.03	1.01	1.00	1.6	20	103	X526190 - X5F0418-01	
EPA 200.7	Zinc	mg/L	0.993	0.991	1.00	0.2	20	99.3	X526190 - X5F0418-01	
EPA 200.8	Antimony	mg/L	0.0259	0.0257	0.0250	1.0	20	104	X527111 - X5F0476-01	
EPA 200.8	Arsenic	mg/L	0.0257	0.0258	0.0250	0.3	20	103	X527111 - X5F0476-01	
EPA 200.8	Selenium	mg/L	0.0273	0.0276	0.0250	0.9	20	109	X527111 - X5F0476-01	
EPA 200.8	Thallium	mg/L	0.0237	0.0236	0.0250	0.6	20	94.9	X527111 - X5F0476-01	
EPA 200.8	Uranium	mg/L	0.0257	0.0259	0.0250	0.6	20	102	X527111 - X5F0476-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00219	0.00216	0.00200	1.5	20	104	X526187 - X5F0449-02	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0911	0.0855	0.100	6.3	11	91.1	X527117 - X5F0451-01	
EPA 335.4	Cyanide (total)	mg/L	0.0525	0.0138	0.100	117.0	20	52.5	X527003 - X5F0410-01	M2,R2B
EPA 350.1	Ammonia as N	mg/L	1.05	1.03	1.00	1.9	20	105	X527062 - X5F0451-01	
OIA 1677	Cyanide (WAD)	mg/L	0.132	0.141	0.100	6.9	11	132	X527060 - X5F0451-02	M1
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.03	2.99	3.00	1.3	20	98.9	X526167 - X5F0450-08	
EPA 300.0	Fluoride	mg/L	2.04	2.02	2.00	1.4	20	102	X526167 - X5F0450-08	
EPA 300.0	Nitrate as N	mg/L	2.02	1.99	2.00	1.5	20	101	X526167 - X5F0450-08	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.08	4.03	4.00	1.2	20	102	X526167 - X5F0450-08	
EPA 300.0	Nitrite as N	mg/L	2.06	2.04	2.00	0.9	20	103	X526167 - X5F0450-08	
EPA 300.0	Sulfate as SO4	mg/L	10.0	9.85	10.0	1.9	20	100	X526167 - X5F0450-08	



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Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0453**

Reported: 08-Jul-25 15:52

Notes and Definitions

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.
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



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www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0476**

Reported: 11-Jul-25 12:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
RB-0626	X5F0476-01	Ground Water	26-Jun-25 15:10	JC	27-Jun-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: X5F0476

The state of origin only accredits for drinking water analyses.

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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0476**

Reported: 11-Jul-25 12:11

Client Sample ID: **RB-0626**

Sampled: 26-Jun-25 15:10

Received: 27-Jun-25

Sampled By: JC

SVL Sample ID: **X5F0476-01 (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	1.27	mg/L	0.100	0.069		X528023	MAC	07/08/25 15:36	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X528023	MAC	07/08/25 15:36	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X528023	MAC	07/08/25 15:36	
SM 2340 B	Hardness (as CaCO3)	3.17	mg/L	2.31	0.543		N/A		07/11/25 07:11	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X527018	JRR	07/11/25 07:11	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X527018	JRR	07/11/25 07:11	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X527018	JRR	07/11/25 07:11	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X527018	JRR	07/11/25 07:11	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X527018	JRR	07/11/25 07:11	
EPA 200.7	Calcium	1.07	mg/L	0.100	0.069		X527018	JRR	07/11/25 07:11	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X527018	JRR	07/11/25 07:11	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X527018	JRR	07/11/25 11:04	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X527018	JRR	07/11/25 07:11	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X527018	JRR	07/11/25 07:11	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X527018	JRR	07/11/25 07:11	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X527018	JRR	07/11/25 07:11	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X527018	JRR	07/11/25 07:11	
EPA 200.7	Manganese	0.0147	mg/L	0.0080	0.0034		X527018	JRR	07/11/25 07:11	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X527018	JRR	07/11/25 07:11	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X527018	JRR	07/11/25 11:04	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X527018	JRR	07/11/25 07:11	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X527018	JRR	07/11/25 07:11	
EPA 200.7	Sodium	0.91	mg/L	0.50	0.12		X527018	JRR	07/11/25 07:11	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X527018	JRR	07/11/25 07:11	
EPA 200.7	Zinc	0.0189	mg/L	0.0100	0.0054		X527018	JRR	07/11/25 07:11	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X527111	NMS	07/08/25 09:47	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X527111	NMS	07/08/25 09:47	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X527111	NMS	07/08/25 09:47	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X527111	NMS	07/08/25 09:47	
EPA 200.8	Uranium	0.000198	mg/L	0.000100	0.000052		X527111	NMS	07/08/25 09:47	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X526187	SJN	07/02/25 16:00	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X527117	JPM	07/03/25 14:48	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X527003	JPM	07/01/25 10:51	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X527063	JPM	07/02/25 14:21	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X527060	JPM	07/02/25 14:17	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X528010	MWD	07/07/25 09:44	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X527130	MWD	07/03/25 11:43	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X527130	MWD	07/03/25 11:43	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X527130	MWD	07/03/25 11:43	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X527130	MWD	07/03/25 11:43	
SM 2540 C	Total Diss. Solids	41	mg/L	10			X527013	TJL	07/01/25 12:10	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X527014	TJL	07/01/25 12:20	
SM 4500 H B	pH @21.9°C	4.8	pH Units				X527130	MWD	07/03/25 11:43	H5



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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5F0476 Reported: 11-Jul-25 12:11
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Client Sample ID: **RB-0626**
SVL Sample ID: **X5F0476-01 (Ground Water)**

Sampled: 26-Jun-25 15:10
Received: 27-Jun-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	0.75	mg/L	0.20	0.02		X526197	RS	06/27/25 22:39	
EPA 300.0	Fluoride	0.530	mg/L	0.100	0.017		X526197	RS	06/27/25 22:39	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X526197	RS	06/27/25 22:39	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X526197	RS	06/27/25 22:39	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X526197	RS	06/27/25 22:39	
EPA 300.0	Sulfate as SO4	3.19	mg/L	0.30	0.18		X526197	RS	06/27/25 22:39	

Cation/Anion Balance and TDS Ratios										
Cation Sum: 0.12 meq/L		Anion Sum: 0.14 meq/L		C/A Balance: -7.72 %		Calculated TDS: 7		TDS/cTDS: 6.26		

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

Kristi A. Groth

Kristi A. Groth
Project Manager

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0476**

Reported: 11-Jul-25 12:11

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	X528023	08-Jul-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X528023	08-Jul-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X528023	08-Jul-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X527018	11-Jul-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X527018	11-Jul-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X527018	11-Jul-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X527018	11-Jul-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X527018	11-Jul-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X527018	11-Jul-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X527018	11-Jul-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X527018	11-Jul-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X527018	11-Jul-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X527018	11-Jul-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X527018	11-Jul-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X527018	11-Jul-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X527018	11-Jul-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X527018	11-Jul-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X527018	11-Jul-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X527018	11-Jul-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X527018	11-Jul-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X527018	11-Jul-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X527018	11-Jul-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X527018	11-Jul-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X527018	11-Jul-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X527111	08-Jul-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X527111	08-Jul-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X527111	08-Jul-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X527111	08-Jul-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X527111	08-Jul-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X526187	02-Jul-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X527117	03-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X527003	01-Jul-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X527063	02-Jul-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X527060	02-Jul-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X528010	07-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X527130	03-Jul-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X527130	03-Jul-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X527130	03-Jul-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X527130	03-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X527013	01-Jul-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X527014	01-Jul-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X526197	27-Jun-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X526197	27-Jun-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X526197	27-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X526197	27-Jun-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X526197	27-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X526197	27-Jun-25	

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0476**

Reported: 11-Jul-25 12:11

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	19.5	20.0	98	85 - 115	X528023	08-Jul-25	
EPA 200.7	Magnesium	mg/L	19.1	20.0	95.6	85 - 115	X528023	08-Jul-25	
EPA 200.7	Potassium	mg/L	19.5	20.0	97.4	85 - 115	X528023	08-Jul-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.939	1.00	93.9	85 - 115	X527018	11-Jul-25	
EPA 200.7	Barium	mg/L	0.990	1.00	99.0	85 - 115	X527018	11-Jul-25	
EPA 200.7	Beryllium	mg/L	0.979	1.00	97.9	85 - 115	X527018	11-Jul-25	
EPA 200.7	Boron	mg/L	0.989	1.00	98.9	85 - 115	X527018	11-Jul-25	
EPA 200.7	Cadmium	mg/L	0.945	1.00	94.5	85 - 115	X527018	11-Jul-25	
EPA 200.7	Calcium	mg/L	19.3	20.0	96.7	85 - 115	X527018	11-Jul-25	
EPA 200.7	Chromium	mg/L	0.983	1.00	98.3	85 - 115	X527018	11-Jul-25	
EPA 200.7	Cobalt	mg/L	0.954	1.00	95.4	85 - 115	X527018	11-Jul-25	
EPA 200.7	Copper	mg/L	0.937	1.00	93.7	85 - 115	X527018	11-Jul-25	
EPA 200.7	Iron	mg/L	9.77	10.0	97.7	85 - 115	X527018	11-Jul-25	
EPA 200.7	Lead	mg/L	0.949	1.00	94.9	85 - 115	X527018	11-Jul-25	
EPA 200.7	Lithium	mg/L	0.936	1.00	93.6	85 - 115	X527018	11-Jul-25	
EPA 200.7	Magnesium	mg/L	19.3	20.0	96.4	85 - 115	X527018	11-Jul-25	
EPA 200.7	Manganese	mg/L	0.983	1.00	98.3	85 - 115	X527018	11-Jul-25	
EPA 200.7	Molybdenum	mg/L	0.996	1.00	99.6	85 - 115	X527018	11-Jul-25	
EPA 200.7	Nickel	mg/L	0.949	1.00	94.9	85 - 115	X527018	11-Jul-25	
EPA 200.7	Potassium	mg/L	20.3	20.0	101	85 - 115	X527018	11-Jul-25	
EPA 200.7	Silver	mg/L	0.0505	0.0500	101	85 - 115	X527018	11-Jul-25	
EPA 200.7	Sodium	mg/L	18.5	19.0	97.3	85 - 115	X527018	11-Jul-25	
EPA 200.7	Vanadium	mg/L	0.998	1.00	99.8	85 - 115	X527018	11-Jul-25	
EPA 200.7	Zinc	mg/L	0.990	1.00	99.0	85 - 115	X527018	11-Jul-25	
EPA 200.8	Antimony	mg/L	0.0268	0.0250	107	85 - 115	X527111	08-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0264	0.0250	105	85 - 115	X527111	08-Jul-25	
EPA 200.8	Selenium	mg/L	0.0248	0.0250	99.1	85 - 115	X527111	08-Jul-25	
EPA 200.8	Thallium	mg/L	0.0273	0.0250	109	85 - 115	X527111	08-Jul-25	
EPA 200.8	Uranium	mg/L	0.0281	0.0250	112	85 - 115	X527111	08-Jul-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00202	0.00200	101	85 - 115	X526187	02-Jul-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0937	0.100	93.7	90 - 110	X527117	03-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X527003	01-Jul-25	
EPA 350.1	Ammonia as N	mg/L	0.992	1.00	99.2	90 - 110	X527063	02-Jul-25	
OIA 1677	Cyanide (WAD)	mg/L	0.0997	0.100	99.7	90 - 110	X527060	02-Jul-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1200	1180	101	95.4 - 104	X528010	07-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.90	9.93	99.7	94 - 106	X527130	03-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	98.7	99.3	99.4	94 - 106	X527130	03-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	404	397	102	94 - 106	X527130	03-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	226	250	90.4	85 - 115	X527013	01-Jul-25	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X527014	01-Jul-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.02	3.00	101	90 - 110	X526197	27-Jun-25	
EPA 300.0	Fluoride	mg/L	1.98	2.00	98.9	90 - 110	X526197	27-Jun-25	
EPA 300.0	Nitrate as N	mg/L	1.98	2.00	98.8	90 - 110	X526197	27-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.48	4.50	99.5	90 - 110	X526197	27-Jun-25	
EPA 300.0	Nitrite as N	mg/L	2.50	2.50	100	90 - 110	X526197	27-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	9.47	10.0	94.7	90 - 110	X526197	27-Jun-25	

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0476**

Reported: 11-Jul-25 12:11

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	X528010 - X5F0454-01	07-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	109	110	1.3	20	X527130 - X5F0472-01	03-Jul-25	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	109	110	1.3	20	X527130 - X5F0472-01	03-Jul-25	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X527130 - X5F0472-01	03-Jul-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X527130 - X5F0472-01	03-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	515	505	2.0	10	X527013 - X5F0472-02	01-Jul-25	
SM 2540 D	Total Susp. Solids	mg/L	5.0	5.0	0.0	10	X527014 - X5F0472-02	01-Jul-25	
SM 4500 H B	pH @19.3°C	pH Units	7.7	7.9	1.7	20	X527130 - X5F0472-01	03-Jul-25	R2

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	53.7	34.1	20.0	98	70 - 130	X528023 - X5F0472-01	08-Jul-25	
EPA 200.7	Calcium	mg/L	81.6	62.6	20.0	95	70 - 130	X528023 - X5F0478-02	08-Jul-25	
EPA 200.7	Magnesium	mg/L	27.2	7.35	20.0	99.0	70 - 130	X528023 - X5F0472-01	08-Jul-25	
EPA 200.7	Magnesium	mg/L	34.5	14.0	20.0	103	70 - 130	X528023 - X5F0478-02	08-Jul-25	
EPA 200.7	Potassium	mg/L	21.6	2.15	20.0	97.5	70 - 130	X528023 - X5F0472-01	08-Jul-25	
EPA 200.7	Potassium	mg/L	28.6	8.97	20.0	98.2	70 - 130	X528023 - X5F0478-02	08-Jul-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.810	<0.080	1.00	81.0	70 - 130	X527018 - X5F0472-01	11-Jul-25	
EPA 200.7	Barium	mg/L	0.903	0.0260	1.00	87.7	70 - 130	X527018 - X5F0472-01	11-Jul-25	
EPA 200.7	Beryllium	mg/L	0.855	<0.00200	1.00	85.5	70 - 130	X527018 - X5F0472-01	11-Jul-25	
EPA 200.7	Boron	mg/L	0.912	<0.0400	1.00	88.8	70 - 130	X527018 - X5F0472-01	11-Jul-25	
EPA 200.7	Cadmium	mg/L	0.820	<0.0020	1.00	82.0	70 - 130	X527018 - X5F0472-01	11-Jul-25	
EPA 200.7	Calcium	mg/L	47.3	30.2	20.0	85.7	70 - 130	X527018 - X5F0472-01	11-Jul-25	
EPA 200.7	Chromium	mg/L	0.863	<0.0060	1.00	86.3	70 - 130	X527018 - X5F0472-01	11-Jul-25	
EPA 200.7	Cobalt	mg/L	0.928	<0.0060	1.00	92.8	70 - 130	X527018 - X5F0472-01	11-Jul-25	
EPA 200.7	Copper	mg/L	0.824	<0.0100	1.00	82.4	70 - 130	X527018 - X5F0472-01	11-Jul-25	
EPA 200.7	Iron	mg/L	8.64	<0.100	10.0	86.4	70 - 130	X527018 - X5F0472-01	11-Jul-25	
EPA 200.7	Lead	mg/L	0.822	<0.0075	1.00	82.2	70 - 130	X527018 - X5F0472-01	11-Jul-25	
EPA 200.7	Lithium	mg/L	0.860	<0.040	1.00	86.0	70 - 130	X527018 - X5F0472-01	11-Jul-25	
EPA 200.7	Magnesium	mg/L	24.2	6.63	20.0	87.6	70 - 130	X527018 - X5F0472-01	11-Jul-25	
EPA 200.7	Manganese	mg/L	0.872	0.0179	1.00	85.4	70 - 130	X527018 - X5F0472-01	11-Jul-25	
EPA 200.7	Molybdenum	mg/L	0.863	<0.0080	1.00	86.3	70 - 130	X527018 - X5F0472-01	11-Jul-25	
EPA 200.7	Nickel	mg/L	0.914	<0.0100	1.00	91.4	70 - 130	X527018 - X5F0472-01	11-Jul-25	
EPA 200.7	Potassium	mg/L	19.9	1.89	20.0	89.8	70 - 130	X527018 - X5F0472-01	11-Jul-25	
EPA 200.7	Silver	mg/L	0.0444	<0.0050	0.0500	88.9	70 - 130	X527018 - X5F0472-01	11-Jul-25	
EPA 200.7	Sodium	mg/L	32.7	16.4	19.0	85.5	70 - 130	X527018 - X5F0472-01	11-Jul-25	
EPA 200.7	Vanadium	mg/L	0.874	<0.0050	1.00	87.4	70 - 130	X527018 - X5F0472-01	11-Jul-25	
EPA 200.7	Zinc	mg/L	0.884	<0.0100	1.00	87.4	70 - 130	X527018 - X5F0472-01	11-Jul-25	
EPA 200.8	Antimony	mg/L	0.0248	<0.00100	0.0250	99.3	70 - 130	X527111 - X5F0463-01	08-Jul-25	
EPA 200.8	Antimony	mg/L	0.0257	<0.00100	0.0250	103	70 - 130	X527111 - X5F0476-01	08-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0270	<0.00100	0.0250	106	70 - 130	X527111 - X5F0463-01	08-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0258	<0.00100	0.0250	103	70 - 130	X527111 - X5F0476-01	08-Jul-25	
EPA 200.8	Selenium	mg/L	0.0333	0.00737	0.0250	104	70 - 130	X527111 - X5F0463-01	08-Jul-25	
EPA 200.8	Selenium	mg/L	0.0276	<0.00100	0.0250	110	70 - 130	X527111 - X5F0476-01	08-Jul-25	
EPA 200.8	Thallium	mg/L	0.0247	<0.000200	0.0250	98.8	70 - 130	X527111 - X5F0463-01	08-Jul-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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0476**

Reported: 11-Jul-25 12:11

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 200.8	Thallium	mg/L	0.0236	<0.000200	0.0250	94.3	70 - 130	X527111 - X5F0476-01	08-Jul-25	
EPA 200.8	Uranium	mg/L	0.0314	0.00351	0.0250	112	70 - 130	X527111 - X5F0463-01	08-Jul-25	
EPA 200.8	Uranium	mg/L	0.0259	0.000198	0.0250	103	70 - 130	X527111 - X5F0476-01	08-Jul-25	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00216	<0.000200	0.00200	103	70 - 130	X526187 - X5F0449-02	02-Jul-25	
EPA 245.1	Mercury	mg/L	0.00204	<0.000200	0.00200	102	70 - 130	X526187 - X5F0478-01	02-Jul-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0855	<0.0050	0.100	85.5	79 - 121	X527117 - X5F0451-01	03-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	0.0138	<0.0050	0.100	13.8	90 - 110	X527003 - X5F0410-01	01-Jul-25	M2,R2B
EPA 335.4	Cyanide (total)	mg/L	0.0545	<0.0050	0.100	54.5	90 - 110	X527003 - X5F0376-02	01-Jul-25	M2
EPA 350.1	Ammonia as N	mg/L	1.03	<0.030	1.00	101	90 - 110	X527063 - X5F0476-01	02-Jul-25	
OIA 1677	Cyanide (WAD)	mg/L	0.141	<0.0050	0.100	141	82 - 118	X527060 - X5F0451-02	02-Jul-25	M1
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	25.1	22.5	3.00	0.30R>S	90 - 110	X526197 - X5F0472-01	27-Jun-25	M4
EPA 300.0	Chloride	mg/L	3.72	0.75	3.00	98.9	90 - 110	X526197 - X5F0476-01	27-Jun-25	
EPA 300.0	Fluoride	mg/L	4.17	2.28	2.00	94.7	90 - 110	X526197 - X5F0472-01	27-Jun-25	
EPA 300.0	Fluoride	mg/L	2.51	0.530	2.00	99.1	90 - 110	X526197 - X5F0476-01	27-Jun-25	
EPA 300.0	Nitrate as N	mg/L	2.16	0.235	2.00	96.0	90 - 110	X526197 - X5F0472-01	27-Jun-25	
EPA 300.0	Nitrate as N	mg/L	1.99	<0.050	2.00	97.8	90 - 110	X526197 - X5F0476-01	27-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.13	0.235	4.00	97.3	90 - 110	X526197 - X5F0472-01	27-Jun-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.02	<0.100	4.00	101	90 - 110	X526197 - X5F0476-01	27-Jun-25	
EPA 300.0	Nitrite as N	mg/L	1.97	<0.050	2.00	98.5	90 - 110	X526197 - X5F0472-01	27-Jun-25	
EPA 300.0	Nitrite as N	mg/L	2.04	<0.050	2.00	102	90 - 110	X526197 - X5F0476-01	27-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	25.0	15.6	10.0	93.2	90 - 110	X526197 - X5F0472-01	27-Jun-25	
EPA 300.0	Sulfate as SO4	mg/L	12.7	3.19	10.0	94.9	90 - 110	X526197 - X5F0476-01	27-Jun-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
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	53.3	53.7	20.0	0.8	20	96	X528023 - X5F0472-01	
EPA 200.7	Magnesium	mg/L	26.8	27.2	20.0	1.3	20	97.3	X528023 - X5F0472-01	
EPA 200.7	Potassium	mg/L	21.5	21.6	20.0	0.4	20	97.0	X528023 - X5F0472-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.833	0.810	1.00	2.8	20	83.3	X527018 - X5F0472-01	
EPA 200.7	Barium	mg/L	0.892	0.903	1.00	1.2	20	86.6	X527018 - X5F0472-01	
EPA 200.7	Beryllium	mg/L	0.877	0.855	1.00	2.6	20	87.7	X527018 - X5F0472-01	
EPA 200.7	Boron	mg/L	0.931	0.912	1.00	2.0	20	90.6	X527018 - X5F0472-01	
EPA 200.7	Cadmium	mg/L	0.844	0.820	1.00	2.8	20	84.4	X527018 - X5F0472-01	
EPA 200.7	Calcium	mg/L	47.3	47.3	20.0	0.0	20	85.7	X527018 - X5F0472-01	
EPA 200.7	Chromium	mg/L	0.882	0.863	1.00	2.3	20	88.2	X527018 - X5F0472-01	
EPA 200.7	Cobalt	mg/L	0.916	0.928	1.00	1.3	20	91.6	X527018 - X5F0472-01	
EPA 200.7	Copper	mg/L	0.835	0.824	1.00	1.3	20	83.5	X527018 - X5F0472-01	
EPA 200.7	Iron	mg/L	8.63	8.64	10.0	0.2	20	86.3	X527018 - X5F0472-01	
EPA 200.7	Lead	mg/L	0.849	0.822	1.00	3.2	20	84.9	X527018 - X5F0472-01	
EPA 200.7	Lithium	mg/L	0.882	0.860	1.00	2.6	20	88.2	X527018 - X5F0472-01	
EPA 200.7	Magnesium	mg/L	24.1	24.2	20.0	0.2	20	87.3	X527018 - X5F0472-01	

