



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

September 18, 2025

RE: Monthly Grassy Valley Report August 2025 Submission, September 18, 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 August 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 August 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;
- All 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 3 quality assurance/quality control (QA/QC) samples in August 2025 (included in Attachment 1). Two duplicate samples and one rinse blank sample were collected per section 8.0 of the approved QAPP.

RESULTS

Analytical results are compared to applicable standards in Table 2 for groundwater samples and in Attachment 2 for surface water samples. Complete laboratory analytical reports from the August 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 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, the 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 August concentrations are elevated compared to July 2025. Aluminum, arsenic, beryllium, cadmium, chromium, cobalt, copper, fluoride, manganese, nickel, sulfate, uranium, and zinc concentrations increased relative to July 2025. Ammonia, antimony, boron, cyanide, lead, mercury, nitrite, thallium, and vanadium were not detected in the August 2025 samples.

Water quality at the GVMW-15B, OSABH-16, 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.

Other notable results include:

- Elevated fluoride concentrations at the GVMW-8B and GVMW-22A locations;
- Elevated 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 August 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, GVMW-34, and GVMW-36. Other notable results include:

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

Surface water

Flowing water was observed at the GV-06, GV-4.5 and GV-05 monitoring locations in August 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 phosphorus, total iron and dissolved iron. GV-05 exceeded Regulation 32 standards (Classification and Numeric Standards for Arkansas River Basin) for total iron. Monitoring location GV-06 exceeded Regulation 32 standards (Classification and Numeric Standards for Arkansas River Basin) for total iron and dissolved iron

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

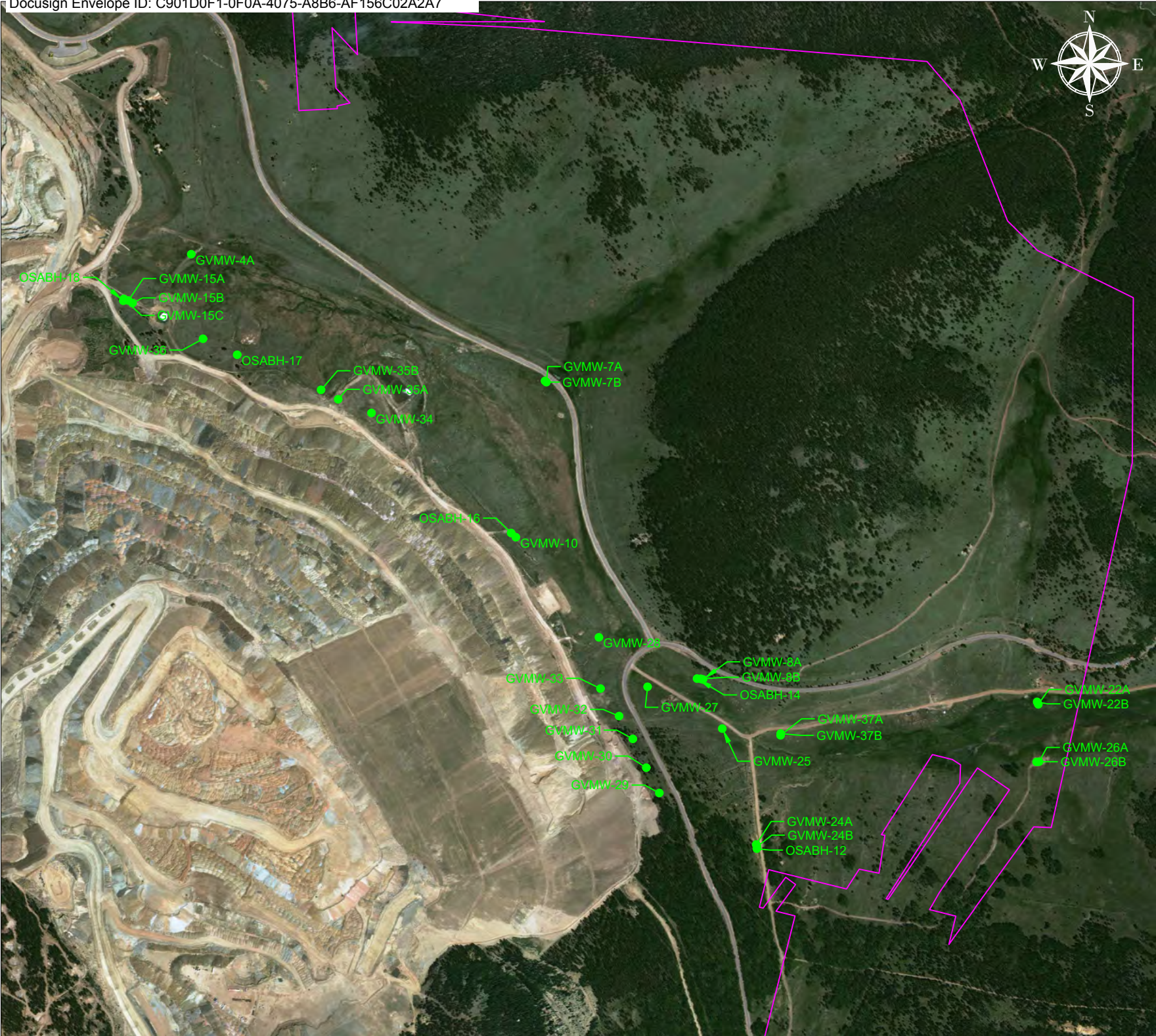
Sincerely,

Signed by:

76F4210C778E47A...

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

Figures



LEGEND		
	MONITORING WELL	
	PERMIT BOUNDARY	

General Notes		

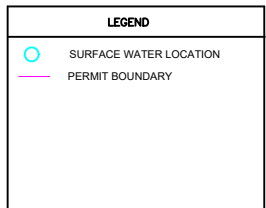
No.	Revision/Issue	Date

Firm Name and Address	
Newmont CRIPPLE CREEK & VICTOR	

Drawing Name	
GRASSY VALLEY MONITORING WELLS	

Project GRASSY VALLEY OMP	Sheet G1
Date 10/8/2024	

Scale	500	1000
Feet		



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No.	Revision/Issue	Date

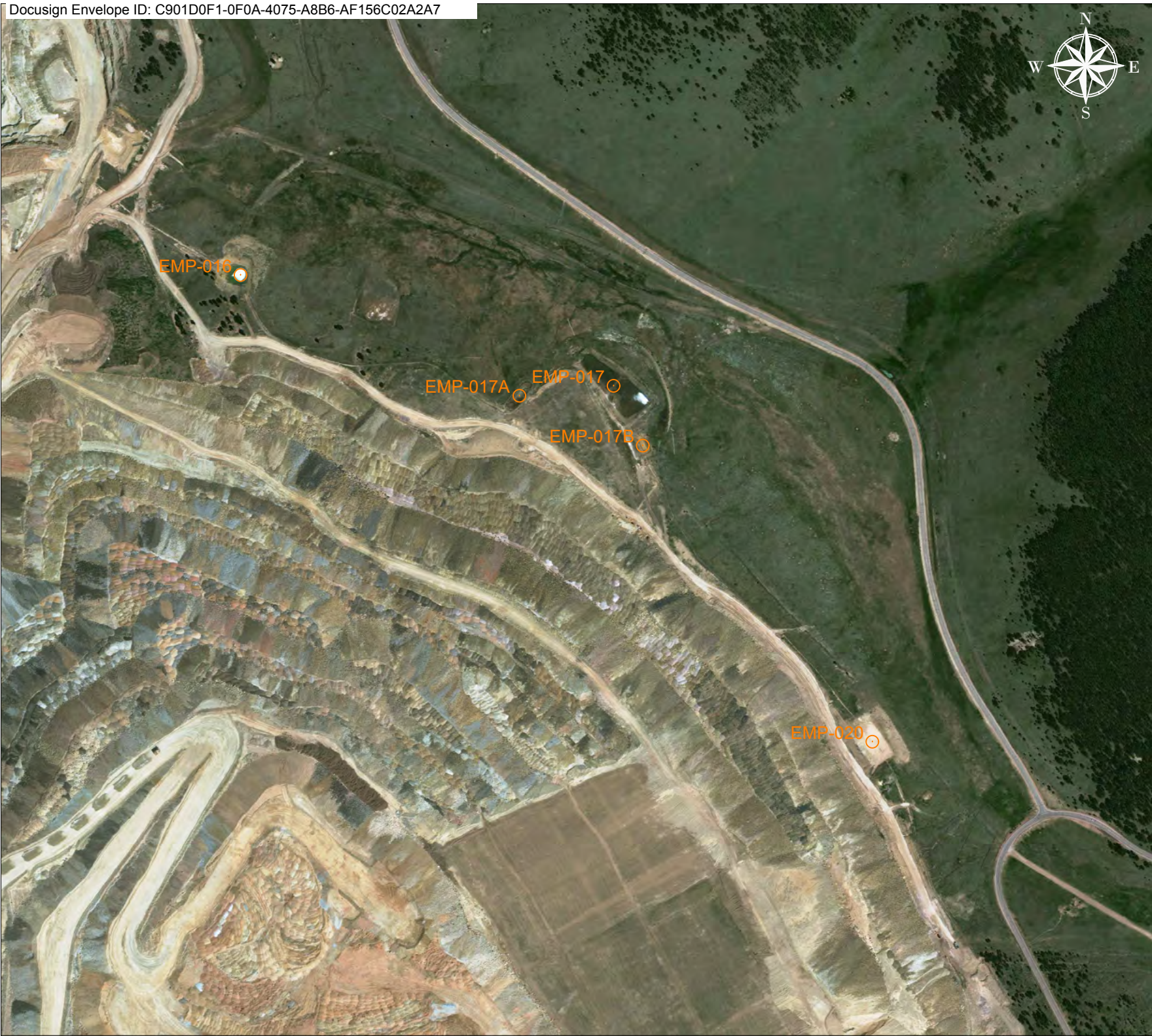


Newmont
CRIPPLE CREEK & VICTOR

GRASSY VALLEY
SURFACE WATER MONITORING

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

A graphic scale bar is located at the bottom of the page. It consists of a horizontal line with alternating black and white segments. Above the line, the numbers 0, 700, and 1400 are printed. Below the line, the word 'Feet' is printed at the right end.