SVL holds the following certifications:

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

Work order Report Page 7 of 9



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Cripple Creek & Victor Gold Mining Company

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5F0476**

Reported: 11-Jul-25 12:11

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	Manganese	mg/L	0.891	0.872	1.00	2.1	20	87.3	X527018 - X5F0472-01	
EPA 200.7	Molybdenum	mg/L	0.888	0.863	1.00	2.8	20	88.8	X527018 - X5F0472-01	
EPA 200.7	Nickel	mg/L	0.902	0.914	1.00	1.3	20	90.2	X527018 - X5F0472-01	
EPA 200.7	Potassium	mg/L	19.8	19.9	20.0	0.1	20	89.7	X527018 - X5F0472-01	
EPA 200.7	Silver	mg/L	0.0454	0.0444	0.0500	2.1	20	90.7	X527018 - X5F0472-01	
EPA 200.7	Sodium	mg/L	32.5	32.7	19.0	0.4	20	84.8	X527018 - X5F0472-01	
EPA 200.7	Vanadium	mg/L	0.895	0.874	1.00	2.3	20	89.5	X527018 - X5F0472-01	
EPA 200.7	Zinc	mg/L	0.906	0.884	1.00	2.5	20	89.6	X527018 - X5F0472-01	
EPA 200.8	Antimony	mg/L	0.0259	0.0257	0.0250	1.0	20	104	X527111 - X5F0476-01	
EPA 200.8	Arsenic	mg/L	0.0257	0.0258	0.0250	0.3	20	103	X527111 - X5F0476-01	
EPA 200.8	Selenium	mg/L	0.0273	0.0276	0.0250	0.9	20	109	X527111 - X5F0476-01	
EPA 200.8	Thallium	mg/L	0.0237	0.0236	0.0250	0.6	20	94.9	X527111 - X5F0476-01	
EPA 200.8	Uranium	mg/L	0.0257	0.0259	0.0250	0.6	20	102	X527111 - X5F0476-01	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00219	0.00216	0.00200	1.5	20	104	X526187 - X5F0449-02	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0911	0.0855	0.100	6.3	11	91.1	X527117 - X5F0451-01	
EPA 335.4	Cyanide (total)	mg/L	0.0525	0.0138	0.100	117.0	20	52.5	X527003 - X5F0410-01	M2,R2B
EPA 350.1	Ammonia as N	mg/L	1.05	1.03	1.00	1.5	20	103	X527063 - X5F0476-01	
OIA 1677	Cyanide (WAD)	mg/L	0.132	0.141	0.100	6.9	11	132	X527060 - X5F0451-02	M1

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	24.7	25.1	3.00	1.8	20	0.30R>S	X526197 - X5F0472-01	M4
EPA 300.0	Fluoride	mg/L	4.11	4.17	2.00	1.6	20	91.4	X526197 - X5F0472-01	
EPA 300.0	Nitrate as N	mg/L	2.06	2.16	2.00	4.6	20	91.2	X526197 - X5F0472-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.94	4.13	4.00	4.5	20	92.7	X526197 - X5F0472-01	
EPA 300.0	Nitrite as N	mg/L	1.88	1.97	2.00	4.5	20	94.2	X526197 - X5F0472-01	
EPA 300.0	Sulfate as SO4	mg/L	24.7	25.0	10.0	1.1	20	90.6	X526197 - X5F0472-01	



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www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5F0476**

Reported: 11-Jul-25 12:11

Notes and Definitions

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.
R2	RPD exceeded the laboratory acceptance limit. See case narrative.
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

Surface Waer Calculations

GV-4.5		
Sample Date:		6/30/2025
Data for Calculations:		
pH	6.67	std units
Hardness	145	mg/L
Temperature	13.9	Celsius
Regulation 32 (5 CCR 1002-32) COARUA24 Standards		
Physical	Acute	Chronic
pH (std. units)	6.5 - 9.0	---
Temperature (°C)	< 21.7	< 17
Inorganic	Acute (mg/L)	Chronic (mg/L)
Ammonia	30.23828	6.482
Boron	---	0.750
Chloride	---	250.000
Chlorine	0.019	0.011
Cyanide (Free)	0.005	---
Nitrate	10	---
Nitrite	---	0.050
Sulfide	---	0.002
Sulfate	---	250.000
Phosphorus	---	0.110
Metals	Acute (mg/L)	Chronic (mg/L)
Arsenic	0.34000	---
Arsenic (T)	---	0.00300
Cadmium	0.00254	0.00095
Cadmium (T)	0.00500	---
Chromium (III)	---	0.10048
Chromium (III) (T)	0.05000	---
Hexavalent Chromium	0.01600	0.01100
Copper	0.01907	0.01230
Iron	---	0.30000
Iron (T)	---	1.00000
Lead	0.09655	0.00376
Lead (T)	0.05000	---
Manganese	3.37905	1.86693
Mercury (T)	---	0.00001
Molybdenum (T)	---	0.15000
Nickel	0.64118	0.07122
Nickel (T)	---	0.10000
Selenium	0.01840	0.00460
Silver	0.00385	0.00014
Uranium	0.01680	0.01680
Zinc	0.22433	0.16991

GV-4.5 Results
Physical
6.67
13.9
Inorganic
<0.030
<0.200
28.9
--
<0.0050
0.185
<0.050
<0.050
41.9
<0.250
Metals
<0.00100
0.00117
0.000208
<0.000100
<0.00600
<0.0350
<0.0050
0.0005
2.25
12
0.0002
0.00078
0.635
0.000000755
<0.0400
<0.0100
<0.0500
<0.00100
<0.00008
0.0000484
0.0124

Temporary Modification for chronic arsenic concentration applied. See Regulation 5 CCR 1002-32 32.6 (2)(c)(iii)

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

- Invalid results, past regulatory hold time

GV-05		
Sample Date:		6/30/2025
Data for Calculations:		
pH	8.03	std units
Hardness	155	mg/L
Temperature	14.1	Celsius
Regulation 32 (5 CCR 1002-32) COARUA24 Standards		
Physical	Acute	Chronic
pH (std. units)	6.5 - 9.0	---
Temperature (°C)	< 21.7	< 17
Inorganic	Acute (mg/L)	Chronic (mg/L)
Ammonia	5.30497	2.329
Boron	---	0.750
Chloride	---	250.000
Chlorine	0.019	0.011
Cyanide (Free)	0.005	---
Nitrate	10	---
Nitrite	---	0.050
Sulfide	---	0.002
Sulfate	---	250.000
Phosphorus	---	0.110
Metals	Acute (mg/L)	Chronic (mg/L)
Arsenic	0.34000	---
Arsenic (T)	---	0.00300
Cadmium	0.00270	0.00100
Cadmium (T)	0.00500	---
Chromium (III)	---	0.10612
Chromium (III) (T)	0.05000	---
Hexavalent Chromium	0.01600	0.01100
Copper	0.02031	0.01302
Iron	---	0.30000
Iron (T)	---	1.00000
Lead	0.10372	0.00404
Lead (T)	0.05000	---
Manganese	3.45496	1.90887
Mercury (T)	---	0.00001
Molybdenum (T)	---	0.15000
Nickel	0.67840	0.07535
Nickel (T)	---	0.10000
Selenium	0.01840	0.00460
Silver	0.00431	0.00016
Uranium	0.01680	0.01680
Zinc	0.23835	0.18053

GV-05 Results	
Physical	
	8.03
	14.1
Inorganic	
	<0.030
	<0.200
	8.08
	--
	<0.0050
	0.123
	<0.050
	<0.050
	41.9
	<0.250
Metals	
	<0.00100
	0.00117
	0.000208
	<0.000100
	<0.00600
	<0.0350
	<0.0050
	0.00061
	0.12
	5.04
	<0.00020
	0.00153
	0.218
	0.00000148
	<0.0400
	<0.0100
	<0.0500
	<0.00100
	<0.00008
	0.0011
	0.0153

Temporary Modification for chronic arsenic concentration applied. See Regulation 5 CCR 1002-32 32.6 (2)(c)(iii)

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

- Invalid results, past regulatory hold time

GV-06		
Sample Date:		6/30/2025
Data for Calculations:		
pH	7.49	std units
Hardness	172	mg/L
Temperature	16.1	Celsius
Regulation 32 (5 CCR 1002-32) COARUA24 Standards		
Physical	Acute	Chronic
pH (std. units)	6.5 - 9.0	---
Temperature (°C)	< 21.7	< 17
Inorganic	Acute (mg/L)	Chronic (mg/L)
Ammonia	3.975	13.483
Boron	0.750	---
Chloride	250.000	---
Chlorine	0.011	0.019
Cyanide (Free)	---	0.005
Nitrate	---	10.000
Nitrite	0.050	---
Sulfide	0.002	---
Sulfate	250.000	---
Phosphorus	0.110	---
Metals	Acute (mg/L)	Chronic (mg/L)
Arsenic	0.34000	---
Arsenic (T)	---	0.00300
Cadmium	0.00298	0.00108
Cadmium (T)	0.00500	---
Chromium (III)	---	0.11556
Chromium (III) (T)	0.05000	---
Hexavalent Chromium	0.01600	0.01100
Copper	0.02240	0.01424
Iron	---	0.30000
Iron (T)	---	1.00000
Lead	0.11594	0.00452
Lead (T)	0.05000	---
Manganese	3.57682	1.97620
Mercury (T)	---	0.00001
Molybdenum (T)	---	0.15000
Nickel	0.74084	0.08228
Nickel (T)	---	0.10000
Selenium	0.01840	0.00460
Silver	0.00516	0.00019
Uranium	0.01680	0.01680
Zinc	0.26201	0.19845

GV-06 Results	
Physical	
	7.49
	16.1
Inorganic	
	0.034
	<0.0200
	6.96
	--
	<0.0050
	0.141
	<0.050
	<0.050
	78.9
	0.413
Metals	
	<0.00100
	<0.00500
	0.000226
	<0.000500
	<0.00600
	<0.0350
	<0.0050
	0.00238
	0.263
	12.2
	0.00023
	0.00724
	2.53
	0.00000236
	<0.0400
	<0.0100
	<0.0500
	<0.00100
	<0.00008
	0.00172
	0.0194

Temporary Modification for chronic arsenic concentration applied. See Regulation 5 CCR 1002-32 32.6 (2)(c)(iii)

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

- Invalid results, past regulatory hold time

Attachment 3

Sampling Logs



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

Location: EMP-16

Date: 6/26/25

Technician: T. Reed

Quarter: 2

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
1:22	—	Inaccessible	—	—

Sample Method: —

Oil/Gas visible [Y/N]

Turbid [Y/N]

Clear [Y/N]

Weather: 65°F overcast

Signature: [Signature]

Comments / Notes:

Emp-16 was Inaccessible due to contractor pumping.

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



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

Location: Emp-17

Date: 6/23/25

Technician: J. Cranford

Quarter: 2

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
10:34	—————	Dry ———		

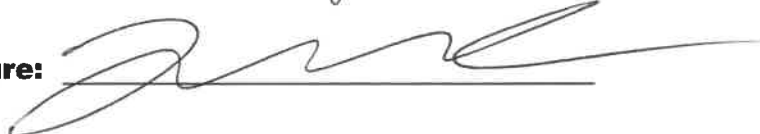
Sample Method:

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

Turbid ~~[Y/N]~~

Clear ~~[Y/N]~~

Weather: 56° F, Partly Cloudy

Signature: 

Comments / Notes:

Emp-17 is Dry.

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



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

Location: EMP-174

Date: 6/23/25

Technician: J. Cranford

Quarter: 2

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
<u>10:27</u>	<u>— Dry —</u>	<u>—</u>	<u>—</u>	<u>—</u>

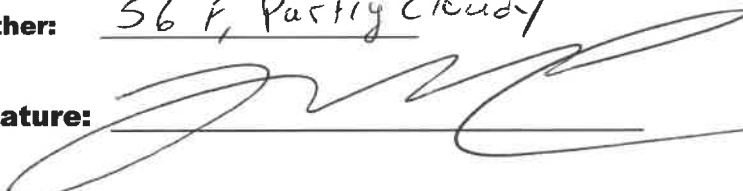
Sample Method:

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

Turbid ~~{Y/N}~~

Clear ~~{Y/N}~~

Weather: 56° F, Partly Cloudy

Signature: 

Comments / Notes:

EMP-174 is dry.

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



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

Location: Emp-17B

Date: 6/23/25

Technician: J. Crawford

Quarter: 2

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
10:35	_____	Dry	_____	_____

Sample Method: _____

Oil/Gas visible [Y/N]

Turbid [Y/N]

Clear [Y/N]

Weather: 54°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.



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

Location: EMP-17C

Date: 6/23/25

Technician: S. Crawford

Quarter: 2

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
10:37	— Dry —		—	—

Sample Method:

Oil/Gas visible [Y/N]

Turbid [Y/N]

Clear [Y/N]

Weather: 54° F, Sunny

Signature: 

Comments / Notes:

EMP-17C is dry

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



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

Location: EMP-20

Date: 6/23/25

Technician: J. Cranford

Quarter: 2

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
10:39	<u> </u>	<u>Dry</u>	<u> </u>	<u> </u>

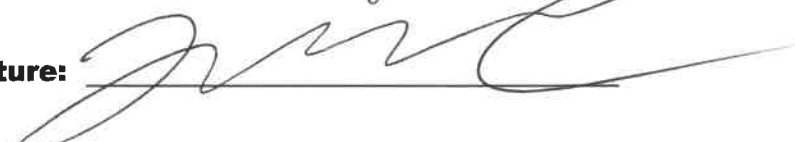
Sample Method:

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

Turbid ~~[Y/N]~~

Clear ~~[Y/N]~~

Weather: 57°F, Partly Cloudy

Signature: 

Comments / Notes:

EMP-20 is dry.

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



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

Location: 6V-02

Date: 6/30/25

Technician: J. Crawford

Quarter: 2

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
10:21	_____	Dry	_____	_____

Sample Method: _____

Oil/Gas visible [Y/N]

Turbid [Y/N]

Clear [Y/N]

Weather: 63°F, Sunny

Signature: _____

Comments / Notes:

6V-02 is dry

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



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

Location: GV-03

Date: 6/30/25

Technician: J. Cranford

Quarter: 2

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
10:25	—	Dry	—	—

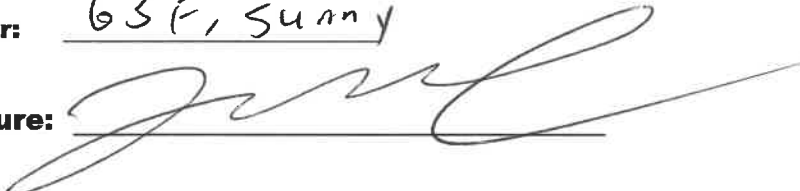
Sample Method:

Oil/Gas visible
 [Y/N]

Turbid
 [Y/N]

Clear
 [Y/N]

Weather: 63°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.



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

Location: GV-4.5

Date: 6/30/20

Technician: J. Cranton

Quarter: 2

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	Chlorine
10:58	6.67	380.1	13.9	18	0.165

Sample Method: grab

Oil/Gas visible ☒ Y ☐ N

Turbid ☒ Y ☐ N

Clear ☐ Y ☒ N

Weather: 63° F, sunny

Signature: [Signature]

Comments / Notes:

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



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

Location: GL-05

Date: 6/30/25

Technician: J. Cranford

Quarter: 2

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	
11:13	8.03	376.4	14.1	160	Chlorine 0.305

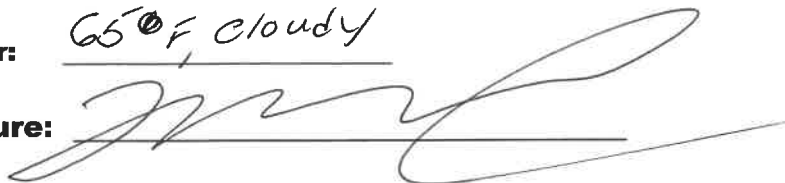
Sample Method: grab

Oil/Gas visible ☒ Y ☐ N

Turbid ☒ Y ☐ N

Clear ☐ Y ☒ N

Weather: 65°F, cloudy

Signature: 

Comments / Notes:

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



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

Location: GV-06

Date: 6/30/25

Technician: J. Cranford

Quarter: 2

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	chlorine
10:30	7.49	395.7	16.1	22	0.093

Sample Method: grab

Oil/Gas visible ☒ Y ☐ N

Turbid ☒ Y ☐ N

Clear ☐ Y ☒ N

Weather: 63°F, sunny

Signature: [Signature]

Comments / Notes:

water was murky due to cows being near sample location

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



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley

Log _____
Date: 6/5/25

Technician: T. Reed.

Quarter: 4

Static Water Level (DTW): 40.65

Well ID: Cuma-4A

Is well Dry? no

If so Dry at:

Well Depth (TD): ~~625~~ 440
feet

[illegible]

Sample Method: *Low flow*

Rate (gpm): 0.11

Time Start: 12:48 Time End: 1:08

* Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH		±0.1	Y / N
Conductivity		3%	Y / N
Temp (deg C)		3%	Y / N
Dissolved Oxygen		10%	Y / N
Turbidity		10%	Y / N
Oxidation/Reduction Potential		±10	Y / N
DTW Stabilized		feet	Y / N
Final H2O level		feet	

If Low Flow Meti Drawdown greater than 0.33 ft?

(Y) N

If yes, required pump vol (gal):
following stabilization

2.05 Actual vol. pumped (gal) ~ 3

* See Field Volume Guide

O/G visible:

Equipment Decontaminated:

Turbid?

Y 10 N

Decontamination procedure used: Triple Rinse liquid knot

Weather:

Signature:

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: $0.67 + 1.14 + 0.3 = 2.05$

- Notes
- Total depth unknown
- Casing damage

QC: 



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley Date: 6/3/25
 Technician: J. Crawford Quarter: 2
 Static Water Level (DTW): 36.78 Well ID: GUMW-7A
 Is well Dry? NO If so Dry at: - Well Depth (TD): 200 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
10:30			7.34	365.3	6.7	2.72	76.4	
10:35	36.98	0.20	7.39	380.7	6.3	0.67	-5.0	
10:40	37.09	0.11	7.40	404.1	6.3	0.40	-26.2	0.10 gpm
10:45	37.15	0.06	7.43	404.5	6.7	0.31	-36.7	
10:50	37.18	0.03	7.44	405.1	6.6	0.22	-41.7	
10:55	37.19	0.01	7.46	405.1	6.6	0.24	-48.9	
11:00	37.19	0.00	7.47	404.6	6.6	0.19	-50.0	

Sample Method: Low Flow Rate (gpm): 0.10 Time Start: 10:30 Time End: 11:00
 * Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	7.47	±0.1	(Y) / N
Conductivity	404.6	3%	(Y) / N
Temp (deg C)	6.6	3%	(Y) / N
Dissolved Oxygen	0.19	10%	(Y) / N
Turbidity		10%	(Y) / N
Oxidation/Reduction Potential	-50.0	±10	(Y) / N
DTW Stabilized	37.19	feet	(Y) / N
Final H2O level	37.19	feet	

If Low Flow Met Drawdown greater than 0.33 ft? (Y) / N ^{SC} If yes, required pump vol (gal): 1.75 Actual vol. pumped (gal) ~ 3
 * See Field Volume Guide following stabilization

O/G visible: (Y) / N Turbid? (Y) / N
 Equipment Decontaminated: (Y) / N
 Decontamination procedure used: Triple Rinse 9.1 quart Knox

Weather: 43° Overcast
 Signature: [Signature]

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: $h(ft) = \text{Total Depth}(TD)(ft) - \text{Depth to Water}(DTW)(ft)$	
Well Volume Purge Method: $\text{Three Well Volumes} = 3 * V$	
Conversions: 1 ft ³ = 7.48 gal 1 gal = 3.785 L	Show Calculations: $37.19 - 36.78 = 0.41$ $0.41 * 1.14 / 0.2 = 1.75$

QC: T. Rued



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
 Technician: T. Reed
 Static Water Level (DTW): 31.87

Date: 6/3/25
 Quarter: 2
 Well ID: GUMN-7B
 Well Depth (TD): 50 feet

Is well Dry? no

If so Dry at:

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
11:15			7.17	528.4	6.8	6.54	98.8	
11:20	31.16	-0.71	7.15	528.3	7.2	6.48	126.0	
11:25	31.24	-0.08	7.09	528.3	7.4	6.35	144.9	
11:30	31.30	-0.06	7.02	528.3	7.6	6.46	161.4	
11:35	31.32	0.00	6.99	528.3	7.3	6.41	164.5	
11:40	31.32	0.00	6.79	528.4	7.3	6.09	172.0	
11:45	31.32	0.00	6.98	528.3	7.2	6.29	185.2	
11:50	31.32	0.00	6.61	528.3	7.2	6.31	190.6	
11:55	31.32	0.00	6.59	528.3	7.3	6.24	196.3	
12:00	31.32	0.00	6.58	528.3	7.3	6.38	199.4	

Sample Method: 10w-P10w Rate (gpm): 0.11 Time Start: 11:15 Time End: 12:00
 * Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	6.58	±0.1	Y / N
Conductivity	528.3	3%	Y / N
Temp (deg C)	7.3	3%	Y / N
Dissolved Oxygen	6.38	10%	Y / N
Turbidity		10%	Y / N
Oxidation/Reduction Potential	199.4	±10	Y / N
DTW Stabilized	31.32	feet	Y / N
Final H2O level	31.32	feet	

If Low Flow Met: Drawdown greater than 0.33 ft? Y / N If yes, required pump vol (gal): Actual vol. pumped (gal) ~ 5 gal
 * See Field Volume Guide following stabilization

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

Equipment Decontaminated: Y / N

Decontamination procedure used: Triple rinse, Alconox

Weather: 49° F Sunny

Signature: [Signature]

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): $V(gal) = 0.1632 * (\pi(in))^2 * h(ft)$

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:

QC: [Signature]



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley

Date: 6/5/20

Technician: T. Reed

Quarter: 2

Static Water Level (DTW): 128.83

Well ID: 60ma-8A

Is well Dry? No

If so Dry at: —

Well Depth (TD): 250 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/l	ORP	Notes
8:32			6.96	733.2	7.2	3.14	280.1	
8:37	128.68	0.05	6.92	735.0	7.3	3.08	251.7	
8:42	128.69	0.01	6.90	737.0	7.3	3.01	239.6	
8:47	128.93	0.04	6.89	733.7	7.37	3.05	225.2	
8:52	128.92	0.01	6.88	736.5	7.7	3.01	222.5	
8:57	128.90	0.02	6.89	736.0	7.8	2.98	221.5	
		Total drawdown						
		0.07						

Sample Method: Low Flow Rate (gpm): 0.10 Time Start: 8:32 Time End: 8:57
* Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	6.89	±0.1	Y / N
Conductivity	736.0	3%	Y / N
Temp (deg C)	7.3	3%	Y / N
Dissolved Oxygen	2.98	10%	Y / N
Turbidity		10%	Y / N
Oxidation/Reduction Potential	221.5	±10	Y / N
DTW Stabilized	128.93	feet	Y / N
Final H2O level	128.90	feet	Y / N

If Low Flow Met: Drawdown greater than 0.33 ft? Y / N If yes, required pump vol (gal): — Actual vol. pumped (gal): 25
* See Field Volume Guide

O/G visible: Y / N Turbid? Y / N
 Equipment Decontaminated: Y / N
 Decontamination procedure used: Dedicated pump

Weather: 490 Sunny
 Signature: [Signature]

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:
 1ft³ = 7.48 gal
 1gal = 3.785 L

Show Calculations:

[Signature]



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley Date: 6/5/25
 Technician: J. Crenford Quarter: 2
 Static Water Level (DTW): 34.99 Well ID: 60mW-03
 Is well Dry? NO If so Dry at: - Well Depth (TD): 50 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
7:55			6.71	738.4	7.9	6.91	282.5	
8:00	35.35	0.36	6.72	729.0	8.7	5.94	272.8	
8:05	35.69	0.34	6.73	723.2	8.7	6.21	263.1	0.04 gpm
8:10	36.15	0.46	6.74	716.8	8.6	6.45	231.4	
8:15	36.30	0.15	6.78	713.2	8.5	7.29	253.6	
8:20	36.33	0.03	6.78	712.2	8.6	7.32	257.5	
8:25	36.34	0.01	6.79	711.9	8.6	7.41	261.4	
Total drawdown 1.35								

Sample Method: Low Flow Rate (gpm): 0.04 Time Start: 7:55 Time End: 8:25
* Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	6.79	Y / N	
Conductivity	711.9	Y / N	
Temp (deg C)	8.6	Y / N	
Dissolved Oxygen	7.41	Y / N	
Turbidity		Y / N	
Oxidation/Reduction Potential	261.4	Y / N	
DTW Stabilized	36.34	Y / N	
Final H2O level	36.34		

If Low Flow Metri Drawdown greater than 0.33 ft? Y / N If yes, required pump vol (gal): 2.14 Actual vol. pumped (gal) ~ 4.25
* See Field Volume Guide

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

Equipment Decontaminated: Dedicated pump

Decontamination procedure used: Dedicated pump

Weather: 48° F Sunny

Signature: [Signature]

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: 1ft³ = 7.48 gal, 1gal = 3.785 L
Show Calculations: $1.35 + 0.29 + 0.5 = 2.14$

QC: T. Reed.



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley Date: 6/24/25
 Technician: J. Cranford Quarter: 2
 Static Water Level (DTW): 232.44 Well ID: GVMW-10
 Is well Dry? no If so Dry at: — Well Depth (TD): 270'
 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
10:55			6.70	1706	13.50	0.82	447.3	
11:00	232.44	0.05	6.75	1716	10.83	0.34	416.3	
11:05	232.50	0.01	6.76	1722	9.14	0.29	386.6	0.04
11:10	232.50	0.06	6.77	1725	8.34	0.32	362.6	
11:15	232.51	0.01	6.77	1732	8.21	0.33	346.3	
11:20	232.44	-0.07	6.77	1737	8.08	0.34	309.2	
11:25	232.48	-0.01	6.77	1737	7.97	0.35	262.8	
11:30	232.44	0.00	6.78	1750	8.01	0.34	285.1	
11:35	232.48	0.00	6.78	1752	8.08	0.34	280.4	
11:40	232.48	0.00	6.78	1755	8.11	0.35	226.6	
11:45	232.48	0.00	6.78	1760	8.16	0.35	222.9	
Total drawdown			0.04					

Sample Method: low-flow Rate (gpm): 0.04 Time Start: 10:55 Time End: 11:45
 * Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	6.78	Y / N	
Conductivity	1760	Y / N	
Temp (deg C)	8.16	Y / N	
Dissolved Oxygen	0.35	Y / N	
Turbidity		Y / N	
Oxidation/Reduction Potential	222.9	Y / N	
DTW Stabilized	232.50	Y / N	
Final H2O level	232.48		

If Low Flow Met? Drawdown greater than 0.33 ft? Y / N If yes, required pump vol (gal): — Actual vol. pumped (gal) ~ 4
 * See Field Volume Guide following stabilization

O/G visible: Y / N Turbid? Y / N
 Equipment Decontaminated: Y / N
 Decontamination procedure used: Triple Rinse, Alconox

Weather: 67°F, Partly Cloudy
 Signature: [Signature]

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:	Show Calculations:
1 ft ³ = 7.48 gal	
1 gal = 3.785 L	

Q.E.T. record.



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Crosby Valley Date: 6/5/23
 Technician: T. Reed Quarter: 2
 Static Water Level (DTW): 93.02' Well ID: Gumbar 13A
 Is well Dry? No If so Dry at: 7 Well Depth (TD): 355.59'
 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/l	ORP	Notes
10:40			6.42	957	7.4	1.20	58.1	
10:45	93.09	0.07	6.46	772	6.9	0.87	42.9	
10:50	93.18	0.09	6.47	752.9	6.8	0.80	36.4	
10:55	93.20	0.02	6.47	745.4	7.1	0.69	29.9	
11:00	93.20	0.00	6.47	744.3	7.2	0.64	24.4	
11:05	93.20	0.00	6.48	738.3	7.2	0.62	21.7	
Total Drawdown 0.18								

Sample Method: Low Flow Rate (gpm): 0.1 Time Start: 10:40 Time End: 11:05
 * Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	6.48	±0.1	Y / N
Conductivity	738.3	3%	Y / N
Temp (deg C)	7.2	3%	Y / N
Dissolved Oxygen	0.62	10%	Y / N
Turbidity		10%	Y / N
Oxidation/Reduction Potential	21.7	±10	Y / N
DTW Stabilized	93.20	feet	Y / N
Final H2O level	93.20	feet	

If Low Flow Met? Drawdown greater than 0.33 ft? Y / N If yes, required pump vol (gal): — Actual vol. pumped (gal) ~3 gal
 * See Field Volume Guide following stabilization

O/G visible: Y / N Turbid? Y / N
 Equipment Decontaminated: Y / N
 Decontamination procedure used: Triple Rinse Liquid Wash

Weather: 52°F Sunny
 Signature: T. Reed

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:

[Handwritten signature]

Groundwater Sampling Log

Date: 01/01

Quarter: 2

Well ID: GL-15-15

Well Depth (TD): 102
feet

Sample Method: low-flow Rate (gpm): 0.07 Time Start: 10:40 Time End: 11:05
* Flow rate at stabilization (during sample collection)

If Low Flow Met/Drawdown greater than 0.33 ft? Y N If yes, required pump vol (gal): _____ Actual vol. pumped (gal) _____
following stabilization
* See Field Volume Guide

Turbid? Yes - Slight tan

^vTripple rinse, Alclonox

Weather: 53°F, Sunny

Signature: _____

QC: T. Reed.

Groundwater Sampling Log

Well ID: 60m-152

Well Depth (TD): _____
feet

Sample Method: _____ Rate (gpm): _____ Time Start: 10:36 Time End: 10:38
* Flow rate at stabilization (during sample collection)

If Low Flow Met/Drawdown greater than 0.33 ft? ~~Y~~ ~~N~~ If yes, required pump vol (gal): _____ Actual vol. pumped (gal) _____
following stabilization
* See Field Volume Guide

Turbid? ~~Y~~ N

Signature: _____

Notes:
Gummase ist Ort



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley Date: 6/3/25
 Technician: T. Reed Quarter: 2
 Static Water Level (DTW): 3.12 Well ID: 6UMW-22A
 Is well Dry? No If so Dry at: — Well Depth (TD): 70 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
9:20			7.72	367.3	6.7	2.46	80.8	
9:25	3.22	0.10	7.83	531.8	5.7	1.32	107.5	
9:30	3.47	0.25	7.86	532.1	6.0	0.79	123.7	0.17 gpm
9:35	3.72	0.25	7.88	531.7	6.1	0.93	137.5	
9:40	3.80	0.08	7.89	531.7	6.3	0.86	148.2	
9:45	3.85	0.05	7.89	531.7	6.4	0.89	151.2	
9:50	3.85	0.00	7.90	531.7	6.4	0.89	151.4	

Sample Method: Low Flow Rate (gpm): 0.17 Time Start: 9:20 Time End: 9:50
 * Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	7.90	±0.1	Y / N
Conductivity	531.7	3%	Y / N
Temp (deg C)	6.4	3%	Y / N
Dissolved Oxygen	0.89	10%	Y / N
Turbidity		10%	Y / N
Oxidation/Reduction Potential	151.4	±10	Y / N
DTW Stabilized	3.85	feet	Y / N
Final H2O level	0.85	feet	

If Low Flow Met? Drawdown greater than 0.33 ft? Y / N If yes, required pump vol (gal): 0.90 Actual vol. pumped (gal): 2.5 gal
 * See Field Volume Guide following stabilization

O/G visible: Y / N Turbid? Y / N
 Equipment Decontaminated: Y / N
 Decontamination procedure used: triple rinse liquid krox

Weather: 45° F overcast
 Signature: [Signature]

Volume Calculations:	
For 2" Diameter Well (gal): $V(gal) = 0.1632 \cdot h(ft)$	For 4" Diameter Well (gal): $V(gal) = 0.6528 \cdot h(ft)$
Other Diameter Well & Tubing Vol (gal): $V(gal) = 0.1632 \cdot (r(in))^2 \cdot h(ft)$	
Water Column Calculation: $h(ft) = \text{Total Depth}(TD)(ft) - \text{Depth to Water}(DTW)(ft)$	
Well Volume Purge Method: $\text{Three Well Volumes} = 3 \cdot V$	
Conversions: 1 ft ³ = 7.48 gal 1 gal = 3.785 L	Show Calculations: $3.85 - 3.12 = 0.73'$ $0.5 + 0.40 = 0.90$

[Signature]



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: grassy valley
 Technician: J. Cranford
 Static Water Level (DTW): 3.01

Date: 6/3/25
 Quarter: 2
 Well ID: CLM-22B
 Well Depth (TD): 30 feet

Is well Dry? no

If so Dry at: —

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
8:40			6.57	348.1	5.8	4.74	197.2	
8:45	3.21	0.20	6.64	296.1	5.7	3.63	218.7	
8:50	3.29	0.08	6.68	283.3	5.7	3.46	238.7	0.2 gpm
8:55	3.31	0.02	6.69	281.7	5.6	3.41	251.4	
9:00	3.33	0.02	6.70	281.6	5.6	3.49	255.6	
9:05	3.33	0.00	6.71	281.5	5.5	3.43	260.9	
Total drawdown								
0.32								

Sample Method: low-flow Rate (gpm): 0.20 Time Start: 8:40 Time End: 9:05
 * Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	6.71	±0.1	Y / N
Conductivity	281.5	3%	Y / N
Temp (deg C)	5.5	3%	Y / N
Dissolved Oxygen	3.43	10%	Y / N
Turbidity		10%	Y / N
Oxidation/Reduction Potential	260.9	±10	Y / N
DTW Stabilized	3.33	feet	Y / N
Final H2O level	3.33	feet	

If Low Flow Met: Drawdown greater than 0.33 ft? Y / N If yes, required pump vol (gal): — Actual vol. pumped (gal) ~5
 * See Field Volume Guide

O/G visible: Y / N Turbid? Y / N
 Equipment Decontaminated: Y / N
 Decontamination procedure used: Triple rinse, Aldenox

Weather: 41°F, Cloudy
 Signature: [Signature]

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:

Q: T. Reed.

Groundwater Sampling Log

Date: 6/9/25

Quarter: 2

Well ID: GUMU-24A

Well Depth (TD): 250
feet

Insufficient to pump
Due to silty water

* Flow rate at stabilization (during sample collection)

pH		±0.1	Y / N
Conductivity		3%	Y / N
Temp (deg C)		3%	Y / N
Dissolved Oxygen		10%	Y / N
Turbidity		10%	Y / N
Oxidation/Reduction Potential		±10	Y / N
DTW Stabilized		feet	Y / N
Final H2O level		feet	

* See Field Volume Guide

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

Turbid? 7 N

Weather: 58° F Sunny
Signature: [Signature]

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:

Notes:
Well is extremely silty.



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley Date: 6/4/25
 Technician: J. Crawford Quarter: 2
 Static Water Level (DTW): 87.50 Well ID: Gumw-24B
 Is well Dry? NO If so Dry at: Well Depth (TD): 100
 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/l	ORP	Notes
12:25			5.07	2463	7.0	7.10	309.0	
12:30	87.29	0.24	5.07	2441	7.2	6.78	330.3	
12:35	87.35	0.06	5.08	2432	7.4	6.62	333.4	0.10 gpm
12:40	87.36	0.01	5.07	2434	7.4	6.48	335.1	
12:45	87.36	0.00	5.04	2437	7.4	6.28	338.4	
Total drawdown								
0.36								

Sample Method: low-flow Rate (gpm): 0.10 Time Start: 12:25 Time End: 12:45
 * Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	5.04	±0.1	Y / N
Conductivity	2437	3%	Y / N
Temp (deg C)	7.4	3%	Y / N
Dissolved Oxygen	6.28	10%	Y / N
Turbidity		10%	Y / N
Oxidation/Reduction Potential	338.4	±10	Y / N
DTW Stabilized	87.36	feet	Y / N
Final H2O level	87.36	feet	

If Low Flow Met! Drawdown greater than 0.33 ft? (Y) / N If yes, required pump vol (gal): Actual vol. pumped (gal) 2.5
 * See Field Volume Guide following stabilization

O/G visible: Y / (N) Turbid? Y / (N)
 Equipment Decontaminated: (Y) / N
 Decontamination procedure used: Triple rinse Aicknux

Weather: 58°F, Sunny
 Signature: [Signature]

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: $h(ft) = \text{Total Depth}(TD)(ft) - \text{Depth to Water}(DTW)(ft)$	
Well Volume Purge Method: $\text{Three Well Volumes} = 3 * V$	
Conversions: 1ft³ = 7.48 gal 1gal = 3.785 L	Show Calculations: <u>0.36 ft</u>

QC: T. Reed



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley Date: 6/10/25
 Technician: J. Cranford Quarter: 2
 Static Water Level (DTW): 46.54 Well ID: GUMW-25
 Is well Dry? no If so Dry at: — Well Depth (TD): 74 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
12:20			3.88	4247	7.18	1.88	535.8	
12:25	46.67	0.15	3.89	4300	7.43	1.68	549.8	
12:30	46.67	0.00	3.85	4281	7.33	1.83	535.4	
12:35	46.69	0.04	3.82	4257	7.28	1.96	541.1	
12:40	46.70	0.01	3.80	4252	7.24	2.11	562.3	
12:45	46.70	0.00	3.77	4296	7.14	2.16	564.6	
12:50	46.71	0.01	3.74	4219	7.17	2.59	569.1	
12:55	46.71	0.00	3.72	4101	7.16	2.62	571.5	
1:00	46.71	0.00	3.72	4119	7.14	2.60	572.5	
Total drawdown								
0.24								

Sample Method: low-flow Rate (gpm): 0.05 Time Start: 12:20 Time End: 1:00
 * Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	3.72	±0.1	Y / N
Conductivity	4119	3%	Y / N
Temp (deg C)	7.14	3%	Y / N
Dissolved Oxygen	2.60	10%	Y / N
Turbidity		±0%	Y / N
Oxidation/Reduction Potential	572.5	±10	Y / N
DTW Stabilized	46.70	feet	Y / N
Final H2O level	46.71	feet	

If Low Flow Met? Drawdown greater than 0.33 ft? Y / (N) If yes, required pump vol (gal): — Actual vol. pumped (gal): ~5
 * See Field Volume Guide following stabilization

O/G visible: Y / (N) Turbid? Y / (N)
 Equipment Decontaminated: Y / N
 Decontamination procedure used: Triple Rinse liquid knox

Weather: 61° F, Sunny
 Signature: [Signature]

Volume Calculations:
 For 2" Diameter Well (gal): $V(\text{gal}) = 0.1632 \cdot h(\text{ft})$ For 4" Diameter Well (gal): $V(\text{gal}) = 0.6528 \cdot h(\text{ft})$
 Other Diameter Well & Tubing Vol (gal): $V(\text{gal}) = 0.1632 \cdot (r(\text{in}))^2 \cdot h(\text{ft})$
 Water Column Calculation: $h(\text{ft}) = \text{Total Depth(TD)}(\text{ft}) - \text{Depth to Water(DTW)}(\text{ft})$
 Well Volume Purge Method: Three Well Volumes = 3*V
 Conversions: 1ft³ = 7.48 gal, 1gal = 3.785 L
 Show Calculations:

QC: T. Reed.



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley Date: 6/4/25
 Technician: T. Reed Quarter: 2
 Static Water Level (DTW): 5.42 Well ID: 6UMW-26A
 Is well Dry? NO If so Dry at: — Well Depth (TD): 71
 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
12:55			7.63	312.2	5.7	1.01	113.5	
1:00	5.64	0.27	7.88	313.0	5.7	0.36	110.1	
1:05	5.78	0.06	7.92	312.1	5.8	0.21	114.7	0.16 gpm
1:10	5.79	0.04	7.95	312.0	5.8	0.17	121.5	
1:15	5.81	0.02	7.97	311.6	5.8	0.21	125.7	
1:20	5.81	0.00	7.98	311.5	5.9	0.19	130.7	
Total drawdown 0.39								

Sample Method: Low Flow Rate (gpm): 0.16 Time Start: 12:55 Time End: 1:20
 * Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	7.98	Y / N	
Conductivity	311.5	Y / N	
Temp (deg C)	5.9	Y / N	
Dissolved Oxygen	0.19	Y / N	
Turbidity		Y / N	
Oxidation/Reduction Potential	130.7	Y / N	
DTW Stabilized	5.81	Y / N	
Final H2O level	5.81		

If Low Flow Met? Drawdown greater than 0.33 ft? Y / N If yes, required pump vol (gal): 1.10 Actual vol. pumped (gal): ~4
 * See Field Volume Guide following stabilization

O/G visible: Y / N Turbid? Y / N
 Equipment Decontaminated: Y / N
 Decontamination procedure used: Triple Rinse liquid knock

Weather: 55° F Sunny
 Signature: [Signature]

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: $0.39 + 0.41 + 0.30 = 1.10$

QC: [Signature]



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
 Technician: T. Reed
 Static Water Level (DTW): 5.58'

Date: 6/4/25
 Quarter: 2
 Well ID: Gumw-26B
 Well Depth (TD): 26
 feet

Is well Dry? NO

If so Dry at: —

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
12:13			6.37	250.7	6.4	9.15	229.1	
12:18	5.65	0.07	6.46	144.7	5.8	8.11	258.0	
12:23	5.68	0.03	6.48	121.1	5.8	7.86	274.6	0.06 gpm
12:28	5.70	0.02	6.52	127.9	5.7	7.71	281.2	
12:33	5.71	0.01	6.53	125.0	5.8	7.07	280.3	
12:38	5.71	0.00	6.55	127.0	5.7	7.30	278.4	
12:43								
		Total drawdown						
		0.13						

Sample Method: Low flow Rate (gpm): 0.06 Time Start: 12:13 Time End: 12:38
 * Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	6.55	±0.1	(Y) / N
Conductivity	127.0	3%	(Y) / N
Temp (deg C)	5.7	3%	(Y) / N
Dissolved Oxygen	7.30	10%	(Y) / N
Turbidity		10%	Y / N
Oxidation/Reduction Potential	278.4	±10	(Y) / N
DTW Stabilized	5.71	feet	(Y) / N
Final H2O level	5.71	feet	

If Low Flow Met: Drawdown greater than 0.33 ft? Y / (N) If yes, required pump vol (gal): — Actual vol. pumped (gal) ~ 1.5
 * See Field Volume Guide following stabilization

O/G visible: Y / (N) Turbid? Y / (N)
 Equipment Decontaminated: (Y) / N
 Decontamination procedure used: Triple Rinse liquid knock

Weather: 54°F Sunny
 Signature: [Signature]

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:

QC: [Signature]



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley Date: 6/23/25
 Technician: J. Cranford Quarter: 2
 Static Water Level (DTW): 55.15 Well ID: GLMW-27
 Is well Dry? no If so Dry at: — Well Depth (TD): 74.28
 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
1:26			5.04	4488	7.91	0.61	311.1	
1:31	55.24	0.09	4.75	3321	7.39	0.09	329.6	
1:36	55.24	0.05	4.48	2882	7.40	0.11	324.8	0.11 gpm
1:41	55.32	0.04	4.46	2709	7.32	0.24	391.0	
1:46	55.35	0.03	4.55	2128	7.37	1.65	389.4	
1:51	55.36	0.01	4.83	1839	7.30	3.78	362.9	
1:56	55.37	0.01	4.92	1374	7.35	4.45	351.4	
2:01	55.37	0.00	4.93	1346	7.36	4.54	348.6	
2:06	55.37	0.00	4.93	1338	7.41	4.59	346.3	
Total Drawdown								
0.22								

Sample Method: low-flow Rate (gpm): 0.11 Time Start: 1:26 Time End: 2:06
 * Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	4.93	±0.1	Y / N
Conductivity	1338	3%	Y / N
Temp (deg C)	7.41	3%	Y / N
Dissolved Oxygen	4.59	10%	Y / N
Turbidity		10%	Y / N
Oxidation/Reduction Potential	346.3	±10	Y / N
DTW Stabilized	55.37	feet	Y / N
Final H2O level	55.37	feet	

If Low Flow Metri Drawdown greater than 0.33 ft? Y / (N) If yes, required pump vol (gal): — Actual vol. pumped (gal): ~5.25
 * See Field Volume Guide following stabilization

O/G visible: Y / (N) Turbid? Y / N

Equipment Decontaminated: Y / N

Decontamination procedure used: Triple rinse, Alconox

Weather: 60°F, Sunny

Signature: [Signature]

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

QC: T. Reed.