LEGEND		
	EMP	
	PERMIT BOUNDARY	

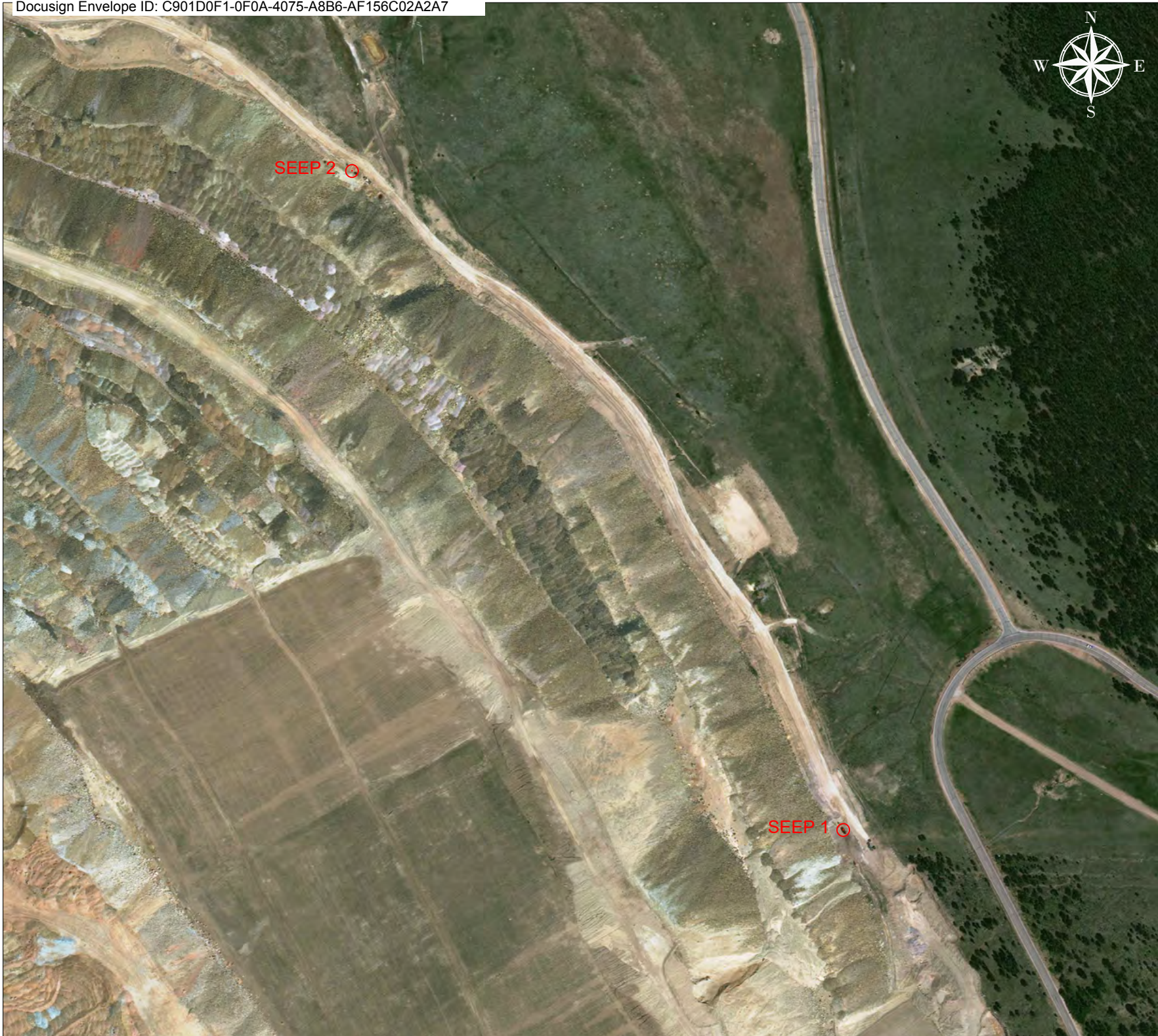
General Notes		

No.	Revision/Issue	Date

Firm Name and Address	
 CRIPPLE CREEK & VICTOR	

Drawing Name	
GRASSY VALLEY EMP MONITORING	

Project	GRASSY VALLEY OCPP	Sheet
Date	10/8/2024	G3
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 0 200 400 Feet

Tables

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

Monitoring Location	Date Monitored	Status
GVMW-4A	8/19/2025	Sampled
GVMW-7A	8/12/2025	Sampled
GVMW-7B	8/12/2025	Sampled
GVMW-8A	8/14/2025	Sampled
GVMW-8B	8/14/2025	Sampled
GVMW-10	8/25/2025	Sampled
GVMW-15A	8/19/2025	Sampled
GVMW-15B	8/19/2025	Sampled
GVMW-15C	8/19/2025	Dry at 418' BTOC
GVMW-22A	8/12/2025	Sampled
GVMW-22B	8/12/2025	Sampled
GVMW-24A	8/11/2025	Not sampled due to sediment laden water causing the pump to overheat; unable to pump well
GVMW-24B	8/11/2025	Sampled
GVMW-25	8/21/2025	Sampled
GVMW-26A	8/11/2025	Sampled
GVMW-26B	8/11/2025	Sampled
GVMW-27	8/21/2025	Sampled
GVMW-28	8/20/2025	Sampled
GVMW-29	8/26/2025	Dry at 38.05' BTOC
GVMW-30	8/26/2025	Sampled
GVMW-31	8/26/2025	Dry at 61.45' BTOC
GVMW-32	8/26/2025	Dry at 67.17' BTOC
GVMW-33	8/20/2025	Sampled
GVMW-34	8/26/2025	Sampled
GVMW-35A	8/20/2025	Sampled
GVMW-35B	8/27/2025	Sampled
GVMW-36	8/27/2025	Sampled
GVMW-37A	8/12/2025	Sampled
GVMW-37B	8/12/2025	Sampled
OSABH-12	8/19/2025	Dry at 39' bgs
OSABH-14	8/14/2025	Dry at 29' bgs
OSABH-16	8/26/2025	Sampled
OSABH-17	8/20/2025	Sampled
OSABH-18	8/11/2025	Dry at 52' BTOC
Ecosa Seep-1	8/25/2025	Not Sampled
Ecosa Seep-2	8/25/2025	Not Sampled
GV-02	8/25/2025	Not sampled; no flowing water
GV-03	8/25/2025	Not sampled; no flowing water
GV-06	8/26/2025	Sampled
GV-4.5	8/26/2025	Sampled
GV-05	8/26/2025	Sampled
EMP-016	8/25/2025	Not sampled; location dry
EMP-017	8/25/2025	Not sampled; location dry
EMP-017A	8/25/2025	Not sampled; location dry
EMP-17B	8/25/2025	Not sampled; location dry
EMP-17C	8/25/2025	Not sampled; location dry
EMP-020	8/25/2025	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 - August 2025
Cripple Creek and Victor Gold Mining Company

ANALYTE	Reg 41 TVS	Site Wide NPL	UNIT	Well I.D. Sample Date	GVMW-4A 8/19/2025	GVMW-7A 8/12/2025	GVMW-7B 8/12/2025	GVMW-8A* 8/14/2025	GVMW-8B 8/14/2025	GVMW-10 8/25/2025	GVMW-15A 8/19/2025	GVMW-15B 8/19/2025	GVMW-22A 8/12/2025	GVMW-22B 8/12/2025	GVMW-24B 8/11/2025	GVMW-25 8/21/2025	GVMW-26A 8/11/2025	GVMW-26B 8/11/2025
Aluminum - Dissolved	5	7	mg/L		<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	0.516	<0.080	<0.080	0.511	649	<0.080	<0.080
Ammonia	NA	NA	mg/L		<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	0.035	<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	<0.00500	<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	<0.00100	0.159	<0.00100	<0.00100
Barium - Dissolved	2	NA	mg/L		0.203	0.206	0.0358	<0.0020	0.0109	0.0174	0.0633	0.0211	0.102	0.057	0.0135	0.0135	0.2	0.104
Beryllium - Dissolved	0.004	NA	mg/L		<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.0324	<0.00200	<0.00200	0.00306	0.443	<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	0.0043	1.17	<0.0020	<0.0020
Chloride - Total	250	NA	mg/L		5.09	18.5	22.1	65	47.7	5.42	1.48	1.53	3.85	7.63	29	27.5	1.32	1.82
Chromium - Dissolved	0.1	NA	mg/L		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0064	<0.0060	<0.0060	<0.0060	<0.0060	0.0062	0.123	<0.0060	<0.0060
Cobalt - Dissolved	0.05	NA	mg/L		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0376	0.0781	<0.0060	<0.0060	<0.0060	<0.0060	1.19	<0.0060	<0.0060
Copper - Dissolved	0.2	0.2	mg/L		<0.0100	<0.0100	<0.0100	<0.0100	0.0436	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	1.81	<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		0.121	0.77	0.333	1.82	2.12	1.11	0.28	0.417	2.14	0.35	1.07	64.2	1.72	0.196
Iron - Dissolved	0.3	14	mg/L		9.61	1.28	<0.100	<0.100	<0.100	41.1	29.9	<0.100	0.244	1.87	<0.100	<0.100	<0.100	<0.100
Lead - Dissolved	0.05	NA	mg/L		<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	0.0711	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075
Lithium - Dissolved	2.5	NA	mg/L		0.056	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	0.2	<0.040	<0.040
Manganese - Dissolved	0.05	3	mg/L		2.31	0.251	<0.0080	<0.0080	<0.0080	2.35	2.36	1.88	0.0912	<0.0080	1.26	176	<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	0.0549	<0.0080	<0.0080	0.0092	<0.0080	<0.0080	0.0080	0.0204	<0.0080	<0.0080
Nickel - Dissolved	0.1	NA	mg/L		<0.0100	<0.0100	0.0114	<0.0100	<0.0100	0.0165	0.0613	0.123	<0.0100	<0.0100	0.0721	1.92	<0.0100	0.0131
Nitrate as Nitrogen	10	10	mg/L		<0.050	<0.050	0.737	1.24	2.1	<0.050	<0.050	<0.050	<0.050	0.366	1.74	<0.500	0.052	0.773
Nitrite + Nitrate as Nitrogen	10	11	mg/L		<0.100	<0.100	0.737	1.24	2.1	<0.100	<0.100	0.326	<0.100	0.366	1.75	8.26	<0.100	0.777
Nitrite as Nitrogen	1	1	mg/L		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.500	<0.050	<0.050
pH Field	6.5-8.5	6.0-8.5	pH units		6.14	7.14	7.1	6.63	6.41	6.43	6.14	4.65	7.72	6.2	6.54	4.15	7.93	6.1
Selenium - Dissolved	0.02	0.024	mg/L		<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.00243	0.0131	<0.00100	<0.00100
Silver - Dissolved	0.05	NA	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium - Dissolved	NA	NA	mg/L		11.7	10.1	12.8	30.9	31.4	37.7	15.9	16.5	36.3	21.8	21.7	41.1	30.7	9.86
Sulfate - Total	250	NA	mg/L		61.6	25.4	129	64.5	83.8	1,140	180	289	31.7	94.2	1,450	5,890	13.3	19.3
Thallium - Dissolved	0.002	NA	mg/L		<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.00100	<0.000200	<0.000200
Total Dissolved Solids	NA	NA	mg/L		224	275	369	273	278	1,830	312	499	224	238	2,400	8,350	191	73
Uranium - Dissolved	0.03	NA	mg/L		<0.000100	0.00454	0.00591	0.00474	0.00251	0.0503	<0.000100	0.00338	0.0036	0.000934	0.0115	1.500	0.00318	<0.000100
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		0.0229	0.0139	0.0167	0.0137	0.0139	0.127	0.254	1.46	0.0192	0.0133	0.0752	39.4	0.0111	0.0118

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
- Revs 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 -August 2025
Cripple Creek and Victor Gold Mining Company