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley Date: 6/10/25
 Technician: J. Cranford Quarter: 2
 Static Water Level (DTW): 33.46 Well ID: GVMW-28
 Is well Dry? no If so Dry at: — Well Depth (TD): 71.56
 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
10:35			3.10	6464	8.89	3.14	601.4	
10:40	33.72	0.26	3.11	6594	8.90	3.18	600.6	
10:45	33.92	0.20	3.11	6588	9.76	3.70	600.0	0.05 gpm
10:50	33.97	0.05	3.10	6581	7.32	3.03	609.2	
10:55	34.00	0.03	3.10	6584	7.25	3.01	612.2	
11:00	34.00	0.00	3.10	6541	7.23	3.00	613.7	
Total Drawdown								
0.54								

Sample Method: low-flow Rate (gpm): 0.05 Time Start: 10:35 Time End: 11:00
 * Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	3.10	±0.1	Y/N
Conductivity	6541	3%	Y/N
Temp (deg C)	7.23	3%	Y/N
Dissolved Oxygen	3.00	10%	Y/N
Turbidity		10%	Y/N
Oxidation/Reduction Potential	613.7	±10	Y/N
DTW Stabilized	34.00	feet	Y/N
Final H2O level	34.00	feet	

If Low Flow Metri Drawdown greater than 0.33 ft? Y/N If yes, required pump vol (gal): 994 Actual vol. pumped (gal) — 2
 * See Field Volume Guide following stabilization

O/G visible: Y/N Turbid? Y/N
 Equipment Decontaminated: Y/N
 Decontamination procedure used: Triple rinse, alcohol

Weather: 60°F, Sunny
 Signature: [Signature]

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: <u>0.54 + 0.40 = 0.94</u>

Qc. T. Reed.



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley

Log 6/24/25
Date: _____

Technician: J. Cranford

Quarter: 2

Static Water Level (DTW): 37.95

Well ID: 60114-29

Is well Dry? yes

If so Dry at: 37.95

Well Depth (TD): 38.05
feet

[illegible]

Sample Method: _____ Rate (gpm): _____ Time Start: _____ Time End: _____
** Flow rate of stabilization (during sample collection)*

* Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	±0.1	Y / N	
Conductivity	3%	Y / N	
Temp (deg C)	3%	Y / N	
Dissolved Oxygen	10%	Y / N	
Turbidity	10%	Y / N	
Oxidation/Reduction Potential	±10	Y / N	
DPW Stabilized	feet	Y / N	
Final H2O level	feet		

if Low Flow Met³ Drawdown greater than 0.33 ft? Y / N If yes, required pump vol (gal): Actual vol. pumped (gal)
following stabilization

* See Field Volume Guide

* See Field Volume Guide

O/G visible: Turbid?

Decontamination procedure used: Triple rinse, Alconox

Weather: 65°F, cloudy

Signature:

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:

Q. T. Reed.

Groundwater Sampling Log

Well Depth (TD): 51.29
feet

Sample Method: Low-Flow Rate (gpm): 0.08 Time Start: 9:46 Time End: 10:06
* Flow rate at stabilization (during sample collection)

If Low Flow Met₁ Drawdown greater than 0.33 ft? ☒ Y / ☐ N If yes, required pump vol (gal): 0.89 gal Actual vol. pumped (gal): ~1.6 gal
following stabilization
* See Field Volume Guide

Signature: 

Notes:
Water level did not stabilize.

QC: T. Reed.



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley

Date: 6/24/25

Technician: J. Cranford

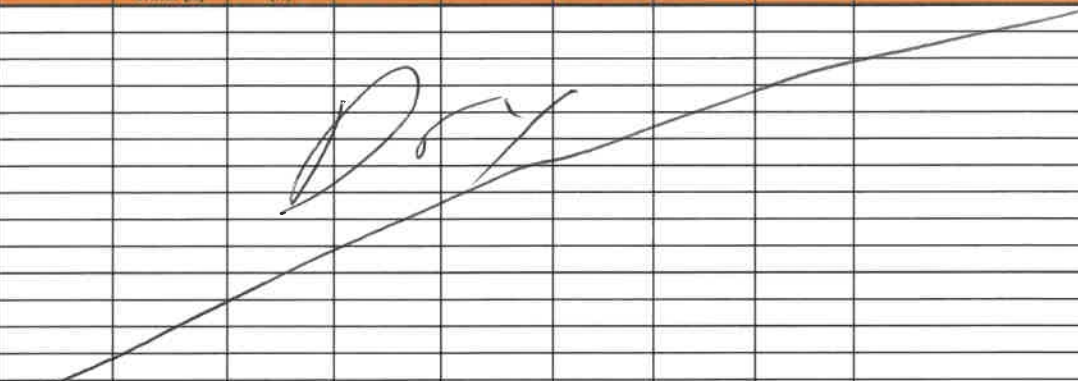
Quarter: 2

Static Water Level (DTW): 61.27

Well ID: Gumw-31

Is well Dry? Yes

If so Dry at: 61.72 Well Depth (TD): 61.75 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/l	ORP	Notes
								

Sample Method: _____ Rate (gpm): _____ Time Start: _____ Time End: _____
** Flow rate at stabilization (during sample collection)*

Final Parameter	Stabilization Guidance	Met?	Comments
pH	±0.1	Y / N	
Conductivity	3%	Y / N	
Temp (deg C)	3%	Y / N	
Dissolved Oxygen	10%	Y / N	
Turbidity	10%	Y / N	
Oxidation/Reduction Potential	±10	Y / N	
DTW Stabilized	feet	Y / N	
Final H2O level	feet		

If Low Flow Met¹ Drawdown greater than 0.33 ft? Y / N If yes, required pump vol (gal): Actual vol. pumped (gal)
 * See Field Volume Guide following stabilization

O/G visible:  Turbid? 
Equipment Decontaminated:  Tripple rinse, AICHOX
Decontamination procedure used:

Weather: 66° F, Partly Cloudy

Signature:

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:

Qc: T. Reed.



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Grassy Valley

Log 6/24/25

Date: _____

Technician: J. Cranford

Quarter: 2

Static Water Level (DTW): 66.75

Well ID: GUMW-32

Is well Dry? Yes

If so Dry at: 66.75 Well Depth (TD): 67.17
feet

[illegible]

Sample Method: _____ Rate (gpm): _____ Time Start: _____ Time End: _____
** Flow rate at stabilization (during sample collection)*

* Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	±0.1	Y / N	
Conductivity	3%	Y / N	
Temp (deg C)	3%	Y / N	
Dissolved Oxygen	10%	Y / N	
Turbidity	10%	Y / N	
Oxidation/Reduction Potential	±10	Y / N	
DTW Stabilized	feet	Y / N	
Final H2O level	feet		

If Low Flow Met³ Drawdown greater than 0.33 ft? If yes, required pump vol (gal): _____ Actual vol. pumped (gal) _____
* See Field Volume Guide
following stabilization

* See Field Volume Guide

O/G visible:  Turbid? 
Equipment Decontaminated:  Triple rinse, Alconox
Decontamination procedure used:

Decontamination procedure used: 70% alcohol

Weather: 66°F, Partly Cloudy

Signature: 

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:

QC T. Reed.



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
 Technician: J. Cranford
 Static Water Level (DTW): 63.21

Date: 6/10/25
 Quarter: 2
 Well ID: GUMW-33
 Well Depth (TD): 85.70
 feet

Is well Dry? no

If so Dry at: -

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
4:25			3.83	4563	8.75	0.55	435.8	
4:30	63.41	0.20	3.89	4525	7.88	0.21	458.1	
9:35	64.04	0.63	3.90	4776	8.13	0.19	474.9	0.09 gpm
9:40	64.36	0.32	3.90	4744	8.70	0.19	476.1	
9:45	64.50	0.14	3.89	4717	8.98	0.19	479.9	
9:50	64.69	0.19	3.88	4690	9.44	0.20	475.3	
9:55	64.75	0.16	3.86	4718	9.49	0.20	477.1	
10:00	64.80	0.05	3.86	4674	9.56	0.20	470.9	
10:05	64.89	0.09	3.86	4653	9.65	0.21	468.1	
Total drawdown								
1.78								

Sample Method: low-flow Rate (gpm): 0.09 Time Start: 4:25 Time End: 10:05
 * Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	3.86	Y / N	
Conductivity	4653	Y / N	
Temp (deg C)	9.65	Y / N	
Dissolved Oxygen	0.21	Y / N	
Turbidity		Y / N	
Oxidation/Reduction Potential	468.1	Y / N	
DTW Stabilized	64.80	Y / (N)	Bad Recovery
Final H2O level	64.89		

If Low Flow Met? Drawdown greater than 0.33 ft? (Y) N If yes, required pump vol (gal): na Actual vol. pumped (gal) ~ 2.5
 * See Field Volume Guide following stabilization

O/G visible: Y / (N) Turbid? Y / N
 Equipment Decontaminated: Y / N Tripple rinse, ticknot
 Decontamination procedure used: _____

Weather: 59°F, Sunny

Signature: _____

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: $h(ft) = \text{Total Depth}(TD)(ft) - \text{Depth to Water}(DTW)(ft)$

Well Volume Purge Method: $\text{Three Well Volumes} = 3 * V$

Conversions: $1ft^3 = 7.48 gal$ $1gal = 3.785 L$

Show Calculations:

Notes: water level did not stabilize.

QC: T. Reed.



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
 Technician: J. Cranford
 Static Water Level (DTW): 62.59

Date: 6/25/25
 Quarter: 2
 Well ID: Gumw-34
 Well Depth (TD): 81.59
 feet

Is well Dry? no

If so Dry at: —

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
10:30			5.68	3726	11.45	0.82	273.9	
10:35	62.16	0.87	5.73	3645	9.64	0.44	284.6	0.07 gpm
10:40	62.45	0.14	5.77	3623	9.77	0.34	284.9	
10:45	62.61	0.16	5.77	3603	9.83	0.33	292.2	
10:50	62.64	0.03	5.74	3632	9.87	0.33	293.6	
10:55	62.66	0.02	5.71	3671	9.95	0.35	292.6	
11:30								
Total drawdown								
1.27								

Sample Method: 100-flow Rate (gpm): 0.07 Time Start: 10:30 Time End: 10:55
 * Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	5.71	±0.1	Y / N
Conductivity	3671	3%	Y / N
Temp (deg C)	9.95	3%	Y / N
Dissolved Oxygen	0.35	10%	Y / N
Turbidity		10%	Y / N
Oxidation/Reduction Potential	292.6	±10	Y / N
DTW Stabilized	62.64	feet	Y / N
Final H2O level	62.66	feet	

If Low Flow Met: Drawdown greater than 0.33 ft? Y / N If yes, required pump vol (gal): 1.31 gal Actual vol. pumped (gal): ~2 gal
 * See Field Volume Guide following stabilization

O/G visible: Y / N Turbid? Y / N
 Equipment Decontaminated: Y / N
 Decontamination procedure used: Triple rinse, Alconox

Weather: 63°F, Partly cloudy
 Signature: [Signature]

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:
 1ft³ = 7.48 gal
 1gal = 3.785 L
 Show Calculations:
~~1.27~~ 0.8 + 0.51 = 1.31 gal

QC checked.

Groundwater Sampling Log

Log 6/23/25
Date: _____

Quarter: 2

Well ID: GUMW-354

If so Dry at: _____

Well Depth (TD): 340
feet

[illegible]

Sample Method: grab Rate (gpm): Time Start: 10:15 Time End: 10:15
* Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH		±0.1	Y / N
Conductivity		3%	Y / N
Temp (deg C)		3%	Y / N
Dissolved Oxygen		10%	Y / N
Turbidity		10%	Y / N
Oxidation/Reduction Potential		±10	Y / N
DTW Stabilized		feet	Y / N
Final H2O level		feet	

If Low Flow Met¹ Drawdown greater than 0.33 ft? ~~Y~~ If yes, required pump vol (gal): _____ Actual vol. pumped (gal) _____
 * See Field Volume Guide following stabilization

O/G visible: Y / N Turbid? Y / N
Equipment Decontaminated: Y / N
Decontamination procedure used: add. capped Pump

Weather: 54°F, Partly Cloudy

Signature: [Signature]

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:

notes:

- unable to low-flow so grab sample was
- unable to get total depth due to dedicated pump/wires,

QC: T. Reed



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: goussy valley

Date: 6/25/25

Technician: S. Cranford

Quarter: 2

Static Water Level (DTW): 32.45

Well ID: GUMW-35B

Is well Dry? no

If so Dry at: -

Well Depth (TD): 72.90
feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/l	ORP	Notes
11:19			11.06	2606	11.74	2.08	49.2	
11:24	32.74	0.29	8.85	2422	9.13	0.53	171.0	
11:29	32.90	0.16	8.61	2443	9.16	0.43	258.8	0.05 gpm
11:34	33.11	0.21	8.54	2424	9.01	0.32	265.7	
11:39	33.39	0.19	8.36	2475	9.28	0.30	288.3	
11:44	33.30	0.10	8.37	2482	9.43	0.24	293.6	
11:49	33.30	0.00	8.37	2425	9.51	0.22	297.1	
Total drawdown								
0.85								

Sample Method: low-flow

Rate (gpm): 0.05

Time Start: 11:19 Time End: 11:49

* Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	8.37	Y / N	
Conductivity	2425	Y / N	
Temp (deg C)	9.51	Y / N	
Dissolved Oxygen	0.22	Y / N	
Turbidity		Y / N	
Oxidation/Reduction Potential	297.1	Y / N	
DTW Stabilized	33.30	Y / N	
Final H2O level	33.30		

If Low Flow Met? Drawdown greater than 0.33 ft? Y / N
* See Field Volume Guide

If yes, required pump vol (gal): 1.02 gal Actual vol. pumped (gal) ~1.5 gal
following stabilization

O/G visible:

Equipment Decontaminated: Y / N

Turbid?

Y / N

Decontamination procedure used:

Triple rinse, Alconox

Weather:

64°F, sunny

Signature:

[Signature]

Volume Calculations:

For 2" Diameter Well (gal): $V(\text{gal}) = 0.1632 \cdot h(\text{ft})$ For 4" Diameter Well (gal): $V(\text{gal}) = 0.6528 \cdot h(\text{ft})$

Other Diameter Well & Tubing Vol (gal): $V(\text{gal}) = 0.1632 \cdot (r(\text{in}))^2 \cdot h(\text{ft})$

Water Column Calculation: $h(\text{ft}) = \text{Total Depth(TD)}(\text{ft}) - \text{Depth to Water(DTW)}(\text{ft})$

Well Volume Purge Method: $\text{Three Well Volumes} = 3 \cdot V$

Conversions:

$1 \text{ ft}^3 = 7.48 \text{ gal}$

$1 \text{ gal} = 3.785 \text{ L}$

Show Calculations:

0.85

$0.6 + 0.42 = 1.02 \text{ gal}$

QC: T. Reed



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley Date: 6/25/25 - 6/26/25
 Technician: J. Cranford Quarter: 2
 Static Water Level (DTW): 17.25 Well ID: Gumw-36
 Is well Dry? no If so Dry at: — Well Depth (TD): 37.79 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
12:07			3.47	4160	8.51	4.16	570.6	
12:12	17.20	0.05	3.47	4345	8.47	3.98	574.1	
12:17	17.44	0.24	3.46	4560	8.12	3.96	577.3	0.06 gpm
12:22	18.01	0.57	3.47	4324	8.25	3.82	569.3	
12:27	18.64	0.68	3.43	4373	8.50	3.89	591.5	
12:32	19.36	0.67	3.44	4353	8.22	3.85	587.7	
12:37	19.57	0.21	3.45	4359	8.59	3.84	585.0	
12:42	19.67	0.10	3.44	4333	8.64	3.74	581.7	
12:47	20.25	0.58	3.42	4451	7.20	3.87	590.7	
1:15	36.40							
6:15	27.74							

Sample Method: Low Flow PDR Rate (gpm): 0.06 Time Start: 12:07 Time End: 6/26/25
 * Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	±0.1	Y / N	
Conductivity	3%	Y / N	
Temp (deg C)	3%	Y / N	
Dissolved Oxygen	10%	Y / N	
Turbidity	10%	Y / N	
Oxidation/Reduction Potential	±10	Y / N	
DTW Stabilized	feet	Y / N	
Final H2O level	feet		

If Low Flow Met: Drawdown greater than 0.33 ft? Y / N If yes, required pump vol (gal): — Actual vol. pumped (gal) —
 * See Field Volume Guide following stabilization

O/G visible: Y / (N) Turbid? Y / (N)
 Equipment Decontaminated: (Y) / N
 Decontamination procedure used: Tripple rinse, Aickner

Weather: 65°F, Partly cloudy
 Signature: [Signature]

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: $h(ft) = \text{Total Depth}(TD)(ft) - \text{Depth to Water}(DTW)(ft)$	
Well Volume Purge Method: Three Well Volumes = 3*V	
Conversions: 1ft ³ = 7.48 gal 1gal = 3.785 L	Show Calculations: $20.54 * 4 = 18.49$ $37.79 - 17.25 =$ $37.79 - 18.49 = 19.3 \text{ Min DTW}$

Notes: Water level too unstable to low-flow. Purge & return method used instead. Qc: T. Reed.
 • No sample taken did not meet minimum depth to water (90% recovery)



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy valley
 Technician: J. Crawford
 Static Water Level (DTW): 31.97

Date: 6/5/25
 Quarter: 2
 Well ID: GLMN-37A
 Well Depth (TD): 201.20
 feet

Is well Dry? no

If so Dry at: —

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/l	ORP	Notes
9:26			9.15	611.52	7.46	0.32	235	
9:25	32.27	0.30	9.17	605.68	7.26	0.17	211.5	0.09 gpm
9:30	32.38	0.11	9.18	609.65	7.19	0.15	218.9	
9:35	32.41	0.03	9.18	594.01	7.26	0.11	211.6	
9:40	32.42	0.01	9.19	601.90	7.25	0.09	213.9	
Total Drawdown 0.45								

Sample Method: low flow Rate (gpm): 0.09 Time Start: 9:20 Time End: 9:40
 * Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	9.19	±0.1	Y / N
Conductivity	601.90	3%	Y / N
Temp (deg C)	7.25	3%	Y / N
Dissolved Oxygen	0.09	10%	Y / N
Turbidity		10%	Y / N
Oxidation/Reduction Potential	213.9	±10	Y / N
DTW Stabilized	32.42	feet	Y / N
Final H2O level	32.42	feet	

If Low Flow Met? Drawdown greater than 0.33 ft? Y / N If yes, required pump vol (gal): 1.89 Actual vol. pumped (gal) ~2.5
 * See Field Volume Guide following stabilization

O/G visible: Y / N Turbid? Y / N
 Equipment Decontaminated: Y / N
 Decontamination procedure used: Triple Rinse, Accuracy

Weather: 50°F, Sunny

Signature: [Signature]

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:
 1 ft³ = 7.48 gal
 1 gal = 3.785 L

Show Calculations:
0.45 + 1.14 + 0.30 = 1.89

QC: T. Ford.



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley

Date: 6/5/25

Technician: T. Reed

Quarter: 2

Static Water Level (DTW): 31.41

Well ID: GUMMER 37B

Is well Dry? NO

If so Dry at: —

Well Depth (TD): 74.89
feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/l	ORP	Notes
9:20			8.09	2127	7.9	0.71	-367.0	
9:25	31.44	0.03	8.11	2175	8.0	0.53	-393.9	
9:30	31.46	0.02	8.14	2167	8.2	0.34	-408.7	
9:35	31.46	0.00	8.15	2147	8.2	0.31	-411.5	
9:40	31.46	0.00	8.14	2148	8.2	0.27	-409.6	
Total Drawdown								
0.05								

Sample Method: Low Flow Rate (gpm): 0.05 Time Start: 9:20 Time End: 9:40
* Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	8.14	±0.1	Y / N
Conductivity	2148	3%	Y / N
Temp (deg C)	8.2	3%	Y / N
Dissolved Oxygen	0.27	10%	Y / N
Turbidity	—	10%	Y / N
Oxidation/Reduction Potential	-409.6	±10	Y / N
DTW Stabilized	31.46	feet	Y / N
Final H2O level	31.46	feet	—

If Low Flow Met? Drawdown greater than 0.33 ft? Y / N If yes, required pump vol (gal): — Actual vol. pumped (gal) ~1 gal
* See Field Volume Guide

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

Equipment Decontaminated: Y / N
Decontamination procedure used: Triple Rinse liquid kar

Weather: 50° F Sunny

Signature: [Signature]

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:

QC: [Signature]

Groundwater Sampling Log

Is well Dry?

Well Depth (TD):
feet

If so Dry at:

[illegible]

9:40

* Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	±0.1	Y / N	
Conductivity	3%	Y / N	
Temp (deg C)	3%	Y / N	
Dissolved Oxygen	10%	Y / N	
Turbidity	10%	Y / N	
Oxidation/Reduction Potential	±10	Y / N	
DW Stabilized	feet	Y / N	
Final H2O level	feet		

Actual vol. pumped (gal)

following stabilization

Y / (N)

Decontamination procedure used:

Signature:

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: $h(ft) = \text{Total Depth}(TD)(ft) - \text{Depth to Water}(DTW)(ft)$

Well Volume Purge Method: *Three Well Volumes = 3*V*

Conversions:

$$1 \text{ ft}^3 = 7.48 \text{ gal}$$
$$1 \text{ gal} = 3.785 \text{ L}$$

Show Calculations:

Notes: Duplicate of Gumm-374.

Groundwater Sampling Log

6/5/25

2

OSABH-17

39

Well Depth (TD):
feet

Defy

Time End:

Final Parameter	Stabilization Guidance	Met?	Comments
pH	±0.1	Y / N	
Conductivity	3%	Y / N	
Temp (deg C)	3%	Y / N	
Dissolved Oxygen	10%	Y / N	
Turbidity	10%	Y / N	
Oxidation/Reduction Potential	±10	Y / N	
DTW Stabilized	feet	Y / N	
Final H2O level	feet		

Actual vol. pumped (gal)

following stabilization

$$\frac{F}{N}$$
~~Y/N~~

Decontamination procedure used:

49° F, Sunny

[Signature]

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: $h(ft) = \text{Total Depth}(TD)(ft) - \text{Depth to Water}(DTW)(ft)$

Well Volume Purge Method: $Three\ Well\ Volumes = 3 \cdot V$

Conversions:

$$1 \text{ ft}^3 = 7.48 \text{ gal}$$

Show Calculations:



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grass Valley

Date: 6/9/25

Technician: J. Cranford

Quarter: 2

Static Water Level (DTW): _____

Well ID: OSABH-14

Is well Dry? Yes

If so Dry at: 20

Well Depth (TD): 79
feet

[illegible]

Sample Method: Rate (gpm): Time Start: Time End:

* Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH		±0.1	Y / N
Conductivity		3%	Y / N
Temp (deg C)		3%	Y / N
Dissolved Oxygen		10%	Y / N
Turbidity		10%	Y / N
Oxidation/Reduction Potential		±10	Y / N
DTW Stabilized		feet	Y / N
Final H2O level		feet	

If Low Flow Met¹ Drawdown greater than 0.33 ft? Y / N If yes, required pump vol (gal): _____ Actual vol. pumped (gal) _____
following stabilization

* See Field Volume Guide

* See Field Volume Guide

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

Equipment Decontaminated: ~~Y/N~~

Decontamination procedure used: 19a

Weather: 50°F, sunny

Signature:

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:



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley

Log 6/24/25 - 6/25/25
Date: _____

Technician: J. Crawford

Quarter: 2

Static Water Level (DTW): 30.42

Well ID: OSABH - 16

Is well Dry? no

If so Dry at: _____

Well Depth (TD): 75.00
feet

[illegible]

Sample Method: low flow PFR Rate (gpm): 0.212 ⁵¹²⁴ Time Start: 12:10 Time End: 1:15 ⁵¹²⁵

Final Parameter	Stabilization Guidance	Met?	Comments
pH		±0.1	Y / N
Conductivity		3%	Y / N
Temp (deg C)		3%	Y / N
Dissolved Oxygen		10%	Y / N
Turbidity		10%	Y / N
Oxidation/Reduction Potential		±10	Y / N
DTW Stabilized		feet	Y / N
Final H2O level		feet	

If Low Flow Met: Drawdown greater than 0.33 ft? ~~Y~~ ~~N~~ If yes, required pump vol (gal): Actual vol. pumped (gal)
 * See Field Volume Guide following stabilization

O/G visible: Y / ☒ N Turbid? Y / ☒ N
Equipment Decontaminated: ☒ Y / N
Decontamination procedure used: Tripple rinse, Aiclenox

Weather: 63°F, Cloudy
Signature: [Signature]

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: $30.70 - 46.00 - 30.42 = 9.58$ $9.58 \times 0.9 = 8.62$ $40 - 8.62 = 31.38\ min\ DTW$

Notes:
No sample taken
Did not meet 40% of Recharge.



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley Date: 6/23/25
 Technician: J. Cranford Quarter: 2
 Static Water Level (DTW): 15.11 Well ID: 054B:H-17
 Is well Dry? NO If so Dry at: — Well Depth (TD): 30.35
 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
12:00			2.46	17235	8.35	1.15	574.0	
12:05	15.19	0.08	3.00	17345	7.69	1.10	581.7	
12:10	15.21	0.03	3.04	17339	7.59	1.02	578.3	0.04 gpm
12:15	15.24	0.03	3.07	17325	7.66	0.89	572.1	
12:20	15.25	0.01	3.09	17365	7.43	0.84	573.1	
12:25	15.27	0.02	3.10	17373	7.20	0.86	574.1	
12:30	15.28	0.01	3.12	17379	7.18	0.91	571.0	
12:35	15.29	0.01	3.13	17300	7.40	0.90	568.8	
12:40	15.29	0.00	3.13	17285	7.53	0.85	573.2	
12:45	15.29	0.00	3.14	17252	7.60	0.83	569.7	
		Total drawdown						
		0.19						

Sample Method: low-flow Rate (gpm): 0.04 Time Start: 12:00 Time End: 12:45
 * Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	3.14	Y/N	
Conductivity	17252	Y/N	
Temp (deg C)	7.60	Y/N	
Dissolved Oxygen	0.83	Y/N	
Turbidity		Y/N	
Oxidation/Reduction Potential	569.7	Y/N	
DTW Stabilized	15.29	Y/N	
Final H2O level	15.29	Y/N	

If Low Flow Met: Drawdown greater than 0.33 ft? Y (N) If yes, required pump vol (gal): — Actual vol. pumped (gal): ~ 3
 * See Field Volume Guide following stabilization

O/G visible: Y (N) Turbid? Y (N)
 Equipment Decontaminated: Y (N)
 Decontamination procedure used: Triple rinse, Alconox

Weather: 58°F, Sunny

Signature: [Signature]

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:

QC: T. Fred

Groundwater Sampling Log

Grassy Valley

6/5/25

1. Cranford

2

05ABH-18

yes

52

Well Depth (TD):
feet

Time End:

Final Parameter	Stabilization Guidance	Met?	Comments
pH	±0.1	Y / N	
Conductivity	3%	Y / N	
Temp (deg C)	3%	Y / N	
Dissolved Oxygen	10%	Y / N	
Turbidity	10%	Y / N	
Oxidation/Reduction Potential	±10	Y / N	
OTW Stabilized	feet	Y / N	
Final H2O level	feet		

~~Y / N~~

Actual vol. pumped (gal)

* See Field Volume Guide

following stabilization

$\frac{Y}{y} \times \frac{N}{n}$

~~X / N~~

~~Y/N~~ Sc Sc

after Triple rinse, AlCl₃NO₂

52° F, Sunny

[Signature]

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: $h(ft) = \text{Total Depth}(TD)(ft) - \text{Depth to Water}(DTW)(ft)$

Well Volume Purge Method: *Three Well Volumes = 3*V*

Conversions:

Show Calculations:

$$1\text{ft}^3 = 7.48\text{ gal}$$
$$1\text{ qal} = 3,785\text{ L}$$

Groundwater Sampling Log

log 6/23/25
Date: _____

Quarter: 2

Well ID: OSABH-117 F

Is well Dry? no If so Dry at: ✓ Well Depth (TD): 30, 35
feet

Sample Method: low-flow Rate (gpm): 0.04 Time Start: 12:45 Time End: 12:45
* Flow rate of stabilization (during sample collection)

If Low Flow Metri: Drawdown greater than 0.33 ft? Y / N If yes, required pump vol (gal): _____ Actual vol. pumped (gal) 3
* See Field Volume Guide following stabilization

O/G visible: $\frac{Y}{Y} / \frac{N}{N}$ Turbid? $\frac{Y}{Y} / N$
 Equipment Decontaminated: $\frac{Y}{Y} / N$
 Decontamination procedure used: Triple rinse, alcohol

Weather: 58°F, Sunny
Signature: [Signature]

Notes: Duplicate of OSABH-17

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

Location: RB-0605

Date: 6/5/25

Technician: J. Cranford

Quarter: 2

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	Chlorine
1:50	5.32	13.84	14.6	3cl	—

Sample Method: grab

Oil/Gas visible [Y / ☒ N]

Turbid [Y / ☒ N]

Clear [☒ Y / N]

Weather: 54°F Sunny

Signature:



Comments / Notes:

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

QC: T. Reed



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

Location: RB-0626 **Date:** 6/26/25

Technician: J. Cronford **Quarter:** 2

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
3:10	5.46	1455	18.7	274

Sample Method: Grab

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

Turbid [Y/~~N~~]

Clear [~~Y~~/N]

Weather: 69° F Sunny

Signature: [Signature]

Comments / Notes:

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

QC: T. Reed



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

Location: Seep-1 **Date:** 6/25/15

Technician: J. Orenford **Quarter:** 2

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
10:03	2.58	31.74	15.4	498

Sample Method: grab

Oil/Gas visible ☒ Y ☐ N

Turbid ☒ Y ☐ N

Clear ☐ Y ☒ N

Weather: 58° F Overcast

Signature: 

Comments / Notes:

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

QC: T. Reed



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

Location: ScRP-2 **Date:** 6/15/25

Technician: J. Cranford **Quarter:** 2

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
10:06	2.63	34.46	15.7	469

Sample Method: grab

Oil/Gas visible ☒ [Y] ☐ [N]

Turbid ☒ [Y] ☐ [N]

Clear ☐ [Y] ☒ [N]

Weather: 58° F Overcast

Signature: _____

Comments / Notes:

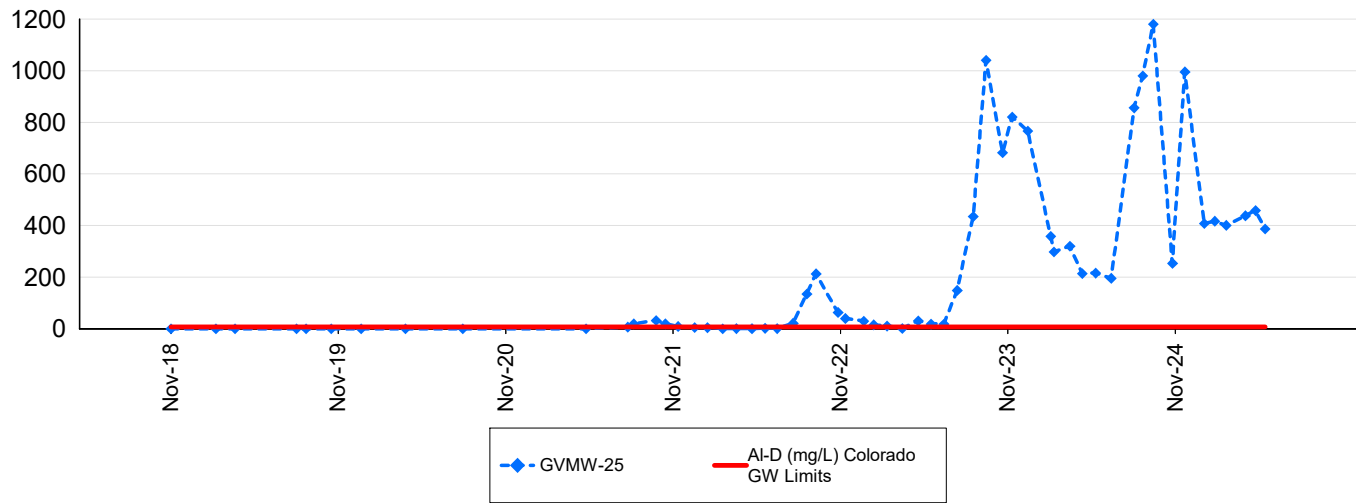
Field Parameters (pH, Conductivity, Temperature, and ORP) must be analyzed within 15 minutes of sample collection.

QC: T. Reed

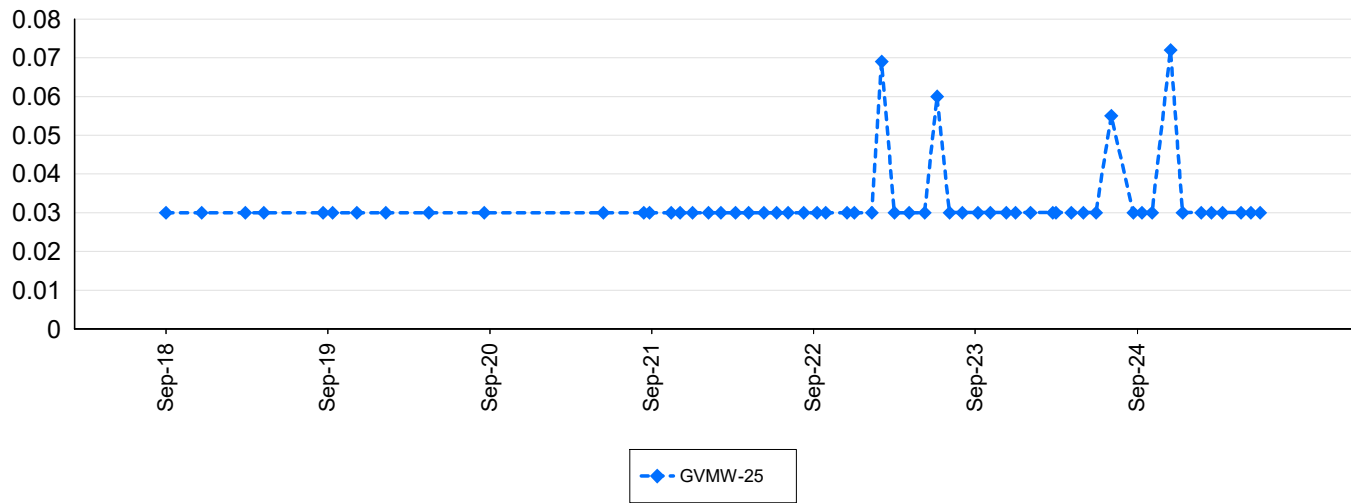
Attachment 4

GVMW-25 Historical Graphs

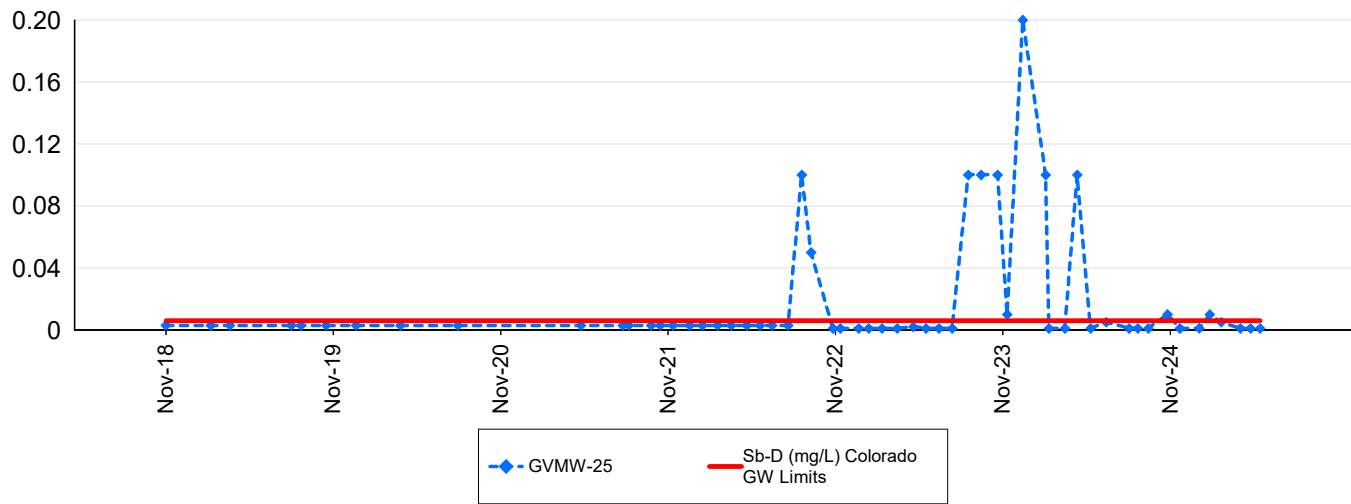
: Aluminium - Dissolved (mg/L)



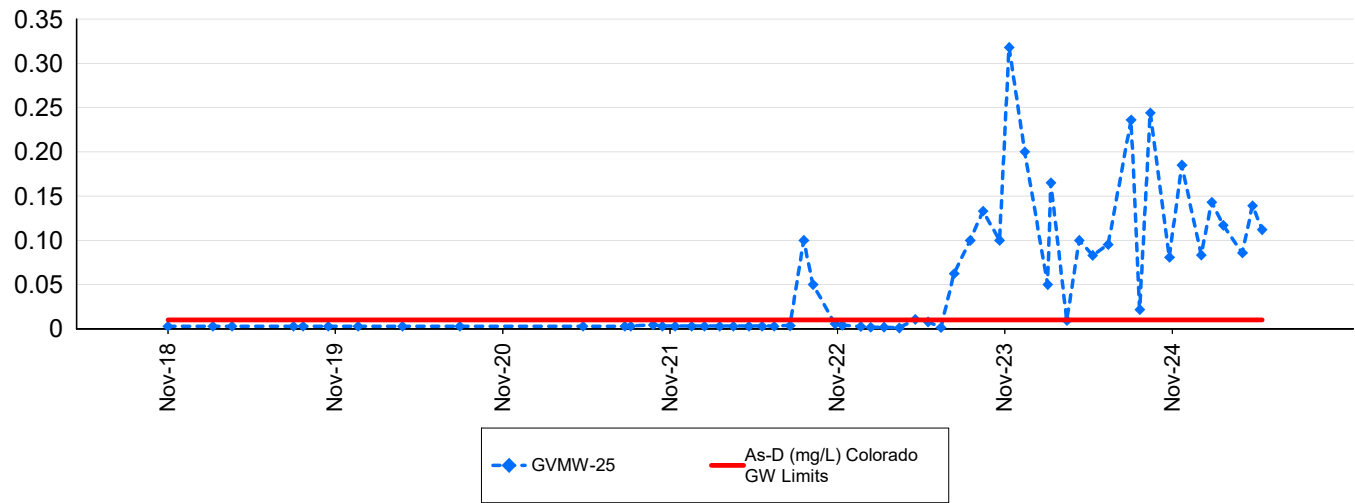
: Ammonia (mg/L)



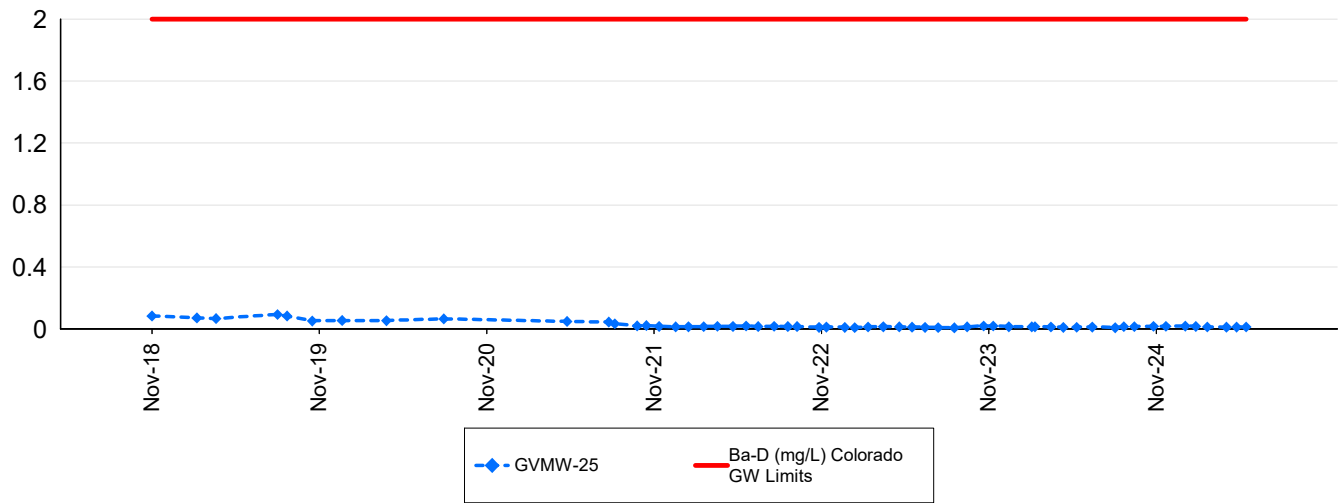
: Antimony - Dissolved (mg/L)