ANALYTE	Reg 41 TVS	Site Wide NPL	UNIT	Well I.D. Sample Date	GVMW-27 8/21/2025	GVMW-28 8/20/2025	GVMW-30 8/26/2025	GVMW-33 8/20/2025	GVMW-34 8/26/2025	GVMW-35A 8/20/2025	GVMW-35B 8/27/2025	GVMW-37A 8/12/2025	GVMW-37B 8/12/2025	OSABH-17 8/20/2025	OSABH-16 8/26/2025
Aluminum - Dissolved	5	7	mg/L		114	1,060	303	300	30.8	<0.080	<0.080	<0.080	<0.080	4,410	671
Ammonia	NA	NA	mg/L		<0.030	<0.030	<0.030	0.174	<0.030	<0.030	<0.030	<0.030	<0.030	0.03	0.056
Antimony - Dissolved	0.006	NA	mg/L		<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.00418	<0.00100	0.0012	<0.00100	<0.0200	<0.00500
Arsenic - Dissolved	0.01	NA	mg/L		0.0234	0.279	0.0397	0.0969	<0.00500	<0.00100	0.00227	<0.00100	0.574	0.126	
Barium - Dissolved	2	NA	mg/L		0.014	0.0124	0.0119	0.0238	0.0326	0.0549	0.0127	0.0659	0.0722	<0.0200	0.0129
Beryllium - Dissolved	0.004	NA	mg/L		0.102	0.763	0.5	0.355	0.0261	<0.00200	<0.00200	<0.00200	<0.00200	0.792	0.385
Boron - Total	0.75	NA	mg/L		<0.0400	<0.0400	<0.0400	<0.0400	0.0469	<0.0400	<0.0400	<0.0400	<0.0400	<0.400	<0.0800
Cadmium - Dissolved	0.005	0.005	mg/L		0.285	2.07	0.235	0.665	0.112	<0.0020	<0.0020	<0.0020	<0.0020	9.38	2.99
Chloride - Total	250	NA	mg/L		24	4.64	2.38	5.8	27.6	14.3	87.1	3.61	4.37	19.7	5.96
Chromium - Dissolved	0.1	NA	mg/L		0.0315	0.248	0.233	0.11	0.0334	<0.0060	<0.0060	<0.0060	<0.0060	1.18	0.111
Cobalt - Dissolved	0.05	NA	mg/L		0.228	1.99	0.398	0.413	0.108	<0.0060	<0.0060	<0.0060	<0.0060	20.4	2.11
Copper - Dissolved	0.2	0.2	mg/L		0.255	5.15	0.18	0.49	0.0175	<0.0100	<0.0100	<0.0100	<0.0100	18.3	3.64
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	0.007	<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	0.0296	<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
Fluoride - Total F	2	2	mg/L		14.2	119	6.8	11.3	37.3	0.133	<0.100	1.38	1.68	534	144
Iron - Dissolved	0.3	14	mg/L		1.25	58.9	12.5	1.9	0.846	<0.100	0.187	<0.100	<0.100	132	19.6
Lead - Dissolved	0.05	NA	mg/L		<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0750	0.023
Lithium - Dissolved	2.5	NA	mg/L		0.055	0.381	0.219	0.118	0.317	<0.040	<0.040	<0.040	<0.040	1.99	0.418
Manganese - Dissolved	0.05	3	mg/L		53.6	309	47.2	0.159	114	<0.0080	0.319	0.0463	0.0841	1,470	650
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
Molybdenum - Dissolved	0.21	NA	mg/L		<0.0080	0.0422	0.0095	0.0257	0.0149	0.0123	0.0132	0.0215	0.0083	0.128	0.0388
Nickel - Dissolved	0.1	NA	mg/L		0.486	3.2	1.32	1.11	0.608	<0.0100	<0.0100	<0.0100	<0.0100	15.9	1.79
Nitrate as Nitrogen	10	10	mg/L		0.086	6.32	1.98	3.46	12	0.071	14.4	<0.050	1.03	4.94	2.47
Nitrite + Nitrate as Nitrogen	10	11	mg/L		<0.100	6.4	1.98	3.54	12	<0.100	14.6	<0.100	1.03	5.07	2.47
Nitrite as Nitrogen	1	1	mg/L		<0.050	<0.500	<0.250	<0.250	<0.250	<0.050	0.162	<0.050	<0.050	<0.500	<0.500
pH Field	6.5-8.5	6.0-8.5	pH units		4.79	2.81	3.62	3.90	5.58	11.69	7.65	9.27	7.28	2.83	3.4
Selenium - Dissolved	0.02	0.024	mg/L		0.00284	0.0273	<0.00500	0.0119	0.0136	<0.00100	0.0046	<0.00100	0.0012	0.0566	0.0162
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	<0.0100
Sodium - Dissolved	NA	NA	mg/L		51.4	35.6	37.8	181	59	34.4	17.7	35.7	33.9	11.3	21.6
Sulfate - Total	250	NA	mg/L		1,790	9,770	3,960	3,660	3,070	417	1,410	172	199	35,700	8,170
Thallium - Dissolved	0.002	NA	mg/L		<0.000200	<0.00100	<0.00100	<0.000200	<0.00100	<0.000200	<0.000200	<0.000200	<0.000200	<0.00400	<0.00100
Total Dissolved Solids	NA	NA	mg/L		2,980	13,600	5,190	4,950	4,470	732	2,320	333	443	50,500	11,500
Uranium - Dissolved	0.03	NA	mg/L		0.305	2.69	0.469	1.04	0.0507	0.000661	0.00424	0.00272	0.00298	15.5	4.74
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	<0.0100
Zinc - Dissolved	2	2	mg/L		10.4	83.8	4.1	17.5	14.4	0.0139	0.0169	0.014	0.0145	361	124

Notes:

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

Attachment 1

Laboratory Analytical Reports



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net**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: **X5H0162**

Reported: 28-Aug-25 09:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-26 B	X5H0162-01	Ground Water	11-Aug-25 10:22	TR	12-Aug-2025	
GVMW-26 A	X5H0162-02	Ground Water	11-Aug-25 11:25	TR	12-Aug-2025	
GVMW-24 B	X5H0162-03	Ground Water	11-Aug-25 13:00	TR	12-Aug-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: X5H0162

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: **X5H0162**

Reported: 28-Aug-25 09:15

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

Sampled: 11-Aug-25 10:22

Received: 12-Aug-25

Sampled By: TR

SVL Sample ID: **X5H0162-01 (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	11.9	mg/L	0.100	0.069		X534141	NMS	08/26/25 08:45	
EPA 200.7	Magnesium	2.34	mg/L	0.500	0.090		X534141	NMS	08/26/25 08:45	
EPA 200.7	Potassium	0.86	mg/L	0.50	0.18		X534141	NMS	08/26/25 08:45	
SM 2340 B	Hardness (as CaCO3)	39.3	mg/L	2.31	0.543		N/A		08/19/25 09:00	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X534067	NMS	08/19/25 09:00	
EPA 200.7	Barium	0.104	mg/L	0.0020	0.0019		X534067	NMS	08/19/25 09:00	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X534067	NMS	08/19/25 09:00	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X534067	NMS	08/19/25 09:00	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X534067	NMS	08/19/25 09:00	
EPA 200.7	Calcium	10.7	mg/L	0.100	0.069		X534067	NMS	08/19/25 09:00	B7
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X534067	NMS	08/19/25 09:00	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X534067	NMS	08/19/25 09:00	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X534067	NMS	08/19/25 09:00	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X534067	NMS	08/19/25 09:00	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X534067	NMS	08/19/25 09:00	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X534067	NMS	08/19/25 09:00	
EPA 200.7	Magnesium	2.17	mg/L	0.500	0.090		X534067	NMS	08/19/25 09:00	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X534067	NMS	08/19/25 09:00	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X534067	NMS	08/19/25 09:00	
EPA 200.7	Nickel	0.0131	mg/L	0.0100	0.0048		X534067	NMS	08/19/25 09:00	
EPA 200.7	Potassium	0.80	mg/L	0.50	0.18		X534067	NMS	08/19/25 09:00	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X534067	NMS	08/19/25 09:00	
EPA 200.7	Sodium	9.86	mg/L	0.50	0.12		X534067	NMS	08/19/25 09:00	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X534067	NMS	08/19/25 09:00	
EPA 200.7	Zinc	0.0118	mg/L	0.0100	0.0054		X534067	NMS	08/19/25 09:00	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X534008	SMU	08/27/25 17:11	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X534008	SMU	08/27/25 17:11	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X534008	SMU	08/27/25 17:11	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X534008	SMU	08/27/25 17:11	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X534008	SMU	08/27/25 17:11	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X534038	MAC	08/22/25 16:45	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X534085	ORW	08/22/25 16:58	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X534082	ORW	08/20/25 14:37	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X533174	JPM	08/19/25 20:13	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X533120	ORW	08/14/25 20:54	
SM 2310 B	Acidity to pH 8.3	-32.5	mg/L as CaCO3	10.0			X535012	MWD	08/25/25 13:04	
SM 2320 B	Total Alkalinity	35.6	mg/L as CaCO3	1.0			X534116	MWD	08/20/25 14:48	
SM 2320 B	Bicarbonate	35.6	mg/L as CaCO3	1.0			X534116	MWD	08/20/25 14:48	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X534116	MWD	08/20/25 14:48	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X534116	MWD	08/20/25 14:48	
SM 2540 C	Total Diss. Solids	73	mg/L	10			X533105	TJL	08/14/25 12:50	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X533106	TJL	08/14/25 13:50	
SM 4500 H B	pH @23.2°C	6.8	pH Units				X534116	MWD	08/20/25 14:48	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: X5H0162 Reported: 28-Aug-25 09:15
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Client Sample ID: **GVMW-26 B**
SVL Sample ID: **X5H0162-01 (Ground Water)**

Sampled: 11-Aug-25 10:22
Received: 12-Aug-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	1.82	mg/L	0.20	0.02		X533081	RS	08/12/25 13:48	
EPA 300.0	Fluoride	0.196	mg/L	0.100	0.017		X533081	RS	08/12/25 13:48	
EPA 300.0	Nitrate as N	0.773	mg/L	0.050	0.013		X533081	RS	08/12/25 13:48	
EPA 300.0	Nitrate+Nitrite as N	0.777	mg/L	0.100	0.044		X533081	RS	08/12/25 13:48	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X533081	RS	08/12/25 13:48	
EPA 300.0	Sulfate as SO4	19.3	mg/L	0.30	0.18		X533081	RS	08/12/25 13:48	

Cation/Anion Balance and TDS Ratios

Cation Sum: 1.18 meq/L	Anion Sum: 1.23 meq/L	C/A Balance: -2.23 %	Calculated TDS: 70	TDS/cTDS: 1.04
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This data has been reviewed for accuracy and has been authorized for release.

Kristi A. Groth

Kristi A. Groth
Project Manager



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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: **X5H0162**

Reported: 28-Aug-25 09:15

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

Sampled: 11-Aug-25 11:25

Received: 12-Aug-25

Sampled By: TR

SVL Sample ID: **X5H0162-02 (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	31.6	mg/L	0.100	0.069		X534141	NMS	08/26/25 08:49	
EPA 200.7	Magnesium	7.28	mg/L	0.500	0.090		X534141	NMS	08/26/25 08:49	
EPA 200.7	Potassium	1.07	mg/L	0.50	0.18		X534141	NMS	08/26/25 08:49	
SM 2340 B	Hardness (as CaCO3)	103	mg/L	2.31	0.543		N/A		08/19/25 09:02	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X534067	NMS	08/19/25 09:02	
EPA 200.7	Barium	0.200	mg/L	0.0020	0.0019		X534067	NMS	08/19/25 09:02	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X534067	NMS	08/19/25 09:02	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X534067	NMS	08/19/25 09:02	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X534067	NMS	08/19/25 09:02	
EPA 200.7	Calcium	29.2	mg/L	0.100	0.069		X534067	NMS	08/19/25 09:02	B7
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X534067	NMS	08/19/25 09:02	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X534067	NMS	08/19/25 09:02	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X534067	NMS	08/19/25 09:02	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X534067	NMS	08/19/25 09:02	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X534067	NMS	08/19/25 09:02	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X534067	NMS	08/19/25 09:02	
EPA 200.7	Magnesium	6.53	mg/L	0.500	0.090		X534067	NMS	08/19/25 09:02	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X534067	NMS	08/19/25 09:02	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X534067	NMS	08/19/25 09:02	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X534067	NMS	08/19/25 09:02	
EPA 200.7	Potassium	0.91	mg/L	0.50	0.18		X534067	NMS	08/19/25 09:02	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X534067	NMS	08/19/25 09:02	
EPA 200.7	Sodium	30.7	mg/L	0.50	0.12		X534067	NMS	08/19/25 09:02	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X534067	NMS	08/19/25 09:02	
EPA 200.7	Zinc	0.0111	mg/L	0.0100	0.0054		X534067	NMS	08/19/25 09:02	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X534008	SMU	08/27/25 17:14	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X534008	SMU	08/27/25 17:14	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X534008	SMU	08/27/25 17:14	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X534008	SMU	08/27/25 17:14	
EPA 200.8	Uranium	0.00318	mg/L	0.000100	0.000052		X534008	SMU	08/27/25 17:14	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X534038	MAC	08/22/25 16:47	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X534085	ORW	08/22/25 17:00	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X534082	ORW	08/20/25 14:39	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X533174	JPM	08/19/25 20:15	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X533120	ORW	08/14/25 21:10	
SM 2310 B	Acidity to pH 8.3	-153	mg/L as CaCO3	10.0			X535012	MWD	08/25/25 13:04	
SM 2320 B	Total Alkalinity	156	mg/L as CaCO3	1.0			X534116	MWD	08/20/25 14:53	
SM 2320 B	Bicarbonate	156	mg/L as CaCO3	1.0			X534116	MWD	08/20/25 14:53	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X534116	MWD	08/20/25 14:53	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X534116	MWD	08/20/25 14:53	
SM 2540 C	Total Diss. Solids	191	mg/L	10			X533105	TJL	08/14/25 12:50	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X533106	TJL	08/14/25 13:50	
SM 4500 H B	pH @23.1°C	8.0	pH Units				X534116	MWD	08/20/25 14:53	H5