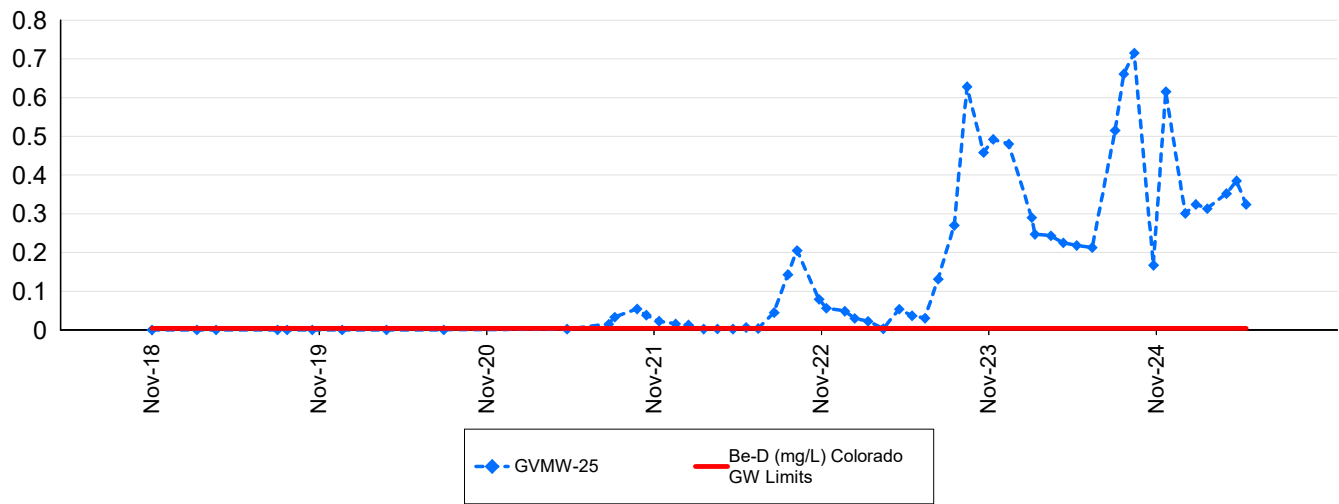
: Arsenic - Dissolved (mg/L)



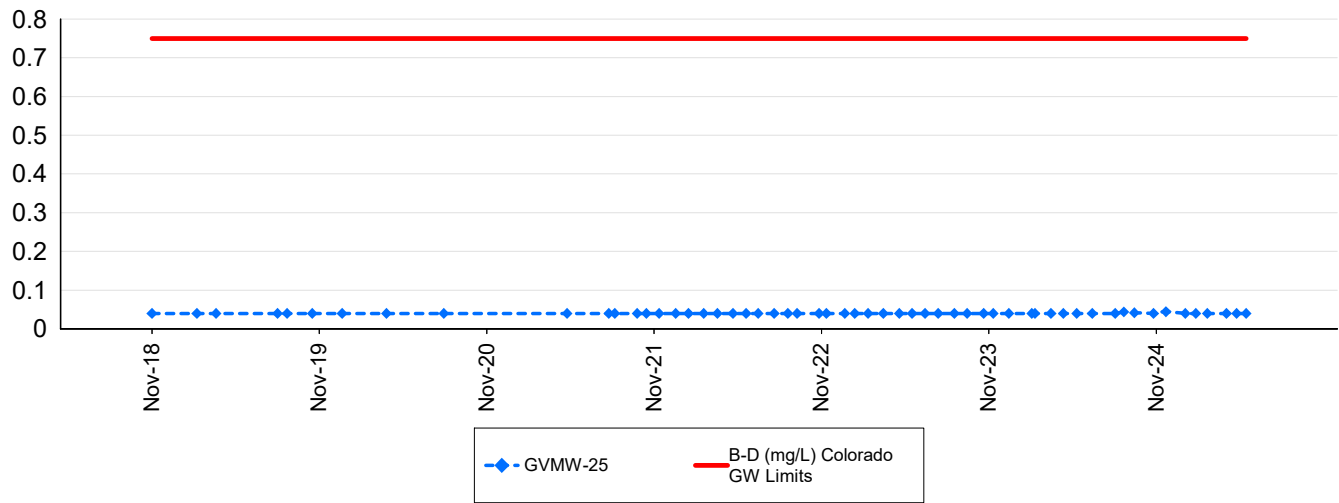
: Barium - Dissolved (mg/L)



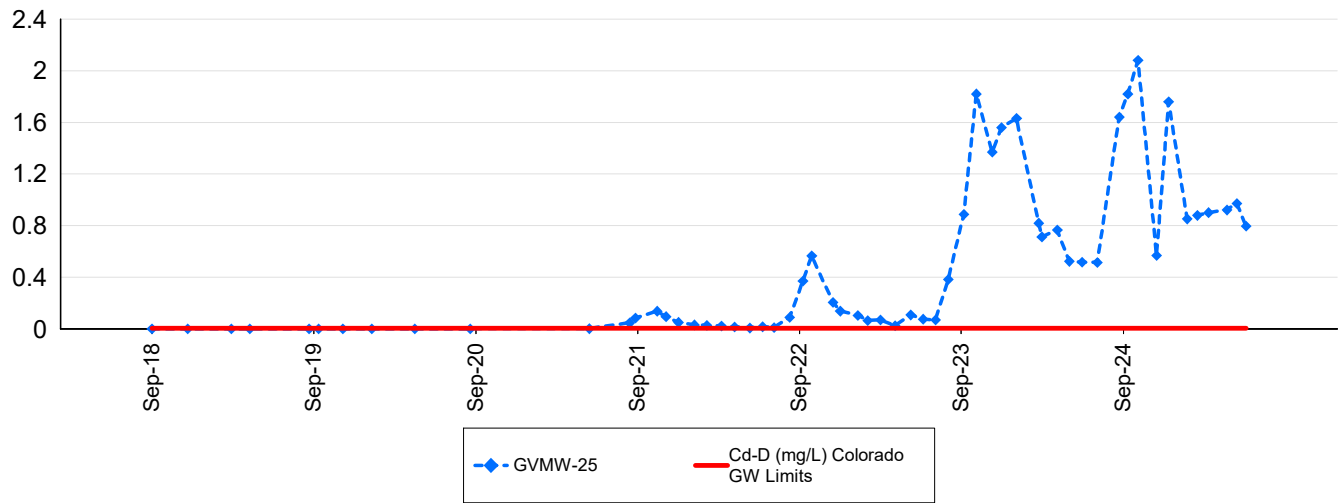
: Beryllium - Dissolved (mg/L)



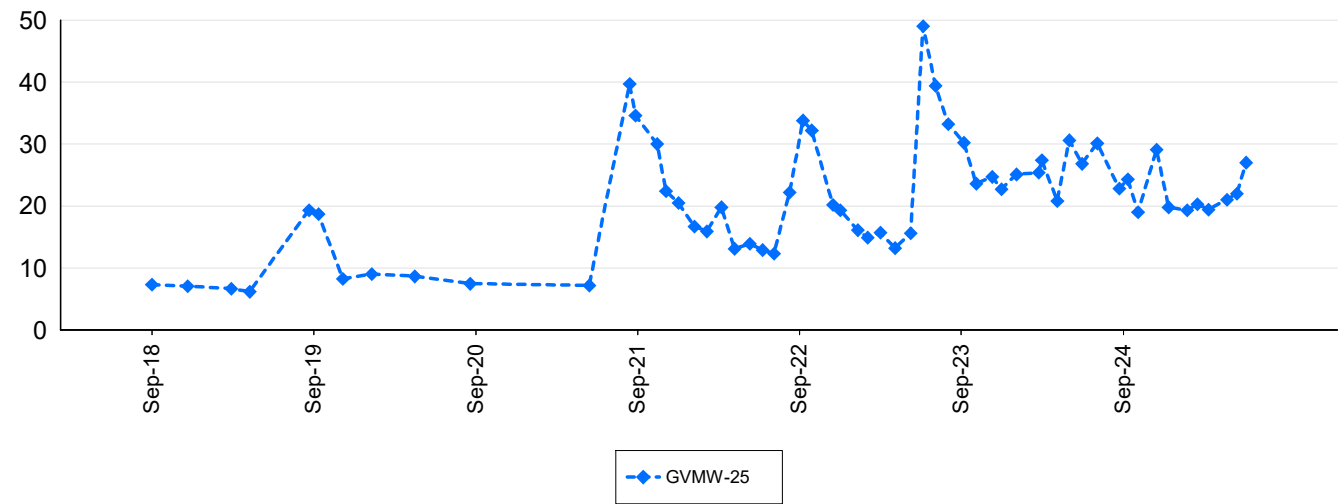
: Boron - Dissolved (mg/L)



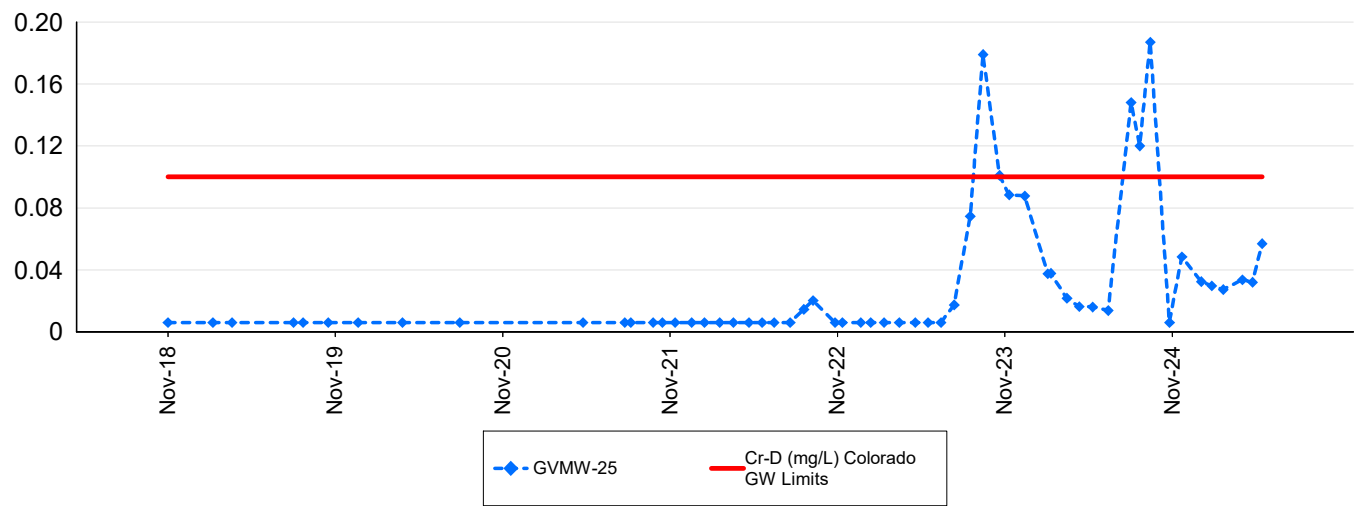
: Cadmium - Dissolved (mg/L)



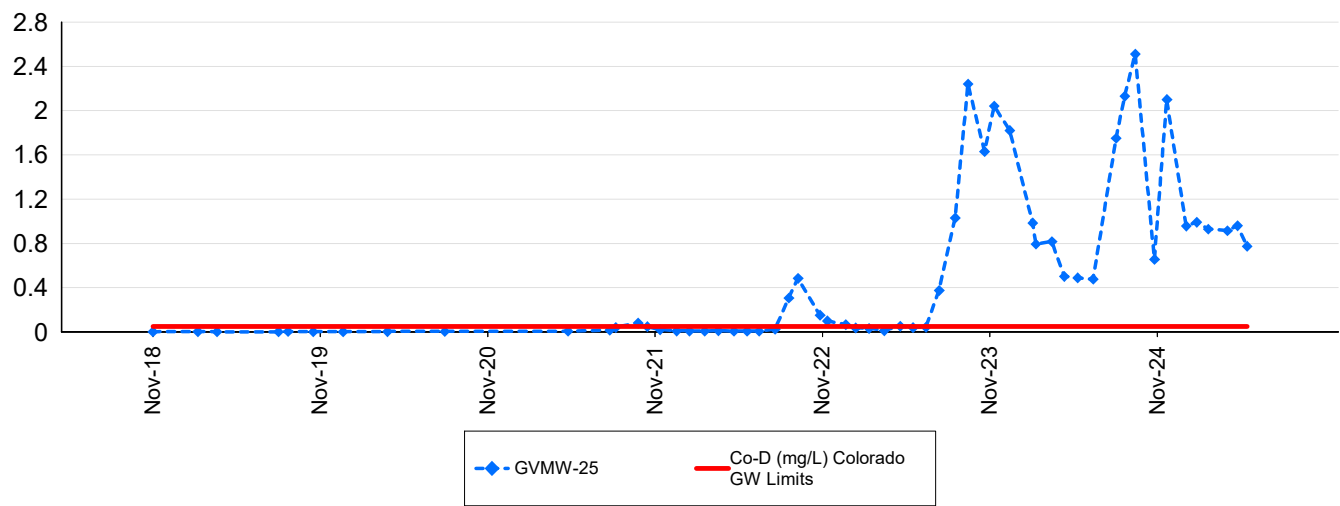
: Chloride - Total (mg/L)



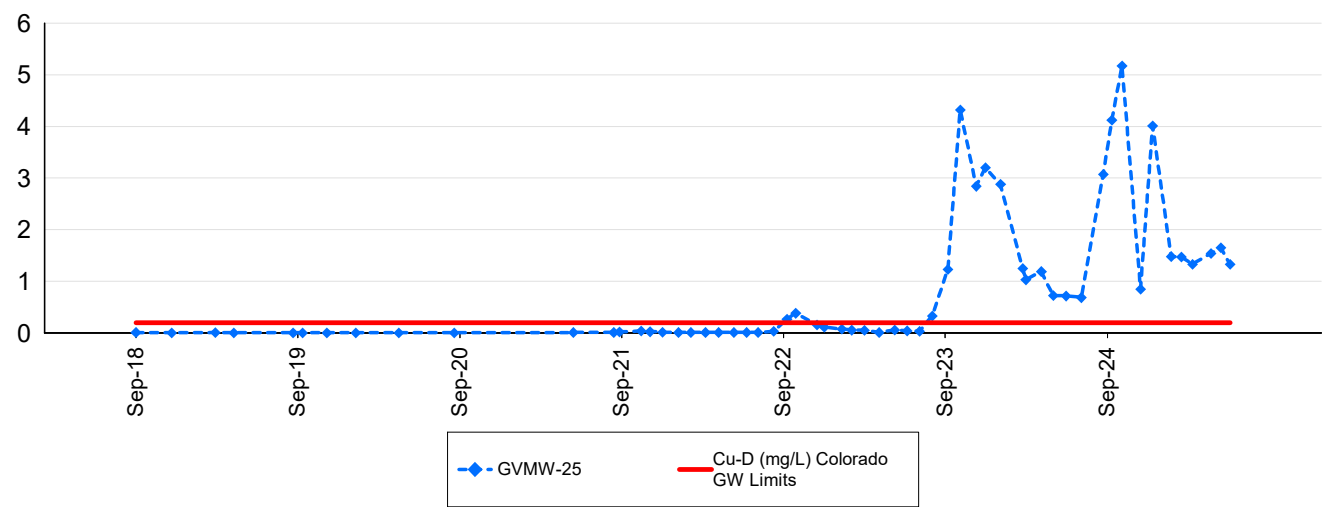
: Chromium - Dissolved (mg/L)



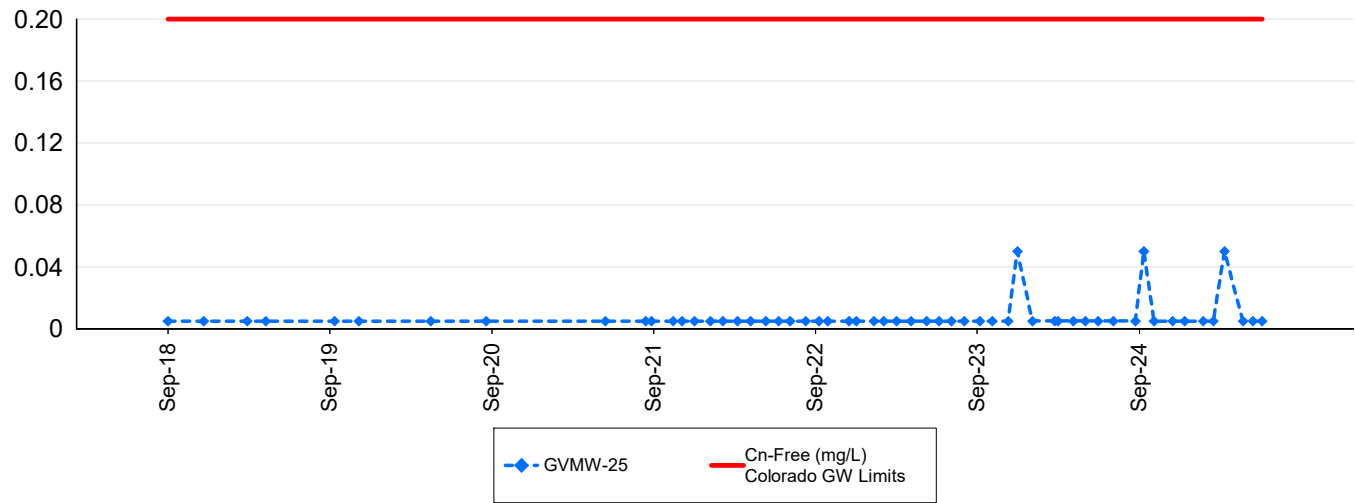
: Cobalt - Dissolved (mg/L)



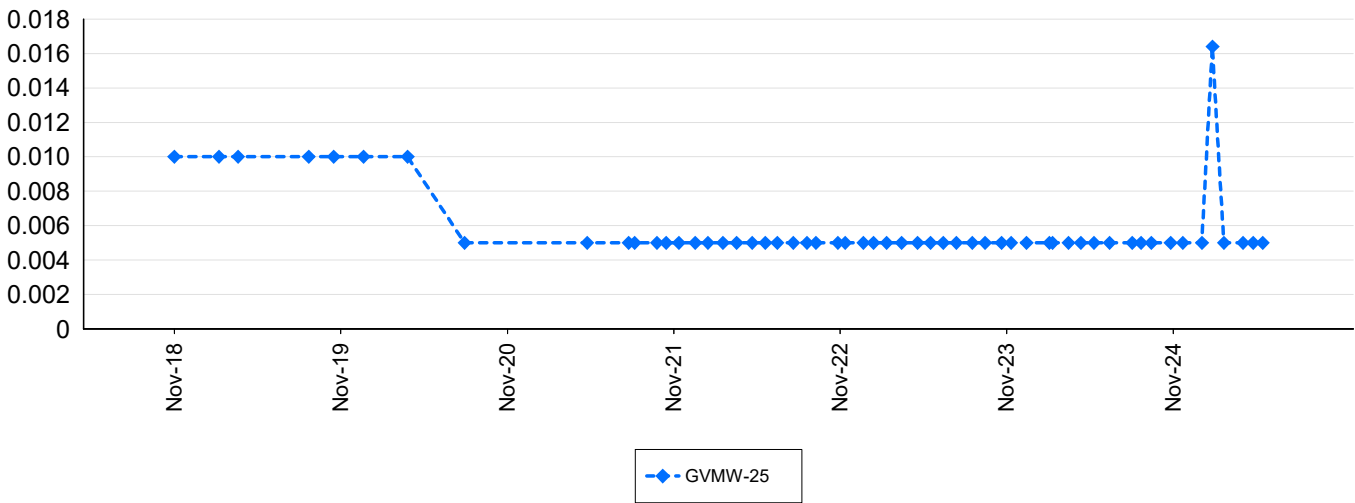
: Copper - Dissolved (mg/L)



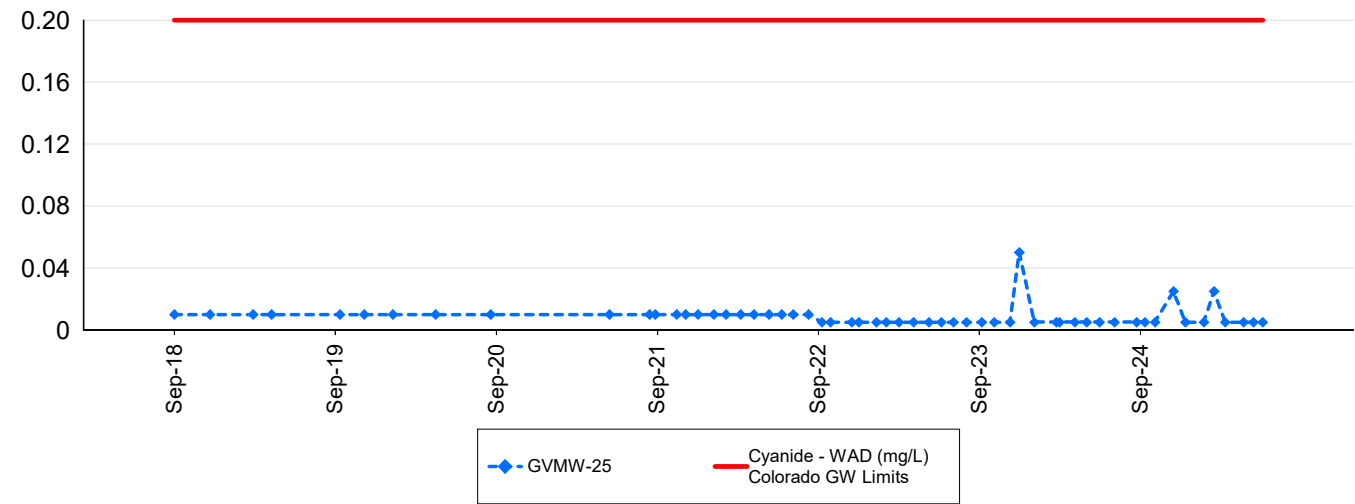
: Cyanide - Free (mg/L)