SVL holds the following certifications:

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

Work order Report Page 4 of 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: X5H0162 Reported: 28-Aug-25 09:15
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Client Sample ID: **GVMW-26 A**
SVL Sample ID: **X5H0162-02 (Ground Water)**

Sampled: 11-Aug-25 11:25
Received: 12-Aug-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	1.32	mg/L	0.20	0.02		X533081	RS	08/12/25 15:59	
EPA 300.0	Fluoride	1.72	mg/L	0.100	0.017		X533081	RS	08/12/25 15:59	
EPA 300.0	Nitrate as N	0.052	mg/L	0.050	0.013		X533081	RS	08/12/25 15:59	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X533081	RS	08/12/25 15:59	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X533081	RS	08/12/25 15:59	
EPA 300.0	Sulfate as SO4	13.3	mg/L	0.30	0.18		X533081	RS	08/12/25 15:59	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.37 meq/L	Anion Sum: 3.52 meq/L	C/A Balance: -2.26 %	Calculated TDS: 179	TDS/cTDS: 1.07
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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: **X5H0162**

Reported: 28-Aug-25 09:15

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

Sampled: 11-Aug-25 13:00

Received: 12-Aug-25

Sampled By: TR

SVL Sample ID: **X5H0162-03 (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	459	mg/L	1.00	0.690	10	X534141	MAC	08/26/25 12:08	
EPA 200.7	Magnesium	140	mg/L	0.500	0.090		X534141	NMS	08/26/25 08:53	
EPA 200.7	Potassium	2.80	mg/L	0.50	0.18		X534141	NMS	08/26/25 08:53	
SM 2340 B	Hardness (as CaCO3)	1720	mg/L	2.31	0.543		N/A		08/19/25 09:04	

Metals (Dissolved)

EPA 200.7	Aluminum	0.511	mg/L	0.080	0.054		X534067	NMS	08/19/25 09:04	
EPA 200.7	Barium	0.0135	mg/L	0.0020	0.0019		X534067	NMS	08/19/25 09:04	
EPA 200.7	Beryllium	0.00306	mg/L	0.00200	0.00080		X534067	NMS	08/19/25 09:04	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X534067	NMS	08/19/25 09:04	
EPA 200.7	Cadmium	0.0043	mg/L	0.0020	0.0016		X534067	NMS	08/19/25 09:04	
EPA 200.7	Calcium	458	mg/L	0.100	0.069		X534067	NMS	08/19/25 09:04	B7
EPA 200.7	Chromium	0.0062	mg/L	0.0060	0.0020		X534067	NMS	08/19/25 09:04	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X534067	NMS	08/19/25 09:04	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X534067	NMS	08/19/25 09:04	
EPA 200.7	Iron	0.244	mg/L	0.100	0.056		X534067	NMS	08/19/25 09:04	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X534067	NMS	08/19/25 09:04	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X534067	NMS	08/19/25 09:04	
EPA 200.7	Magnesium	124	mg/L	0.500	0.090		X534067	NMS	08/19/25 09:04	
EPA 200.7	Manganese	1.26	mg/L	0.0080	0.0034		X534067	NMS	08/19/25 09:04	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X534067	NMS	08/19/25 09:04	
EPA 200.7	Nickel	0.0721	mg/L	0.0100	0.0048		X534067	NMS	08/19/25 09:04	
EPA 200.7	Potassium	2.51	mg/L	0.50	0.18		X534067	NMS	08/19/25 09:04	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X534067	NMS	08/19/25 09:04	
EPA 200.7	Sodium	21.7	mg/L	0.50	0.12		X534067	NMS	08/19/25 09:04	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X534067	NMS	08/19/25 09:04	
EPA 200.7	Zinc	0.0752	mg/L	0.0100	0.0054		X534067	NMS	08/19/25 09:04	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X534008	SMU	08/27/25 17:21	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X534008	SMU	08/27/25 17:21	
EPA 200.8	Selenium	0.00243	mg/L	0.00100	0.00024		X534008	SMU	08/27/25 17:21	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X534008	SMU	08/27/25 17:21	
EPA 200.8	Uranium	0.0115	mg/L	0.000100	0.000052		X534008	SMU	08/27/25 17:21	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X534038	MAC	08/22/25 16:50	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X534085	ORW	08/22/25 17:03	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X534082	ORW	08/20/25 14:41	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X533174	JPM	08/19/25 20:18	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X533120	ORW	08/14/25 21:12	
SM 2310 B	Acidity to pH 8.3	-51.0	mg/L as CaCO3	10.0			X535012	MWD	08/25/25 13:04	
SM 2320 B	Total Alkalinity	50.8	mg/L as CaCO3	1.0			X534116	MWD	08/20/25 14:59	
SM 2320 B	Bicarbonate	50.8	mg/L as CaCO3	1.0			X534116	MWD	08/20/25 14:59	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X534116	MWD	08/20/25 14:59	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X534116	MWD	08/20/25 14:59	
SM 2540 C	Total Diss. Solids	2400	mg/L	40			X533105	TJL	08/14/25 12:50	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X533106	TJL	08/14/25 13:50	
SM 4500 H B	pH @23.2°C	6.5	pH Units				X534116	MWD	08/20/25 14:59	H5

SVL holds the following certifications:

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

Work order Report Page 6 of 13



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

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: X5H0162 Reported: 28-Aug-25 09:15
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Client Sample ID: **GVMW-24 B**
SVL Sample ID: **X5H0162-03 (Ground Water)**

Sampled: 11-Aug-25 13:00
Received: 12-Aug-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	29.0	mg/L	10.0	1.10	50	X533081	RS	08/12/25 16:48	
EPA 300.0	Fluoride	1.07	mg/L	0.100	0.017		X533081	RS	08/12/25 16:31	
EPA 300.0	Nitrate as N	1.74	mg/L	0.050	0.013		X533081	RS	08/12/25 16:31	
EPA 300.0	Nitrate+Nitrite as N	1.75	mg/L	0.100	0.044		X533081	RS	08/12/25 16:31	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X533081	RS	08/12/25 16:31	
EPA 300.0	Sulfate as SO4	1450	mg/L	15.0	9.00	50	X533081	RS	08/12/25 16:48	

Cation/Anion Balance and TDS Ratios

Cation Sum: 34.2 meq/L	Anion Sum: 32.2 meq/L	C/A Balance: 2.99 %	Calculated TDS: 2133	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



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: **X5H0162**

Reported: 28-Aug-25 09:15

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	X534141	26-Aug-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X534141	26-Aug-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X534141	26-Aug-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X534067	19-Aug-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X534067	19-Aug-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X534067	19-Aug-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X534067	19-Aug-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X534067	19-Aug-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X534067	19-Aug-25	B7
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X534067	19-Aug-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X534067	19-Aug-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X534067	19-Aug-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X534067	19-Aug-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X534067	19-Aug-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X534067	19-Aug-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X534067	19-Aug-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X534067	19-Aug-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X534067	19-Aug-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X534067	19-Aug-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X534067	19-Aug-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X534067	19-Aug-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X534067	19-Aug-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X534067	19-Aug-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X534067	19-Aug-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X534008	27-Aug-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X534008	27-Aug-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X534008	27-Aug-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X534008	27-Aug-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X534008	27-Aug-25	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X534038	22-Aug-25	
Classical Chemistry Parameters								
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X534085	22-Aug-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X534082	20-Aug-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X533174	19-Aug-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X533120	14-Aug-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X535012	25-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X534116	20-Aug-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X534116	20-Aug-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X534116	20-Aug-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X534116	20-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X533105	14-Aug-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X533106	14-Aug-25	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X533081	12-Aug-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X533081	12-Aug-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X533081	12-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X533081	12-Aug-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X533081	12-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X533081	12-Aug-25	

SVL holds the following certifications:

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

Work order Report Page 8 of 13



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net**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: **X5H0162**

Reported: 28-Aug-25 09:15

Quality Control - LABORATORY CONTROL SAMPLE Data

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

EPA 200.7	Calcium	mg/L	20.4	20.0	102	85 - 115	X534141	26-Aug-25	
EPA 200.7	Magnesium	mg/L	20.4	20.0	102	85 - 115	X534141	26-Aug-25	
EPA 200.7	Potassium	mg/L	20.5	20.0	103	85 - 115	X534141	26-Aug-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.02	1.00	102	85 - 115	X534067	19-Aug-25	
EPA 200.7	Barium	mg/L	1.01	1.00	101	85 - 115	X534067	19-Aug-25	
EPA 200.7	Beryllium	mg/L	0.997	1.00	99.7	85 - 115	X534067	19-Aug-25	
EPA 200.7	Boron	mg/L	1.03	1.00	103	85 - 115	X534067	19-Aug-25	
EPA 200.7	Cadmium	mg/L	0.959	1.00	95.9	85 - 115	X534067	19-Aug-25	
EPA 200.7	Calcium	mg/L	19.4	20.0	97.0	85 - 115	X534067	19-Aug-25	
EPA 200.7	Chromium	mg/L	0.996	1.00	99.6	85 - 115	X534067	19-Aug-25	
EPA 200.7	Cobalt	mg/L	0.944	1.00	94.4	85 - 115	X534067	19-Aug-25	
EPA 200.7	Copper	mg/L	0.963	1.00	96.3	85 - 115	X534067	19-Aug-25	
EPA 200.7	Iron	mg/L	9.93	10.0	99.3	85 - 115	X534067	19-Aug-25	
EPA 200.7	Lead	mg/L	0.960	1.00	96.0	85 - 115	X534067	19-Aug-25	
EPA 200.7	Lithium	mg/L	0.993	1.00	99.3	85 - 115	X534067	19-Aug-25	
EPA 200.7	Magnesium	mg/L	18.8	20.0	94.1	85 - 115	X534067	19-Aug-25	
EPA 200.7	Manganese	mg/L	0.986	1.00	98.6	85 - 115	X534067	19-Aug-25	
EPA 200.7	Molybdenum	mg/L	1.01	1.00	101	85 - 115	X534067	19-Aug-25	
EPA 200.7	Nickel	mg/L	0.943	1.00	94.3	85 - 115	X534067	19-Aug-25	
EPA 200.7	Potassium	mg/L	20.5	20.0	103	85 - 115	X534067	19-Aug-25	
EPA 200.7	Silver	mg/L	0.0521	0.0500	104	85 - 115	X534067	19-Aug-25	
EPA 200.7	Sodium	mg/L	18.5	19.0	97.5	85 - 115	X534067	19-Aug-25	
EPA 200.7	Vanadium	mg/L	1.00	1.00	100	85 - 115	X534067	19-Aug-25	
EPA 200.7	Zinc	mg/L	0.993	1.00	99.3	85 - 115	X534067	19-Aug-25	
EPA 200.8	Antimony	mg/L	0.0245	0.0250	98.0	85 - 115	X534008	27-Aug-25	
EPA 200.8	Arsenic	mg/L	0.0241	0.0250	96.2	85 - 115	X534008	27-Aug-25	
EPA 200.8	Selenium	mg/L	0.0235	0.0250	94.2	85 - 115	X534008	27-Aug-25	
EPA 200.8	Thallium	mg/L	0.0258	0.0250	103	85 - 115	X534008	27-Aug-25	
EPA 200.8	Uranium	mg/L	0.0261	0.0250	104	85 - 115	X534008	27-Aug-25	

B7

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00203	0.00200	102	85 - 115	X534038	22-Aug-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.104	0.100	104	90 - 110	X534085	22-Aug-25	
EPA 335.4	Cyanide (total)	mg/L	0.102	0.100	102	90 - 110	X534082	20-Aug-25	
EPA 350.1	Ammonia as N	mg/L	1.00	1.00	100	90 - 110	X533174	19-Aug-25	
OIA 1677	Cyanide (WAD)	mg/L	0.0928	0.100	92.8	90 - 110	X533120	14-Aug-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1140	1180	96.7	95.4 - 104	X535012	25-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	100	99.3	101	94 - 106	X534116	20-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	396	397	99.6	94 - 106	X534116	20-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	245	250	98.0	85 - 115	X533105	14-Aug-25	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X533106	14-Aug-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	2.93	3.00	97.8	90 - 110	X533081	12-Aug-25	
EPA 300.0	Fluoride	mg/L	1.95	2.00	97.4	90 - 110	X533081	12-Aug-25	
EPA 300.0	Nitrate as N	mg/L	1.92	2.00	96.1	90 - 110	X533081	12-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.39	4.50	97.5	90 - 110	X533081	12-Aug-25	
EPA 300.0	Nitrite as N	mg/L	2.46	2.50	98.6	90 - 110	X533081	12-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	9.76	10.0	97.6	90 - 110	X533081	12-Aug-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: **X5H0162**

Reported: 28-Aug-25 09:15

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO ₃	<10.0	<10.0	UDL	20	X535012 - X5H0160-01	25-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	192	192	0.1	20	X534116 - X5H0160-02	20-Aug-25	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	192	192	0.1	20	X534116 - X5H0160-02	20-Aug-25	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X534116 - X5H0160-02	20-Aug-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X534116 - X5H0160-02	20-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	187	191	2.1	10	X533105 - X5H0162-02	14-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	538	529	1.7	10	X533105 - X5H0158-03	14-Aug-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X533106 - X5H0162-02	14-Aug-25	
SM 4500 H B	pH @23.0°C	pH Units	8.2	8.2	0.2	20	X534116 - X5H0160-02	20-Aug-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	66.6	48.4	20.0	91	70 - 130	X534141 - X5H0160-01	26-Aug-25	
EPA 200.7	Calcium	mg/L	82.2	64.4	20.0	89	70 - 130	X534141 - X5H0166-21	26-Aug-25	
EPA 200.7	Magnesium	mg/L	34.0	12.7	20.0	107	70 - 130	X534141 - X5H0160-01	26-Aug-25	
EPA 200.7	Magnesium	mg/L	36.1	15.0	20.0	105	70 - 130	X534141 - X5H0166-21	26-Aug-25	
EPA 200.7	Potassium	mg/L	34.1	14.4	20.0	98.9	70 - 130	X534141 - X5H0160-01	26-Aug-25	
EPA 200.7	Potassium	mg/L	22.7	1.87	20.0	104	70 - 130	X534141 - X5H0166-21	26-Aug-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	21.1	19.7	1.00	0.30R>S	70 - 130	X534067 - X5H0126-01	19-Aug-25	M3
EPA 200.7	Aluminum	mg/L	0.990	<0.080	1.00	99.0	70 - 130	X534067 - X5H0203-06	19-Aug-25	
EPA 200.7	Barium	mg/L	1.02	0.0119	1.00	101	70 - 130	X534067 - X5H0126-01	19-Aug-25	
EPA 200.7	Barium	mg/L	1.08	0.0722	1.00	101	70 - 130	X534067 - X5H0203-06	19-Aug-25	
EPA 200.7	Beryllium	mg/L	1.03	0.00608	1.00	103	70 - 130	X534067 - X5H0126-01	19-Aug-25	
EPA 200.7	Beryllium	mg/L	0.990	<0.00200	1.00	99.0	70 - 130	X534067 - X5H0203-06	19-Aug-25	
EPA 200.7	Boron	mg/L	1.16	0.0642	1.00	110	70 - 130	X534067 - X5H0126-01	19-Aug-25	
EPA 200.7	Boron	mg/L	1.06	<0.0400	1.00	105	70 - 130	X534067 - X5H0203-06	19-Aug-25	
EPA 200.7	Cadmium	mg/L	1.06	0.122	1.00	94.3	70 - 130	X534067 - X5H0126-01	19-Aug-25	
EPA 200.7	Cadmium	mg/L	0.941	<0.0020	1.00	94.1	70 - 130	X534067 - X5H0203-06	19-Aug-25	
EPA 200.7	Calcium	mg/L	467	436	20.0	0.30R>S	70 - 130	X534067 - X5H0126-01	19-Aug-25	B7,M3
EPA 200.7	Calcium	mg/L	91.2	71.5	20.0	98.4	70 - 130	X534067 - X5H0203-06	19-Aug-25	B7
EPA 200.7	Chromium	mg/L	0.995	0.0081	1.00	98.7	70 - 130	X534067 - X5H0126-01	19-Aug-25	
EPA 200.7	Chromium	mg/L	0.988	<0.0060	1.00	98.8	70 - 130	X534067 - X5H0203-06	19-Aug-25	
EPA 200.7	Cobalt	mg/L	1.16	0.196	1.00	96.1	70 - 130	X534067 - X5H0126-01	19-Aug-25	
EPA 200.7	Cobalt	mg/L	0.925	<0.0060	1.00	92.5	70 - 130	X534067 - X5H0203-06	19-Aug-25	
EPA 200.7	Copper	mg/L	8.80	7.76	1.00	104	70 - 130	X534067 - X5H0126-01	19-Aug-25	
EPA 200.7	Copper	mg/L	0.948	<0.0100	1.00	94.8	70 - 130	X534067 - X5H0203-06	19-Aug-25	
EPA 200.7	Iron	mg/L	10.3	<0.100	10.0	103	70 - 130	X534067 - X5H0126-01	19-Aug-25	
EPA 200.7	Iron	mg/L	10.0	<0.100	10.0	99.7	70 - 130	X534067 - X5H0203-06	19-Aug-25	
EPA 200.7	Lead	mg/L	1.05	0.0828	1.00	96.6	70 - 130	X534067 - X5H0126-01	19-Aug-25	
EPA 200.7	Lead	mg/L	0.945	<0.0075	1.00	94.5	70 - 130	X534067 - X5H0203-06	19-Aug-25	
EPA 200.7	Lithium	mg/L	1.36	0.066	1.00	130	70 - 130	X534067 - X5H0126-01	19-Aug-25	
EPA 200.7	Lithium	mg/L	1.04	<0.040	1.00	104	70 - 130	X534067 - X5H0203-06	19-Aug-25	
EPA 200.7	Magnesium	mg/L	359	324	20.0	0.30R>S	70 - 130	X534067 - X5H0126-01	19-Aug-25	M3
EPA 200.7	Magnesium	mg/L	31.4	11.7	20.0	98.5	70 - 130	X534067 - X5H0203-06	19-Aug-25	
EPA 200.7	Manganese	mg/L	38.0	36.6	1.00	0.30R>S	70 - 130	X534067 - X5H0126-01	19-Aug-25	M3

SVL holds the following certifications:

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

Work order Report Page 10 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: **X5H0162**

Reported: 28-Aug-25 09:15

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Manganese	mg/L	1.06	0.0841	1.00	97.7	70 - 130	X534067 - X5H0203-06	19-Aug-25	
EPA 200.7	Molybdenum	mg/L	1.03	<0.0080	1.00	103	70 - 130	X534067 - X5H0126-01	19-Aug-25	
EPA 200.7	Molybdenum	mg/L	1.01	0.0083	1.00	100	70 - 130	X534067 - X5H0203-06	19-Aug-25	
EPA 200.7	Nickel	mg/L	1.30	0.340	1.00	95.9	70 - 130	X534067 - X5H0126-01	19-Aug-25	
EPA 200.7	Nickel	mg/L	0.931	<0.0100	1.00	92.2	70 - 130	X534067 - X5H0203-06	19-Aug-25	
EPA 200.7	Potassium	mg/L	31.8	10.3	20.0	108	70 - 130	X534067 - X5H0126-01	19-Aug-25	
EPA 200.7	Potassium	mg/L	21.7	1.20	20.0	102	70 - 130	X534067 - X5H0203-06	19-Aug-25	
EPA 200.7	Silver	mg/L	0.0563	<0.0050	0.0500	113	70 - 130	X534067 - X5H0126-01	19-Aug-25	
EPA 200.7	Silver	mg/L	0.0516	<0.0050	0.0500	103	70 - 130	X534067 - X5H0203-06	19-Aug-25	
EPA 200.7	Sodium	mg/L	118	96.1	19.0	114	70 - 130	X534067 - X5H0126-01	19-Aug-25	
EPA 200.7	Sodium	mg/L	52.0	33.9	19.0	95.5	70 - 130	X534067 - X5H0203-06	19-Aug-25	
EPA 200.7	Vanadium	mg/L	0.719	<0.0050	1.00	71.9	70 - 130	X534067 - X5H0126-01	19-Aug-25	
EPA 200.7	Vanadium	mg/L	1.00	<0.0050	1.00	100	70 - 130	X534067 - X5H0203-06	19-Aug-25	
EPA 200.7	Zinc	mg/L	26.7	25.8	1.00	86.6	70 - 130	X534067 - X5H0126-01	19-Aug-25	
EPA 200.7	Zinc	mg/L	1.01	0.0145	1.00	99.7	70 - 130	X534067 - X5H0203-06	19-Aug-25	
EPA 200.8	Antimony	mg/L	0.0239	<0.00100	0.0250	95.7	70 - 130	X534008 - X5H0162-02	27-Aug-25	
EPA 200.8	Antimony	mg/L	0.0256	0.00120	0.0250	97.4	70 - 130	X534008 - X5H0203-05	27-Aug-25	
EPA 200.8	Arsenic	mg/L	0.0246	<0.00100	0.0250	98.2	70 - 130	X534008 - X5H0162-02	27-Aug-25	
EPA 200.8	Arsenic	mg/L	0.0268	0.00227	0.0250	98.3	70 - 130	X534008 - X5H0203-05	27-Aug-25	
EPA 200.8	Selenium	mg/L	0.0255	<0.00100	0.0250	102	70 - 130	X534008 - X5H0162-02	27-Aug-25	
EPA 200.8	Selenium	mg/L	0.0256	<0.00100	0.0250	101	70 - 130	X534008 - X5H0203-05	27-Aug-25	
EPA 200.8	Thallium	mg/L	0.0233	<0.000200	0.0250	93.3	70 - 130	X534008 - X5H0162-02	27-Aug-25	
EPA 200.8	Thallium	mg/L	0.0239	<0.000200	0.0250	95.7	70 - 130	X534008 - X5H0203-05	27-Aug-25	
EPA 200.8	Uranium	mg/L	0.0278	0.00318	0.0250	98.6	70 - 130	X534008 - X5H0162-02	27-Aug-25	
EPA 200.8	Uranium	mg/L	0.0285	0.00272	0.0250	103	70 - 130	X534008 - X5H0203-05	27-Aug-25	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00500	0.00292	0.00200	104	70 - 130	X534038 - X5H0270-01	22-Aug-25	
EPA 245.1	Mercury	mg/L	0.00215	<0.000200	0.00200	107	70 - 130	X534038 - X5H0306-01	22-Aug-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0996	<0.0050	0.100	99.6	79 - 121	X534085 - X5H0162-03	22-Aug-25	
EPA 335.4	Cyanide (total)	mg/L	0.108	<0.0050	0.100	108	90 - 110	X534082 - X5H0116-05	20-Aug-25	
EPA 335.4	Cyanide (total)	mg/L	0.101	<0.0050	0.100	101	90 - 110	X534082 - X5H0116-04	20-Aug-25	
EPA 350.1	Ammonia as N	mg/L	0.937	<0.030	1.00	93.7	90 - 110	X533174 - X5H0162-01	19-Aug-25	
EPA 350.1	Ammonia as N	mg/L	0.885	<0.030	1.00	88.5	90 - 110	X533174 - X5H0203-03	19-Aug-25	M2
OIA 1677	Cyanide (WAD)	mg/L	0.0937	<0.0050	0.100	93.7	82 - 118	X533120 - X5H0123-05	14-Aug-25	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.82	1.82	3.00	100	90 - 110	X533081 - X5H0162-01	12-Aug-25	
EPA 300.0	Chloride	mg/L	19.7	17.3	3.00	0.30R>S	90 - 110	X533081 - X5H0183-01	12-Aug-25	M4
EPA 300.0	Fluoride	mg/L	2.14	0.196	2.00	97.1	90 - 110	X533081 - X5H0162-01	12-Aug-25	
EPA 300.0	Fluoride	mg/L	1.94	0.135	2.00	90.2	90 - 110	X533081 - X5H0183-01	12-Aug-25	
EPA 300.0	Nitrate as N	mg/L	2.73	0.773	2.00	97.6	90 - 110	X533081 - X5H0162-01	12-Aug-25	
EPA 300.0	Nitrate as N	mg/L	8.29	6.59	2.00	84.9	90 - 110	X533081 - X5H0183-01	12-Aug-25	M4
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.73	0.777	4.00	98.8	90 - 110	X533081 - X5H0162-01	12-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	10.5	6.71	4.00	95.2	90 - 110	X533081 - X5H0183-01	12-Aug-25	
EPA 300.0	Nitrite as N	mg/L	2.00	<0.050	2.00	100	90 - 110	X533081 - X5H0162-01	12-Aug-25	
EPA 300.0	Nitrite as N	mg/L	2.23	0.199	2.00	102	90 - 110	X533081 - X5H0183-01	12-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	29.8	19.3	10.0	105	90 - 110	X533081 - X5H0162-01	12-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	120	109	10.0	106	90 - 110	X533081 - X5H0183-01	12-Aug-25	