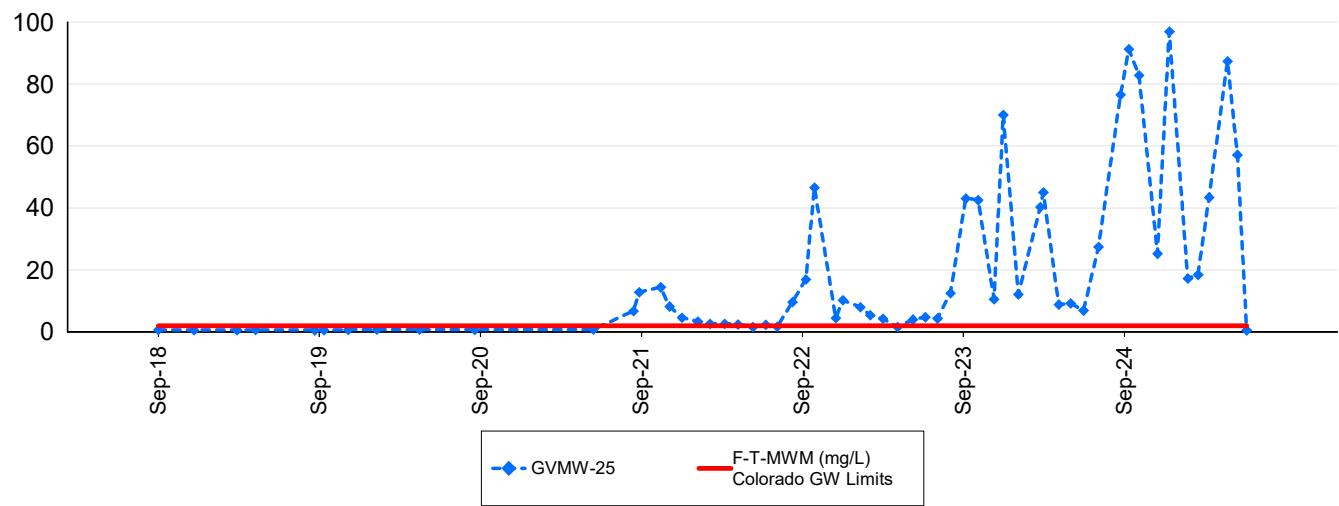
: Cyanide - Total (mg/L)



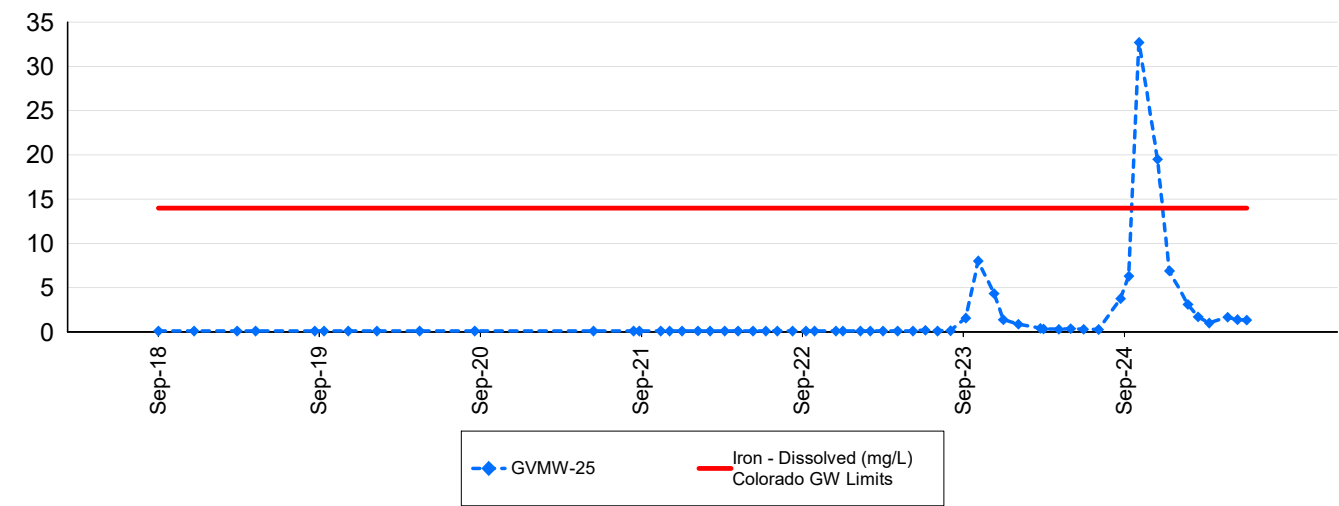
: Cyanide - WAD (mg/L)



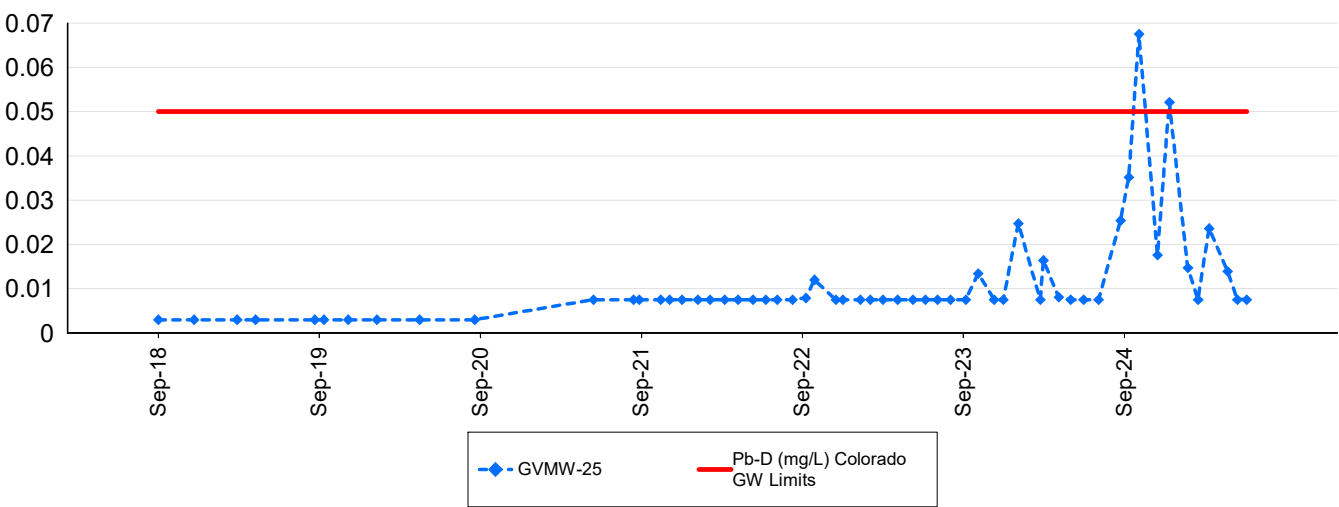
: Fluoride - Total F (mg/L)



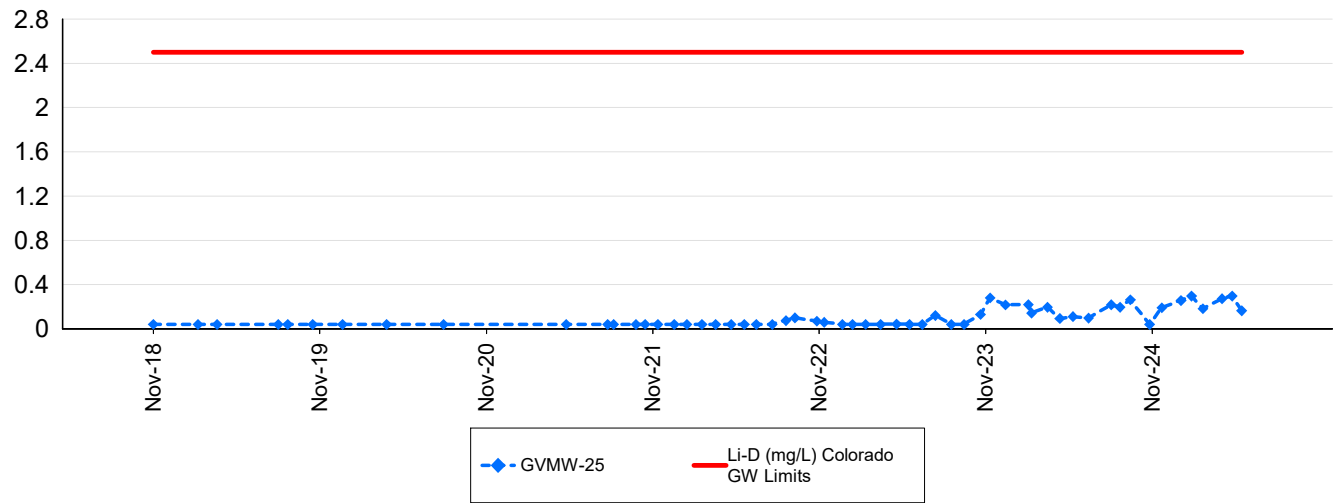
: Iron - Dissolved (mg/L)



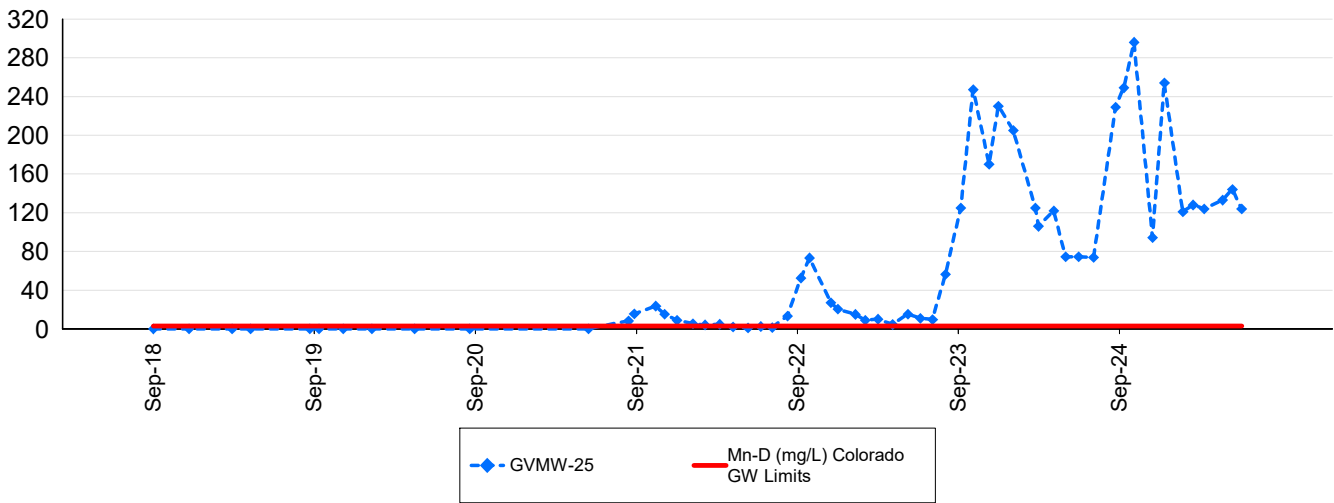
: Lead - Dissolved (mg/L)



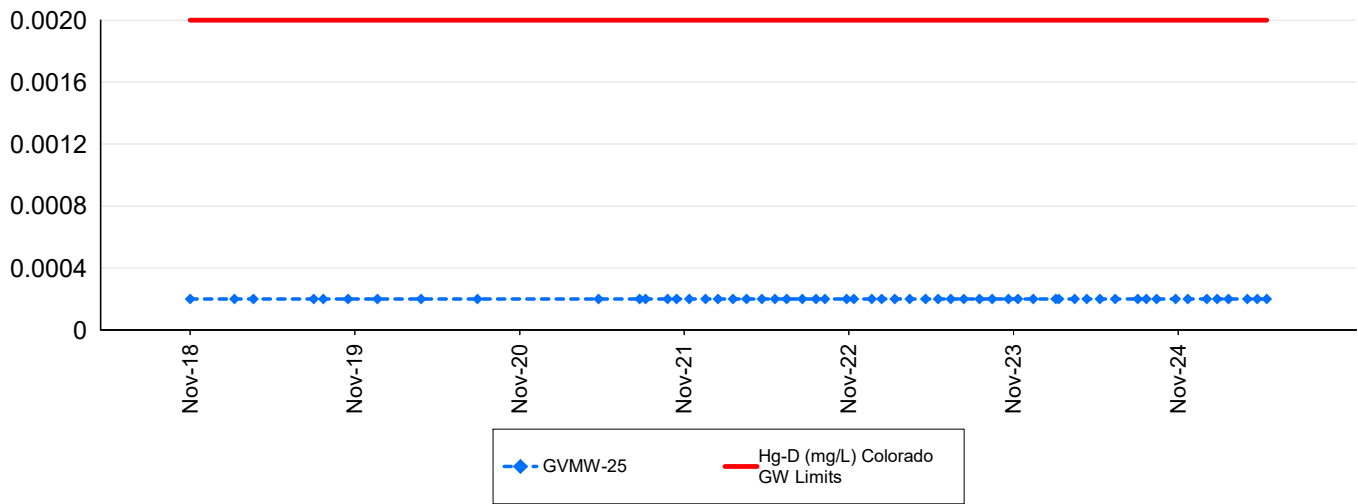
: Lithium - Dissolved (mg/L)



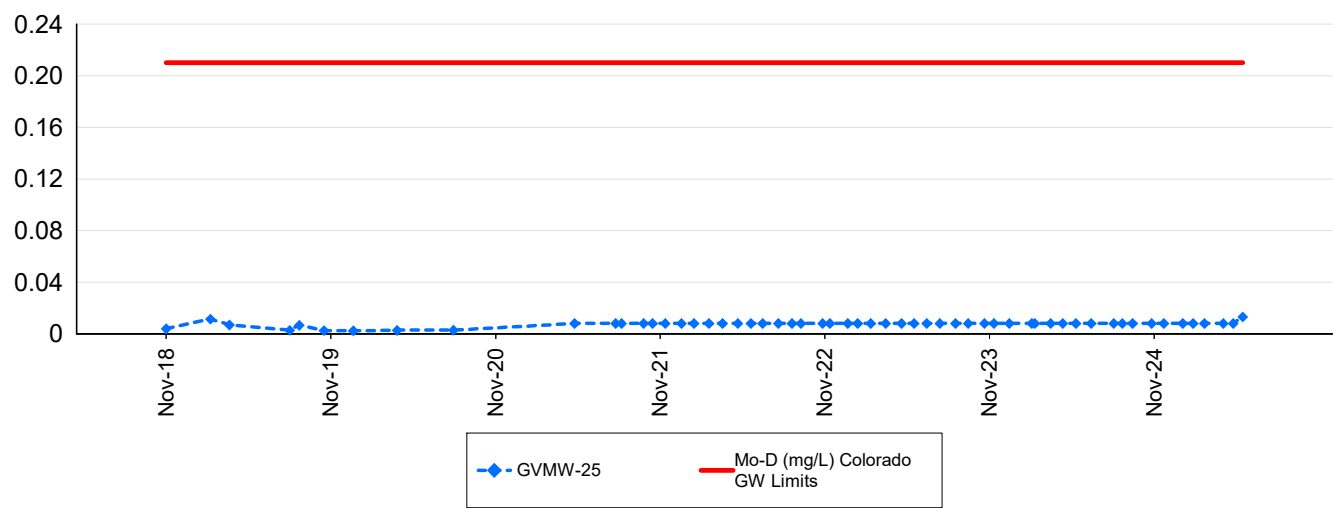
: Manganese - Dissolved (mg/L)



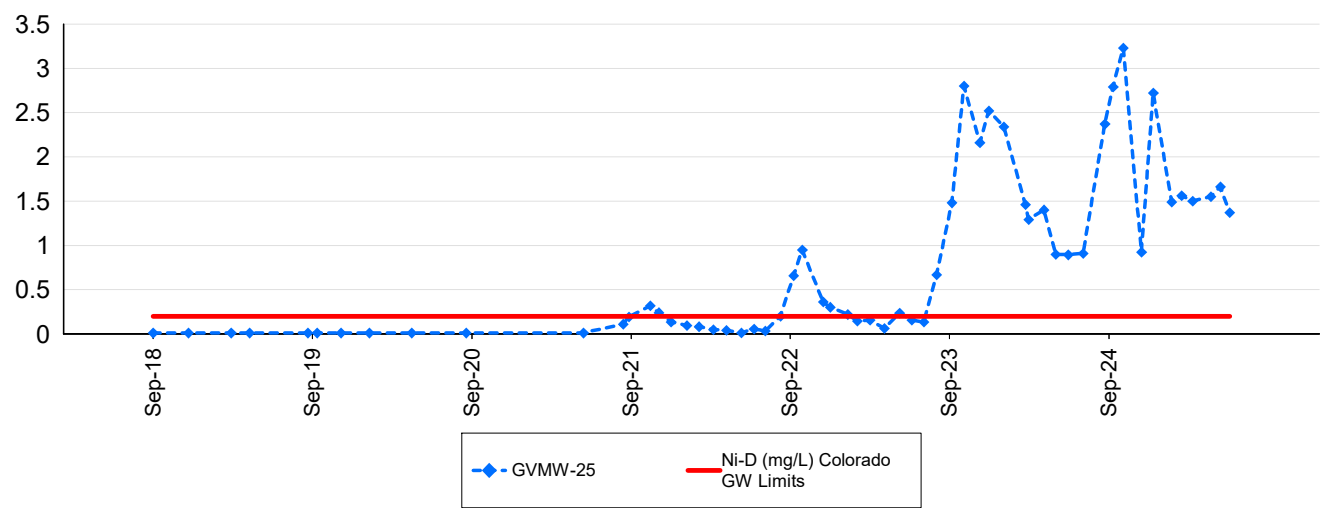
: Mercury - Dissolved (mg/L)



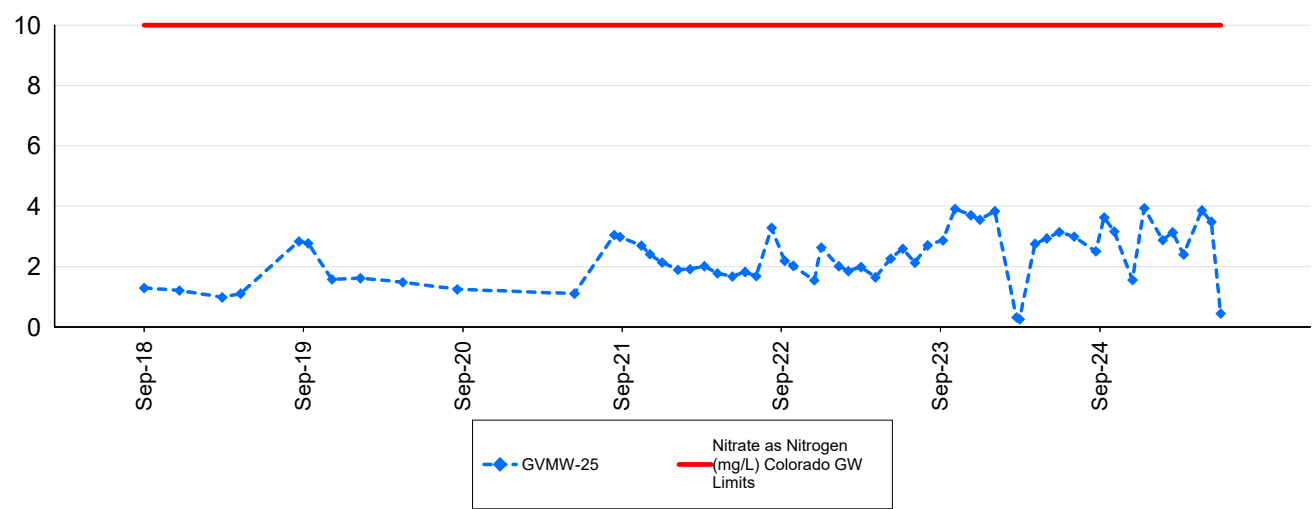
: Molybdenum - Dissolved (mg/L)