SVL holds the following certifications:

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

Work order Report Page 11 of 13

**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: **X5H0162**

Reported: 28-Aug-25 09:15

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	66.8	66.6	20.0	0.3	20	92	X534141 - X5H0160-01	
EPA 200.7	Magnesium	mg/L	34.0	34.0	20.0	0.0	20	107	X534141 - X5H0160-01	
EPA 200.7	Potassium	mg/L	34.2	34.1	20.0	0.3	20	99.4	X534141 - X5H0160-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	20.9	21.1	1.00	0.9	20	122	X534067 - X5H0126-01	
EPA 200.7	Barium	mg/L	0.976	1.02	1.00	4.3	20	96.4	X534067 - X5H0126-01	
EPA 200.7	Beryllium	mg/L	1.04	1.03	1.00	0.4	20	103	X534067 - X5H0126-01	
EPA 200.7	Boron	mg/L	1.14	1.16	1.00	1.9	20	108	X534067 - X5H0126-01	
EPA 200.7	Cadmium	mg/L	1.05	1.06	1.00	1.2	20	93.0	X534067 - X5H0126-01	
EPA 200.7	Calcium	mg/L	455	467	20.0	2.5	20	98.1	X534067 - X5H0126-01	B7
EPA 200.7	Chromium	mg/L	0.983	0.995	1.00	1.2	20	97.5	X534067 - X5H0126-01	
EPA 200.7	Cobalt	mg/L	1.15	1.16	1.00	1.0	20	95.0	X534067 - X5H0126-01	
EPA 200.7	Copper	mg/L	8.75	8.80	1.00	0.6	20	98.6	X534067 - X5H0126-01	
EPA 200.7	Iron	mg/L	9.99	10.3	10.0	2.6	20	99.9	X534067 - X5H0126-01	
EPA 200.7	Lead	mg/L	1.04	1.05	1.00	1.1	20	95.5	X534067 - X5H0126-01	
EPA 200.7	Lithium	mg/L	1.34	1.36	1.00	1.7	20	128	X534067 - X5H0126-01	
EPA 200.7	Magnesium	mg/L	349	359	20.0	2.9	20	125	X534067 - X5H0126-01	
EPA 200.7	Manganese	mg/L	37.6	38.0	1.00	1.2	20	98.6	X534067 - X5H0126-01	
EPA 200.7	Molybdenum	mg/L	1.02	1.03	1.00	0.9	20	102	X534067 - X5H0126-01	
EPA 200.7	Nickel	mg/L	1.29	1.30	1.00	0.9	20	94.8	X534067 - X5H0126-01	
EPA 200.7	Potassium	mg/L	31.1	31.8	20.0	2.4	20	104	X534067 - X5H0126-01	
EPA 200.7	Silver	mg/L	0.0551	0.0563	0.0500	2.1	20	110	X534067 - X5H0126-01	
EPA 200.7	Sodium	mg/L	115	118	19.0	2.4	20	99.6	X534067 - X5H0126-01	
EPA 200.7	Vanadium	mg/L	0.714	0.719	1.00	0.7	20	71.4	X534067 - X5H0126-01	
EPA 200.7	Zinc	mg/L	26.3	26.7	1.00	1.5	20	0.30R>S	X534067 - X5H0126-01	M3
EPA 200.8	Antimony	mg/L	0.0242	0.0239	0.0250	1.1	20	96.7	X534008 - X5H0162-02	
EPA 200.8	Arsenic	mg/L	0.0246	0.0246	0.0250	0.3	20	98.6	X534008 - X5H0162-02	
EPA 200.8	Selenium	mg/L	0.0257	0.0255	0.0250	0.6	20	103	X534008 - X5H0162-02	
EPA 200.8	Thallium	mg/L	0.0234	0.0233	0.0250	0.4	20	93.7	X534008 - X5H0162-02	
EPA 200.8	Uranium	mg/L	0.0283	0.0278	0.0250	1.6	20	100	X534008 - X5H0162-02	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00499	0.00500	0.00200	0.0	20	104	X534038 - X5H0270-01	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.104	0.0996	0.100	4.4	11	104	X534085 - X5H0162-03	
EPA 335.4	Cyanide (total)	mg/L	0.105	0.108	0.100	2.5	20	105	X534082 - X5H0116-05	
EPA 350.1	Ammonia as N	mg/L	0.933	0.937	1.00	0.4	20	93.3	X533174 - X5H0162-01	
OIA 1677	Cyanide (WAD)	mg/L	0.0976	0.0937	0.100	4.1	11	97.6	X533120 - X5H0123-05	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.90	4.82	3.00	1.7	20	103	X533081 - X5H0162-01	
EPA 300.0	Fluoride	mg/L	2.24	2.14	2.00	4.8	20	102	X533081 - X5H0162-01	
EPA 300.0	Nitrate as N	mg/L	2.80	2.73	2.00	2.6	20	101	X533081 - X5H0162-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.82	4.73	4.00	1.9	20	101	X533081 - X5H0162-01	
EPA 300.0	Nitrite as N	mg/L	2.02	2.00	2.00	1.0	20	101	X533081 - X5H0162-01	
EPA 300.0	Sulfate as SO4	mg/L	30.0	29.8	10.0	0.6	20	107	X533081 - X5H0162-01	



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: **X5H0162**

Reported: 28-Aug-25 09:15

Notes and Definitions

B7	Target analyte detected in method blank at or above method limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
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: **X5H0203**

Reported: 28-Aug-25 10:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-7A	X5H0203-01	Ground Water	12-Aug-25 12:20	JC	13-Aug-2025	
GVMW-7B	X5H0203-02	Ground Water	12-Aug-25 12:30	JC	13-Aug-2025	
GVMW-22A	X5H0203-03	Ground Water	12-Aug-25 09:50	JC	13-Aug-2025	
GVMW-22B	X5H0203-04	Ground Water	12-Aug-25 09:42	JC	13-Aug-2025	
GVMW-37A	X5H0203-05	Ground Water	12-Aug-25 10:50	JC	13-Aug-2025	
GVMW-37B	X5H0203-06	Ground Water	12-Aug-25 10:36	JC	13-Aug-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: X5H0203

The state of origin only accredits for drinking water analyses.

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



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

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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: **X5H0203**

Reported: 28-Aug-25 10:02

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

Sampled: 12-Aug-25 12:20

Received: 13-Aug-25

Sampled By: JC

SVL Sample ID: **X5H0203-01 (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	49.3	mg/L	0.100	0.069		X534230	MAC	08/27/25 10:57	
EPA 200.7	Magnesium	21.8	mg/L	0.500	0.090		X534230	MAC	08/27/25 10:57	
EPA 200.7	Potassium	1.03	mg/L	0.50	0.18		X534230	MAC	08/27/25 10:57	
SM 2340 B	Hardness (as CaCO3)	205	mg/L	2.31	0.543		N/A		08/19/25 09:06	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X534067	NMS	08/19/25 09:06	
EPA 200.7	Barium	0.206	mg/L	0.0020	0.0019		X534067	NMS	08/19/25 09:06	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X534067	NMS	08/19/25 09:06	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X534067	NMS	08/19/25 09:06	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X534067	NMS	08/19/25 09:06	
EPA 200.7	Calcium	46.1	mg/L	0.100	0.069		X534067	NMS	08/19/25 09:06	B7
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X534067	NMS	08/19/25 09:06	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X534067	NMS	08/19/25 09:06	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X534067	NMS	08/19/25 09:06	
EPA 200.7	Iron	1.28	mg/L	0.100	0.056		X534067	NMS	08/19/25 09:06	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X534067	NMS	08/19/25 09:06	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X534067	NMS	08/19/25 09:06	
EPA 200.7	Magnesium	20.7	mg/L	0.500	0.090		X534067	NMS	08/19/25 09:06	
EPA 200.7	Manganese	0.251	mg/L	0.0080	0.0034		X534067	NMS	08/19/25 09:06	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X534067	NMS	08/19/25 09:06	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X534067	NMS	08/19/25 09:06	
EPA 200.7	Potassium	1.00	mg/L	0.50	0.18		X534067	NMS	08/19/25 09:06	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X534067	NMS	08/19/25 09:06	
EPA 200.7	Sodium	10.1	mg/L	0.50	0.12		X534067	NMS	08/19/25 09:06	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X534067	NMS	08/19/25 09:06	
EPA 200.7	Zinc	0.0139	mg/L	0.0100	0.0054		X534067	NMS	08/19/25 09:06	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X534008	SMU	08/27/25 17:24	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X534008	SMU	08/27/25 17:24	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X534008	SMU	08/27/25 17:24	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X534008	SMU	08/27/25 17:24	
EPA 200.8	Uranium	0.00454	mg/L	0.000100	0.000052		X534008	SMU	08/27/25 17:24	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X534036	MAC	08/19/25 21:39	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X534085	ORW	08/22/25 17:06	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X534083	ORW	08/20/25 15:09	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X534160	ORW	08/22/25 15:07	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X534162	ORW	08/26/25 16:37	
SM 2310 B	Acidity to pH 8.3	-185	mg/L as CaCO3	10.0			X535012	MWD	08/25/25 13:04	
SM 2320 B	Total Alkalinity	184	mg/L as CaCO3	1.0			X534116	MWD	08/20/25 15:58	
SM 2320 B	Bicarbonate	184	mg/L as CaCO3	1.0			X534116	MWD	08/20/25 15:58	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X534116	MWD	08/20/25 15:58	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X534116	MWD	08/20/25 15:58	
SM 2540 C	Total Diss. Solids	275	mg/L	10			X533233	TJL	08/18/25 13:20	
SM 2540 D	Total Susp. Solids	6.0	mg/L	5.0			X533234	TJL	08/18/25 14:40	
SM 4500 H B	pH @23.3°C	7.7	pH Units				X534116	MWD	08/20/25 15:58	H5

SVL holds the following certifications:

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

Work order Report Page 2 of 19



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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 2024 Work Order: X5H0203 Reported: 28-Aug-25 10:02
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Client Sample ID: **GVMW-7A**
SVL Sample ID: **X5H0203-01 (Ground Water)**

Sampled: 12-Aug-25 12:20
Received: 13-Aug-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	18.5	mg/L	2.00	0.22	10	X533129	RS	08/13/25 15:09	
EPA 300.0	Fluoride	0.770	mg/L	0.100	0.017		X533129	RS	08/13/25 14:53	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X533129	RS	08/13/25 14:53	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X533129	RS	08/13/25 14:53	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X533129	RS	08/13/25 14:53	
EPA 300.0	Sulfate as SO4	25.4	mg/L	0.30	0.18		X533129	RS	08/13/25 14:53	

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.54 meq/L	Anion Sum: 4.77 meq/L	C/A Balance: -2.50 %	Calculated TDS: 235	TDS/cTDS: 1.17
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This data has been reviewed for accuracy and has been authorized for release.