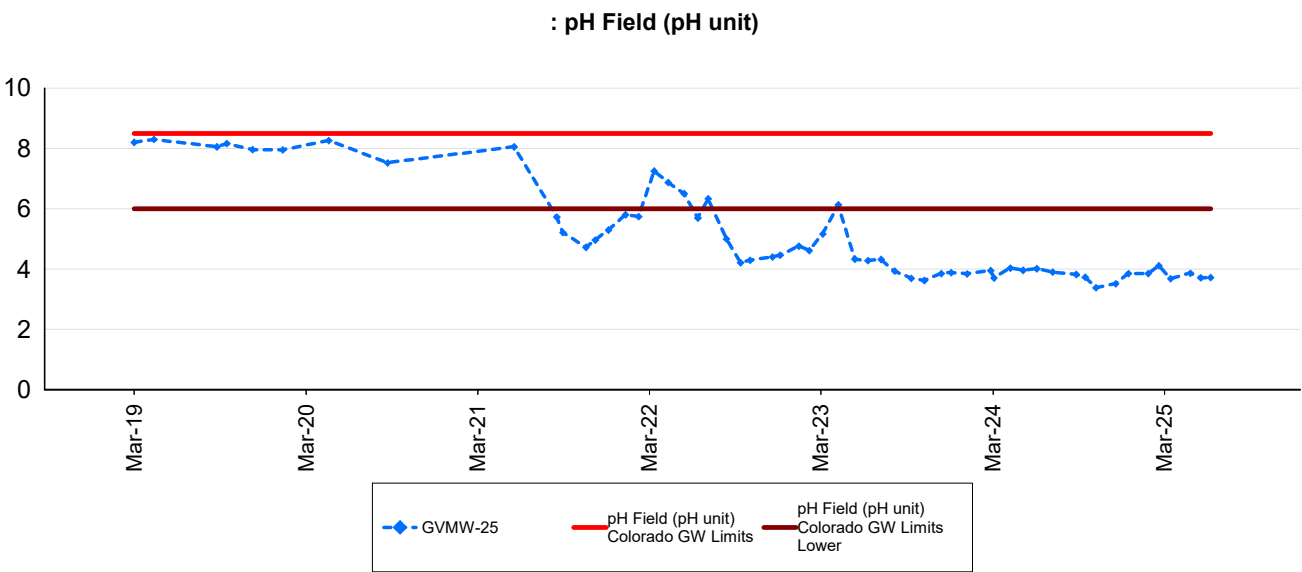
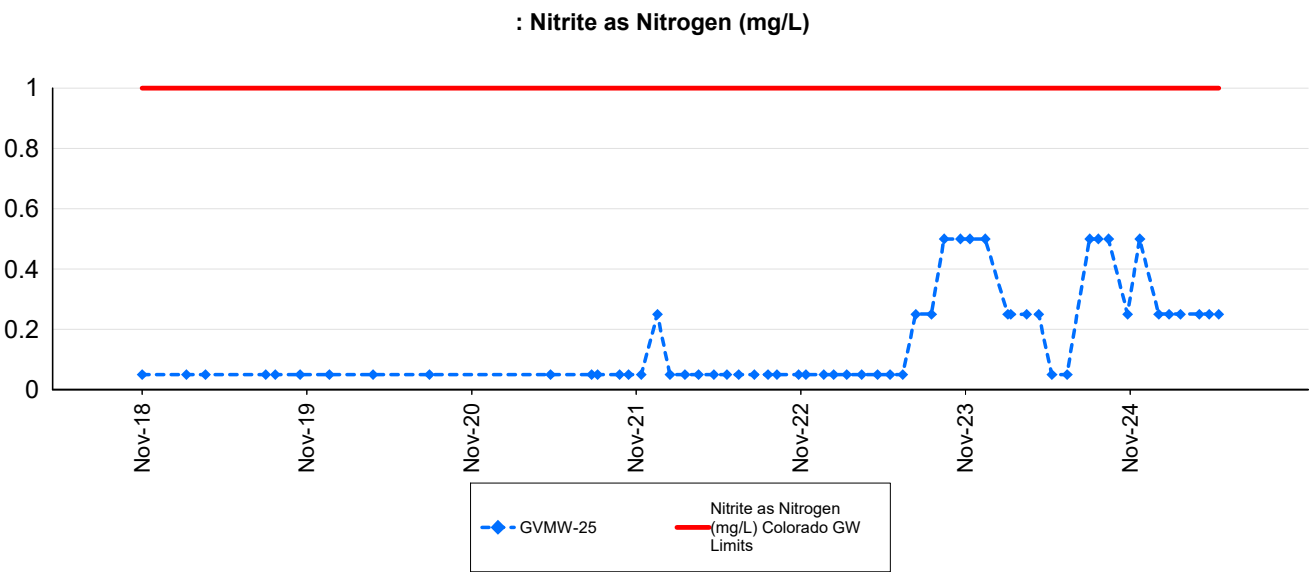
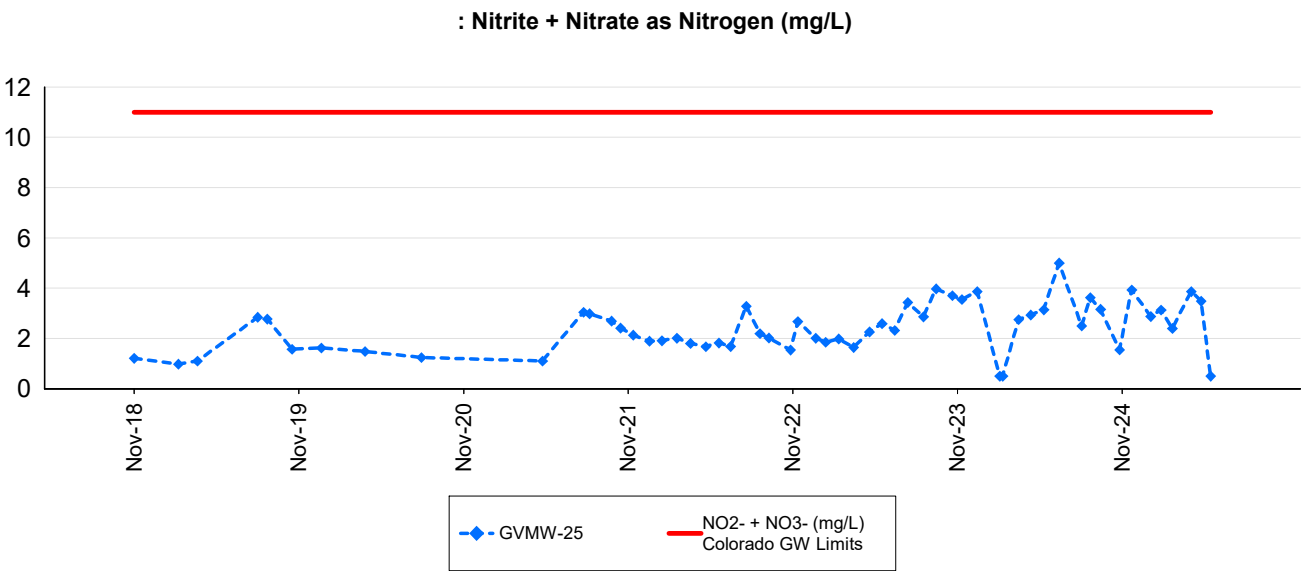


: Nickel - Dissolved (mg/L)

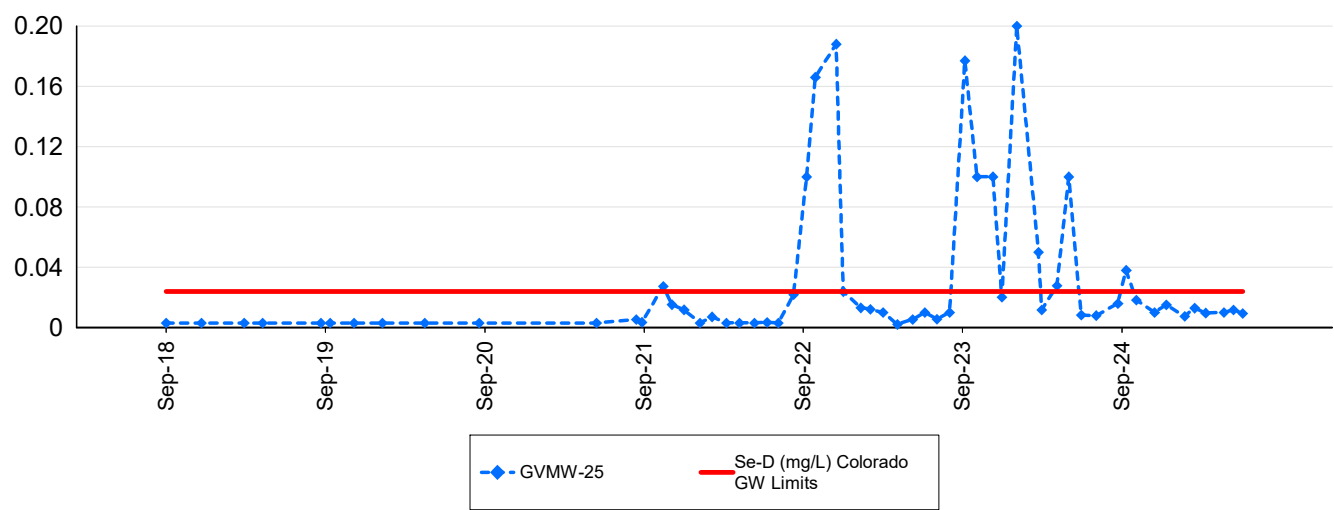


: Nitrate as Nitrogen (mg/L)

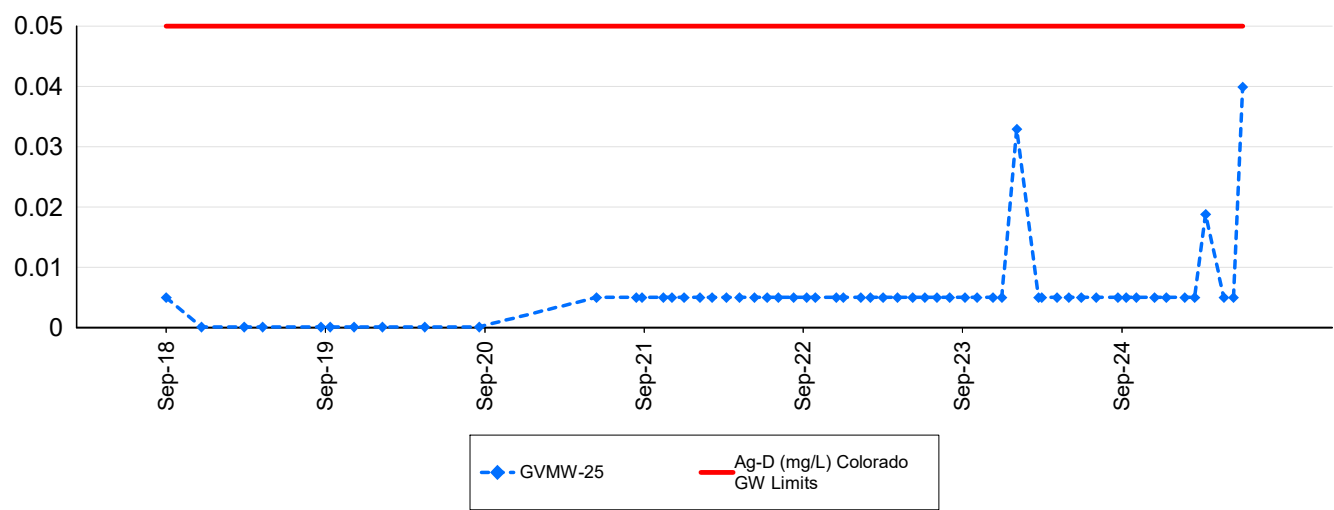




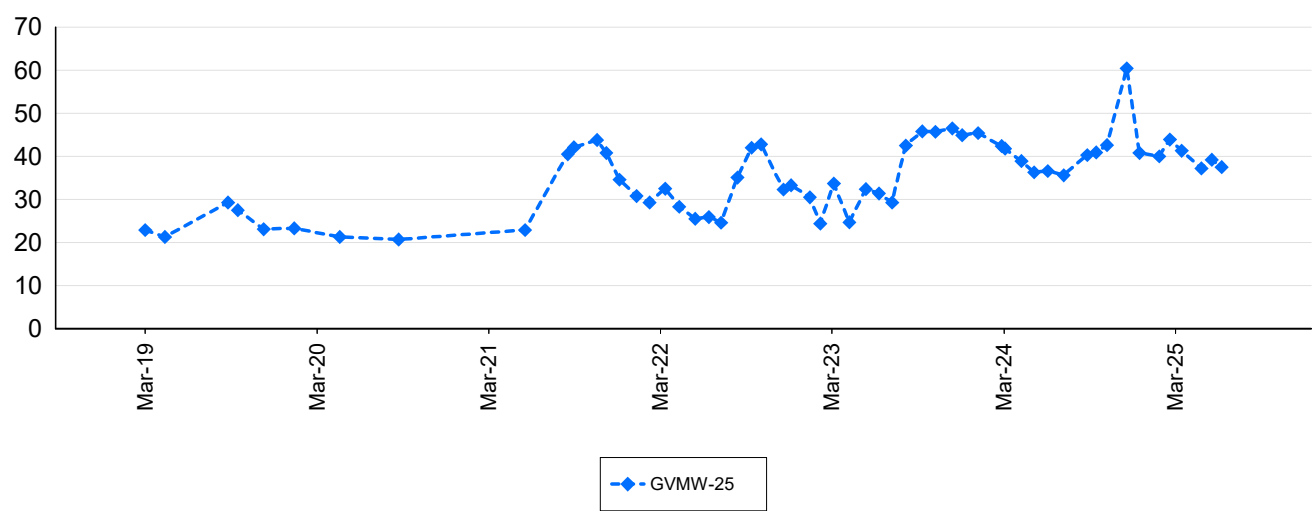
: Selenium - Dissolved (mg/L)



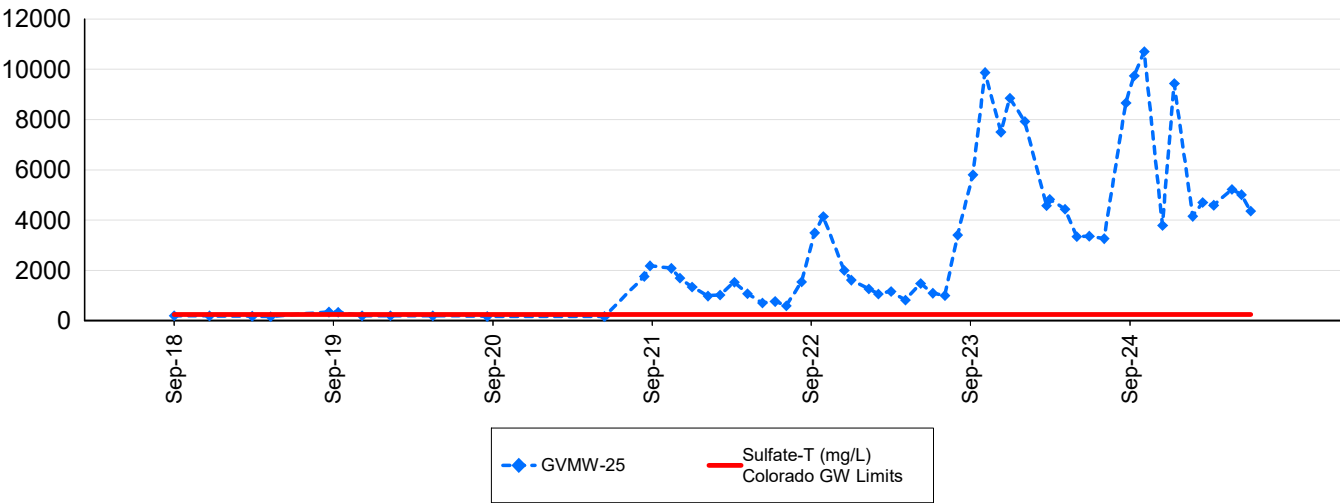
: Silver - Dissolved (mg/L)



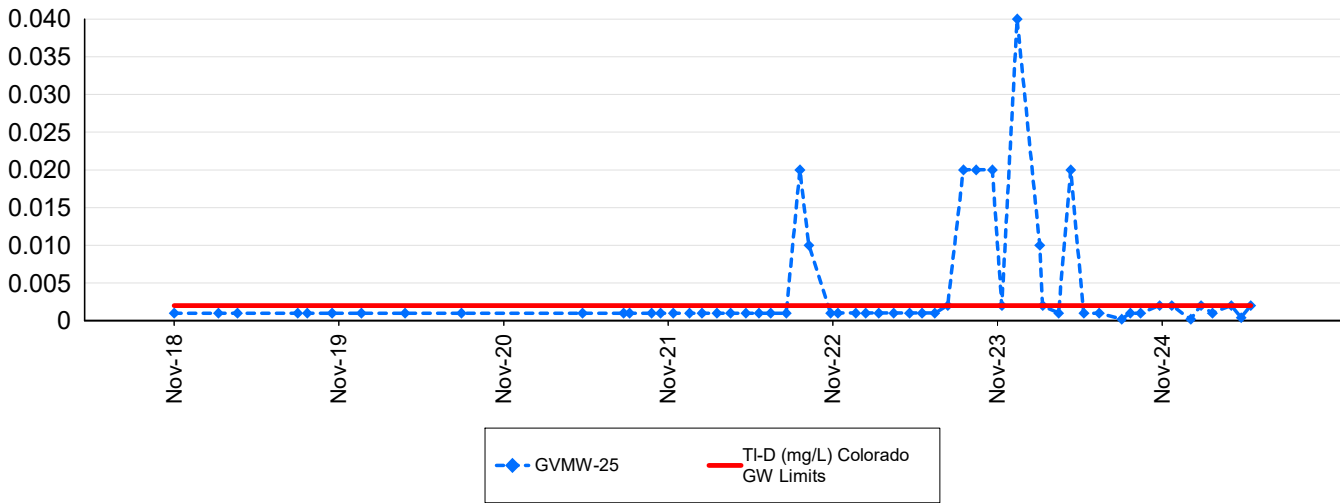
: Sodium - Dissolved (mg/L)



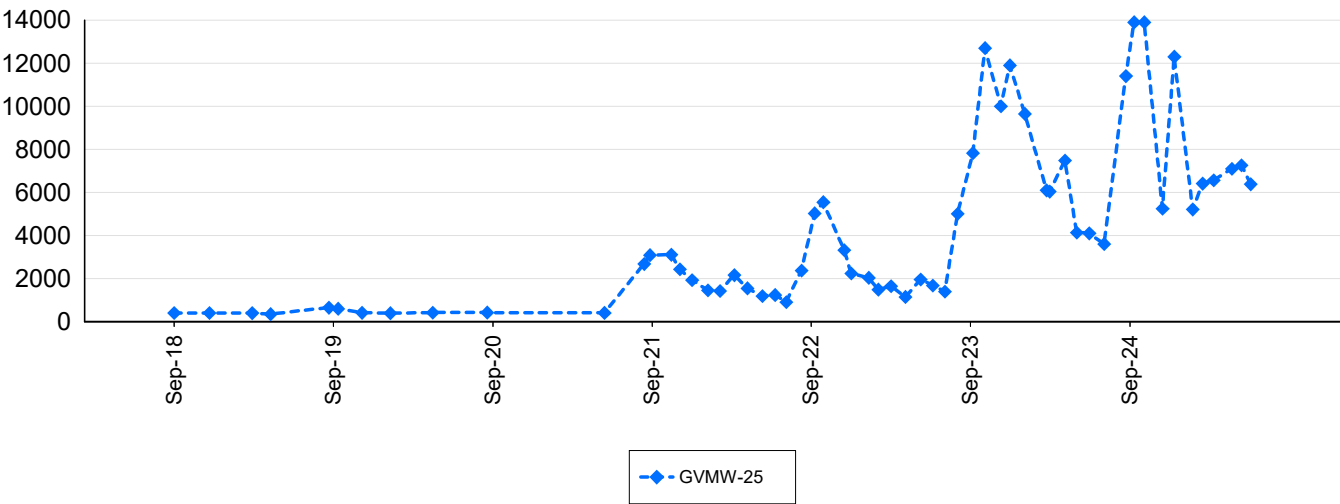
: Sulfate - Total (mg/L)



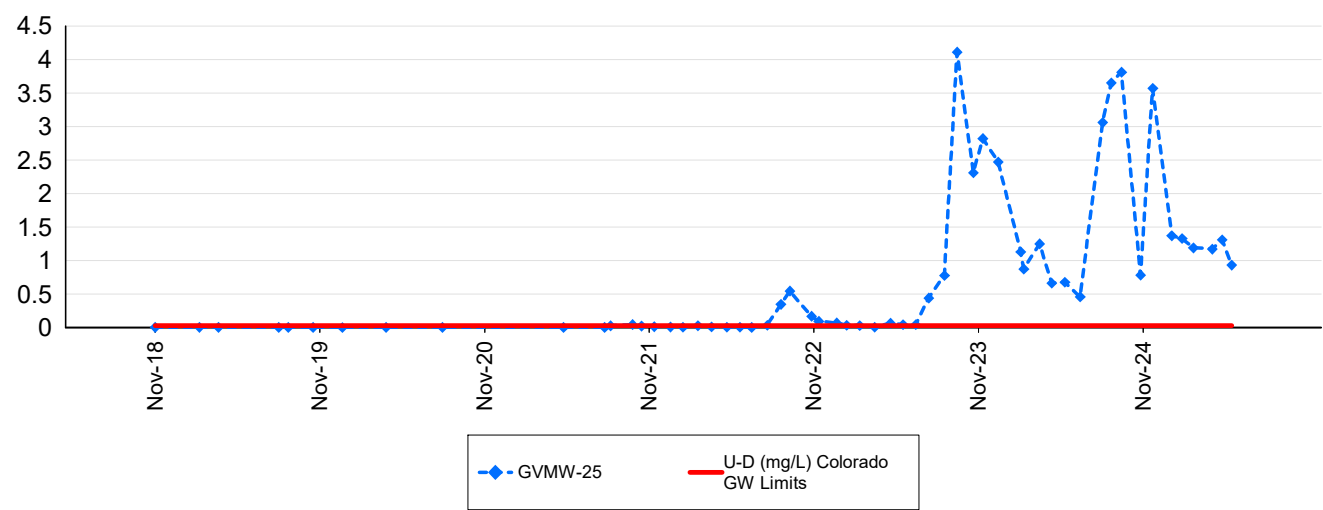
: Thallium - Dissolved (mg/L)



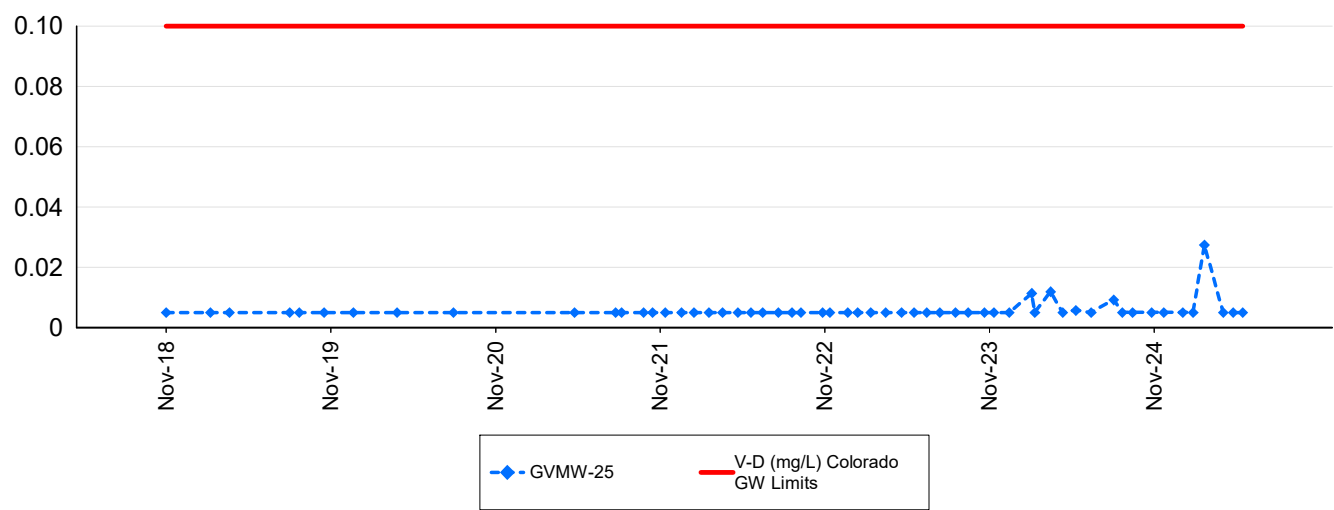
: Total Dissolved Solids (mg/L)



: Uranium - Dissolved (mg/L)



: Vanadium - Dissolved (mg/L)



: Zinc - Dissolved (mg/L)