Kristi A. Groth

Kristi A. Groth
Project Manager



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net**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: **X5H0203**

Reported: 28-Aug-25 10:02

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

Sampled: 12-Aug-25 12:30

Received: 13-Aug-25

Sampled By: JC

SVL Sample ID: **X5H0203-02 (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	63.7	mg/L	0.100	0.069		X534230	MAC	08/27/25 11:01	
EPA 200.7	Magnesium	25.8	mg/L	0.500	0.090		X534230	MAC	08/27/25 11:01	
EPA 200.7	Potassium	1.38	mg/L	0.50	0.18		X534230	MAC	08/27/25 11:01	
SM 2340 B	Hardness (as CaCO3)	265	mg/L	2.31	0.543		N/A		08/19/25 09:08	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X534067	NMS	08/19/25 09:08	
EPA 200.7	Barium	0.0358	mg/L	0.0020	0.0019		X534067	NMS	08/19/25 09:08	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X534067	NMS	08/19/25 09:08	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X534067	NMS	08/19/25 09:08	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X534067	NMS	08/19/25 09:08	
EPA 200.7	Calcium	60.6	mg/L	0.100	0.069		X534067	NMS	08/19/25 09:08	B7
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X534067	NMS	08/19/25 09:08	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X534067	NMS	08/19/25 09:08	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X534067	NMS	08/19/25 09:08	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X534067	NMS	08/19/25 09:08	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X534067	NMS	08/19/25 09:08	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X534067	NMS	08/19/25 09:08	
EPA 200.7	Magnesium	24.8	mg/L	0.500	0.090		X534067	NMS	08/19/25 09:08	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X534067	NMS	08/19/25 09:08	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X534067	NMS	08/19/25 09:08	
EPA 200.7	Nickel	0.0114	mg/L	0.0100	0.0048		X534067	NMS	08/19/25 09:08	
EPA 200.7	Potassium	1.41	mg/L	0.50	0.18		X534067	NMS	08/19/25 09:08	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X534067	NMS	08/19/25 09:08	
EPA 200.7	Sodium	12.8	mg/L	0.50	0.12		X534067	NMS	08/19/25 09:08	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X534067	NMS	08/19/25 09:08	
EPA 200.7	Zinc	0.0167	mg/L	0.0100	0.0054		X534067	NMS	08/19/25 09:08	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X534008	SMU	08/27/25 17:27	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X534008	SMU	08/27/25 17:27	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X534008	SMU	08/27/25 17:27	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X534008	SMU	08/27/25 17:27	
EPA 200.8	Uranium	0.00591	mg/L	0.000100	0.000052		X534008	SMU	08/27/25 17:27	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X534036	MAC	08/19/25 21:42	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X534085	ORW	08/22/25 17:09	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X534083	ORW	08/20/25 15:11	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X533174	JPM	08/19/25 20:58	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X534162	ORW	08/26/25 16:40	
SM 2310 B	Acidity to pH 8.3	-116	mg/L as CaCO3	10.0			X535012	MWD	08/25/25 13:04	
SM 2320 B	Total Alkalinity	118	mg/L as CaCO3	1.0			X534116	MWD	08/20/25 16:04	
SM 2320 B	Bicarbonate	118	mg/L as CaCO3	1.0			X534116	MWD	08/20/25 16:04	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X534116	MWD	08/20/25 16:04	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X534116	MWD	08/20/25 16:04	
SM 2540 C	Total Diss. Solids	369	mg/L	10			X533233	TJL	08/18/25 13:20	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X533234	TJL	08/18/25 14:40	
SM 4500 H B	pH @23.3°C	7.4	pH Units				X534116	MWD	08/20/25 16:04	H5

SVL holds the following certifications:

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

Work order Report Page 4 of 19



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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: X5H0203 Reported: 28-Aug-25 10:02
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Client Sample ID: **GVMW-7B**
SVL Sample ID: **X5H0203-02 (Ground Water)**

Sampled: 12-Aug-25 12:30
Received: 13-Aug-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	22.1	mg/L	2.00	0.22	10	X533129	RS	08/13/25 15:40	
EPA 300.0	Fluoride	0.333	mg/L	0.100	0.017		X533129	RS	08/13/25 15:24	
EPA 300.0	Nitrate as N	0.737	mg/L	0.050	0.013		X533129	RS	08/13/25 15:24	
EPA 300.0	Nitrate+Nitrite as N	0.737	mg/L	0.100	0.044		X533129	RS	08/13/25 15:24	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X533129	RS	08/13/25 15:24	
EPA 300.0	Sulfate as SO4	129	mg/L	3.00	1.80	10	X533129	RS	08/13/25 15:40	

Cation/Anion Balance and TDS Ratios

Cation Sum: 5.67 meq/L	Anion Sum: 5.74 meq/L	C/A Balance: -0.58 %	Calculated TDS: 327	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



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: **X5H0203**

Reported: 28-Aug-25 10:02

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

Sampled: 12-Aug-25 09:50

Received: 13-Aug-25

Sampled By: JC

SVL Sample ID: **X5H0203-03 (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	30.0	mg/L	0.100	0.069		X534230	MAC	08/27/25 11:05	
EPA 200.7	Magnesium	11.8	mg/L	0.500	0.090		X534230	MAC	08/27/25 11:05	
EPA 200.7	Potassium	1.29	mg/L	0.50	0.18		X534230	MAC	08/27/25 11:05	
SM 2340 B	Hardness (as CaCO3)	118	mg/L	2.31	0.543		N/A		08/27/25 11:05	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X534067	NMS	08/19/25 09:10	
EPA 200.7	Barium	0.102	mg/L	0.0020	0.0019		X534067	NMS	08/19/25 09:10	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X534067	NMS	08/19/25 09:10	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X534067	NMS	08/19/25 09:10	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X534067	NMS	08/19/25 09:10	
EPA 200.7	Calcium	28.5	mg/L	0.100	0.069		X534067	NMS	08/19/25 09:10	B7
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X534067	NMS	08/19/25 09:10	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X534067	NMS	08/19/25 09:10	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X534067	NMS	08/19/25 09:10	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X534067	NMS	08/19/25 09:10	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X534067	NMS	08/19/25 09:10	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X534067	NMS	08/19/25 09:10	
EPA 200.7	Magnesium	11.3	mg/L	0.500	0.090		X534067	NMS	08/19/25 09:10	
EPA 200.7	Manganese	0.0912	mg/L	0.0080	0.0034		X534067	NMS	08/19/25 09:10	
EPA 200.7	Molybdenum	0.0092	mg/L	0.0080	0.0034		X534067	NMS	08/19/25 09:10	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X534067	NMS	08/19/25 09:10	
EPA 200.7	Potassium	1.31	mg/L	0.50	0.18		X534067	NMS	08/19/25 09:10	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X534067	NMS	08/19/25 09:10	
EPA 200.7	Sodium	36.3	mg/L	0.50	0.12		X534067	NMS	08/19/25 09:10	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X534067	NMS	08/19/25 09:10	
EPA 200.7	Zinc	0.0192	mg/L	0.0100	0.0054		X534067	NMS	08/19/25 09:10	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X534008	SMU	08/27/25 17:29	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X534008	SMU	08/27/25 17:29	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X534008	SMU	08/27/25 17:29	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X534008	SMU	08/27/25 17:29	
EPA 200.8	Uranium	0.00360	mg/L	0.000100	0.000052		X534008	SMU	08/27/25 17:29	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X534036	MAC	08/19/25 21:44	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X534085	ORW	08/22/25 17:12	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X534083	ORW	08/20/25 15:12	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X533174	JPM	08/19/25 21:01	M2
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X534162	ORW	08/26/25 16:43	
SM 2310 B	Acidity to pH 8.3	-162	mg/L as CaCO3	10.0			X535012	MWD	08/25/25 13:04	
SM 2320 B	Total Alkalinity	165	mg/L as CaCO3	1.0			X534116	MWD	08/20/25 16:20	
SM 2320 B	Bicarbonate	165	mg/L as CaCO3	1.0			X534116	MWD	08/20/25 16:20	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X534116	MWD	08/20/25 16:20	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X534116	MWD	08/20/25 16:20	
SM 2540 C	Total Diss. Solids	224	mg/L	10			X533233	TJL	08/18/25 13:20	
SM 2540 D	Total Susp. Solids	5.0	mg/L	5.0			X533234	TJL	08/18/25 14:40	
SM 4500 H B	pH @23.4°C	7.9	pH Units				X534116	MWD	08/20/25 16:20	H5

SVL holds the following certifications:

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

Work order Report Page 6 of 19



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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: X5H0203 Reported: 28-Aug-25 10:02
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Client Sample ID: **GVMW-22A**
SVL Sample ID: **X5H0203-03 (Ground Water)**

Sampled: 12-Aug-25 09:50
Received: 13-Aug-25
Sampled By: JC

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	3.85	mg/L	0.20	0.02		X533129	RS	08/13/25 16:38	
EPA 300.0	Fluoride	2.14	mg/L	0.100	0.017		X533129	RS	08/13/25 16:38	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X533129	RS	08/13/25 16:38	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X533129	RS	08/13/25 16:38	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X533129	RS	08/13/25 16:38	
EPA 300.0	Sulfate as SO4	31.7	mg/L	0.30	0.18		X533129	RS	08/13/25 16:38	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.98 meq/L	Anion Sum: 4.18 meq/L	C/A Balance: -2.44 %	Calculated TDS: 215	TDS/cTDS: 1.04
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This data has been reviewed for accuracy and has been authorized for release.

Kristi A. Groth

Kristi A. Groth
Project Manager



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net**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: **X5H0203**

Reported: 28-Aug-25 10:02

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

Sampled: 12-Aug-25 09:42

SVL Sample ID: **X5H0203-04 (Ground Water)**

Received: 13-Aug-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	37.1	mg/L	0.100	0.069		X534230	MAC	08/27/25 11:08	
EPA 200.7	Magnesium	9.98	mg/L	0.500	0.090		X534230	MAC	08/27/25 11:08	
EPA 200.7	Potassium	1.67	mg/L	0.50	0.18		X534230	MAC	08/27/25 11:08	
SM 2340 B	Hardness (as CaCO3)	128	mg/L	2.31	0.543		N/A		08/19/25 09:11	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X534067	NMS	08/19/25 09:11	
EPA 200.7	Barium	0.0570	mg/L	0.0020	0.0019		X534067	NMS	08/19/25 09:11	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X534067	NMS	08/19/25 09:11	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X534067	NMS	08/19/25 09:11	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X534067	NMS	08/19/25 09:11	
EPA 200.7	Calcium	34.8	mg/L	0.100	0.069		X534067	NMS	08/19/25 09:11	B7
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X534067	NMS	08/19/25 09:11	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X534067	NMS	08/19/25 09:11	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X534067	NMS	08/19/25 09:11	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X534067	NMS	08/19/25 09:11	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X534067	NMS	08/19/25 09:11	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X534067	NMS	08/19/25 09:11	
EPA 200.7	Magnesium	9.43	mg/L	0.500	0.090		X534067	NMS	08/19/25 09:11	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X534067	NMS	08/19/25 09:11	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X534067	NMS	08/19/25 09:11	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X534067	NMS	08/19/25 09:11	
EPA 200.7	Potassium	1.54	mg/L	0.50	0.18		X534067	NMS	08/19/25 09:11	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X534067	NMS	08/19/25 09:11	
EPA 200.7	Sodium	21.8	mg/L	0.50	0.12		X534067	NMS	08/19/25 09:11	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X534067	NMS	08/19/25 09:11	
EPA 200.7	Zinc	0.0133	mg/L	0.0100	0.0054		X534067	NMS	08/19/25 09:11	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X534008	SMU	08/27/25 17:41	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X534008	SMU	08/27/25 17:41	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X534008	SMU	08/27/25 17:41	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X534008	SMU	08/27/25 17:41	
EPA 200.8	Uranium	0.000934	mg/L	0.000100	0.000052		X534008	SMU	08/27/25 17:41	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X534036	MAC	08/19/25 21:46	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X534085	ORW	08/22/25 17:15	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X534083	ORW	08/20/25 15:21	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X533174	JPM	08/19/25 21:03	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X534162	ORW	08/26/25 16:46	
SM 2310 B	Acidity to pH 8.3	-78.7	mg/L as CaCO3	10.0			X535012	MWD	08/25/25 13:04	
SM 2320 B	Total Alkalinity	76.1	mg/L as CaCO3	1.0			X534116	MWD	08/20/25 16:26	
SM 2320 B	Bicarbonate	76.1	mg/L as CaCO3	1.0			X534116	MWD	08/20/25 16:26	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X534116	MWD	08/20/25 16:26	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X534116	MWD	08/20/25 16:26	
SM 2540 C	Total Diss. Solids	238	mg/L	10			X533233	TJL	08/18/25 13:20	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X533234	TJL	08/18/25 14:40	
SM 4500 H B	pH @23.5°C	7.2	pH Units				X534116	MWD	08/20/25 16:26	H5

SVL holds the following certifications:

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

Work order Report Page 8 of 19



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: X5H0203 Reported: 28-Aug-25 10:02
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Client Sample ID: **GVMW-22B**
SVL Sample ID: **X5H0203-04 (Ground Water)**

Sampled: 12-Aug-25 09:42
Received: 13-Aug-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	7.63	mg/L	0.20	0.02		X533129	RS	08/13/25 17:09	
EPA 300.0	Fluoride	0.350	mg/L	0.100	0.017		X533129	RS	08/13/25 17:09	
EPA 300.0	Nitrate as N	0.366	mg/L	0.050	0.013		X533129	RS	08/13/25 17:09	
EPA 300.0	Nitrate+Nitrite as N	0.366	mg/L	0.100	0.044		X533129	RS	08/13/25 17:09	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X533129	RS	08/13/25 17:09	
EPA 300.0	Sulfate as SO4	94.2	mg/L	3.00	1.80	10	X533129	RS	08/13/25 17:25	

Cation/Anion Balance and TDS Ratios										
Cation Sum: 3.51 meq/L	Anion Sum: 3.74 meq/L	C/A Balance: -3.13 %	Calculated TDS: 219	TDS/cTDS: 1.09						

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

Kristi A. Groth

Kristi A. Groth
Project Manager



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net

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: **X5H0203**

Reported: 28-Aug-25 10:02

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

Sampled: 12-Aug-25 10:50

Received: 13-Aug-25

Sampled By: JC

SVL Sample ID: **X5H0203-05 (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	39.3	mg/L	0.100	0.069		X534230	MAC	08/27/25 11:12	
EPA 200.7	Magnesium	9.88	mg/L	0.500	0.090		X534230	MAC	08/27/25 11:12	
EPA 200.7	Potassium	3.60	mg/L	0.50	0.18		X534230	MAC	08/27/25 11:12	
SM 2340 B	Hardness (as CaCO3)	137	mg/L	2.31	0.543		N/A		08/27/25 11:12	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X534067	NMS	08/19/25 09:13	
EPA 200.7	Barium	0.0659	mg/L	0.0020	0.0019		X534067	NMS	08/19/25 09:13	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X534067	NMS	08/19/25 09:13	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X534067	NMS	08/19/25 09:13	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X534067	NMS	08/19/25 09:13	
EPA 200.7	Calcium	37.2	mg/L	0.100	0.069		X534067	NMS	08/19/25 09:13	B7
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X534067	NMS	08/19/25 09:13	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X534067	NMS	08/19/25 09:13	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X534067	NMS	08/19/25 09:13	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X534067	NMS	08/19/25 09:13	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X534067	NMS	08/19/25 09:13	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X534067	NMS	08/19/25 09:13	
EPA 200.7	Magnesium	9.34	mg/L	0.500	0.090		X534067	NMS	08/19/25 09:13	
EPA 200.7	Manganese	0.0463	mg/L	0.0080	0.0034		X534067	NMS	08/19/25 09:13	
EPA 200.7	Molybdenum	0.0215	mg/L	0.0080	0.0034		X534067	NMS	08/19/25 09:13	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X534067	NMS	08/19/25 09:13	
EPA 200.7	Potassium	3.52	mg/L	0.50	0.18		X534067	NMS	08/19/25 09:13	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X534067	NMS	08/19/25 09:13	
EPA 200.7	Sodium	35.7	mg/L	0.50	0.12		X534067	NMS	08/19/25 09:13	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X534067	NMS	08/19/25 09:13	
EPA 200.7	Zinc	0.0140	mg/L	0.0100	0.0054		X534067	NMS	08/19/25 09:13	
EPA 200.8	Antimony	0.00120	mg/L	0.00100	0.00072		X534008	SMU	08/27/25 17:44	
EPA 200.8	Arsenic	0.00227	mg/L	0.00100	0.00021		X534008	SMU	08/27/25 17:44	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X534008	SMU	08/27/25 17:44	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X534008	SMU	08/27/25 17:44	
EPA 200.8	Uranium	0.00272	mg/L	0.000100	0.000052		X534008	SMU	08/27/25 17:44	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X534036	MAC	08/19/25 21:48	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X534085	ORW	08/22/25 17:18	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X534083	ORW	08/20/25 15:22	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X533174	JPM	08/19/25 21:06	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X534162	ORW	08/26/25 16:49	
SM 2310 B	Acidity to pH 8.3	-51.0	mg/L as CaCO3	10.0			X535012	MWD	08/25/25 13:04	
SM 2320 B	Total Alkalinity	51.5	mg/L as CaCO3	1.0			X534116	MWD	08/20/25 16:31	
SM 2320 B	Bicarbonate	43.3	mg/L as CaCO3	1.0			X534116	MWD	08/20/25 16:31	
SM 2320 B	Carbonate	8.2	mg/L as CaCO3	1.0			X534116	MWD	08/20/25 16:31	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X534116	MWD	08/20/25 16:31	
SM 2540 C	Total Diss. Solids	333	mg/L	10			X533233	TJL	08/18/25 13:20	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X533234	TJL	08/18/25 14:40	
SM 4500 H B	pH @23.5°C	8.8	pH Units				X534116	MWD	08/20/25 16:31	H5

SVL holds the following certifications:

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

Work order Report Page 10 of 19



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: X5H0203 Reported: 28-Aug-25 10:02
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Client Sample ID: **GVMW-37A**
SVL Sample ID: **X5H0203-05 (Ground Water)**

Sampled: 12-Aug-25 10:50
Received: 13-Aug-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	3.61	mg/L	0.20	0.02		X533129	RS	08/13/25 17:40	
EPA 300.0	Fluoride	1.38	mg/L	0.100	0.017		X533129	RS	08/13/25 17:40	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X533129	RS	08/13/25 17:40	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X533129	RS	08/13/25 17:40	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X533129	RS	08/13/25 17:40	
EPA 300.0	Sulfate as SO4	172	mg/L	3.00	1.80	10	X533129	RS	08/13/25 17:56	

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.28 meq/L	Anion Sum: 4.79 meq/L	C/A Balance: -5.56 %	Calculated TDS: 295	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



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: **X5H0203**

Reported: 28-Aug-25 10:02

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

Sampled: 12-Aug-25 10:36

Received: 13-Aug-25

Sampled By: JC

SVL Sample ID: **X5H0203-06 (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	74.5	mg/L	0.100	0.069		X534230	MAC	08/27/25 11:16	
EPA 200.7	Magnesium	12.4	mg/L	0.500	0.090		X534230	MAC	08/27/25 11:16	
EPA 200.7	Potassium	1.55	mg/L	0.50	0.18		X534230	MAC	08/27/25 11:16	
SM 2340 B	Hardness (as CaCO3)	234	mg/L	2.31	0.543		N/A		08/27/25 11:16	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X534067	NMS	08/19/25 09:15	
EPA 200.7	Barium	0.0722	mg/L	0.0020	0.0019		X534067	NMS	08/19/25 09:15	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X534067	NMS	08/19/25 09:15	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X534067	NMS	08/19/25 09:15	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X534067	NMS	08/19/25 09:15	
EPA 200.7	Calcium	71.5	mg/L	0.100	0.069		X534067	NMS	08/19/25 09:15	B7
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X534067	NMS	08/19/25 09:15	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X534067	NMS	08/19/25 09:15	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X534067	NMS	08/19/25 09:15	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X534067	NMS	08/19/25 09:15	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X534067	NMS	08/19/25 09:15	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X534067	NMS	08/19/25 09:15	
EPA 200.7	Magnesium	11.7	mg/L	0.500	0.090		X534067	NMS	08/19/25 09:15	
EPA 200.7	Manganese	0.0841	mg/L	0.0080	0.0034		X534067	NMS	08/19/25 09:15	
EPA 200.7	Molybdenum	0.0083	mg/L	0.0080	0.0034		X534067	NMS	08/19/25 09:15	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X534067	NMS	08/19/25 09:15	
EPA 200.7	Potassium	1.20	mg/L	0.50	0.18		X534067	NMS	08/19/25 09:15	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X534067	NMS	08/19/25 09:15	
EPA 200.7	Sodium	33.9	mg/L	0.50	0.12		X534067	NMS	08/19/25 09:15	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X534067	NMS	08/19/25 09:15	
EPA 200.7	Zinc	0.0145	mg/L	0.0100	0.0054		X534067	NMS	08/19/25 09:15	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X534008	SMU	08/27/25 17:49	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X534008	SMU	08/27/25 17:49	
EPA 200.8	Selenium	0.00120	mg/L	0.00100	0.00024		X534008	SMU	08/27/25 17:49	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X534008	SMU	08/27/25 17:49	
EPA 200.8	Uranium	0.00298	mg/L	0.000100	0.000052		X534008	SMU	08/27/25 17:49	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X534036	MAC	08/19/25 21:50	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X534085	ORW	08/22/25 17:21	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X534083	ORW	08/20/25 15:24	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X533174	JPM	08/19/25 21:20	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X534162	ORW	08/26/25 17:05	
SM 2320 B	Total Alkalinity	106	mg/L as CaCO3	1.0			X534116	MWD	08/20/25 16:37	
SM 2320 B	Bicarbonate	106	mg/L as CaCO3	1.0			X534116	MWD	08/20/25 16:37	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X534116	MWD	08/20/25 16:37	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X534116	MWD	08/20/25 16:37	
SM 2540 C	Total Diss. Solids	443	mg/L	10			X533233	TJL	08/18/25 13:20	
SM 2540 D	Total Susp. Solids	16.0	mg/L	5.0			X533234	TJL	08/18/25 14:40	
SM 4500 H B	pH @23.4°C	7.9	pH Units				X534116	MWD	08/20/25 16:37	H5

SVL holds the following certifications:

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

Work order Report Page 12 of 19



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: X5H0203 Reported: 28-Aug-25 10:02
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Client Sample ID: **GVMW-37B**
SVL Sample ID: **X5H0203-06 (Ground Water)**

Sampled: 12-Aug-25 10:36
Received: 13-Aug-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	4.37	mg/L	0.20	0.02		X533129	RS	08/13/25 18:11	
EPA 300.0	Fluoride	1.68	mg/L	0.100	0.017		X533129	RS	08/13/25 18:11	
EPA 300.0	Nitrate as N	1.03	mg/L	0.050	0.013		X533129	RS	08/13/25 18:11	
EPA 300.0	Nitrate+Nitrite as N	1.03	mg/L	0.100	0.044		X533129	RS	08/13/25 18:11	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X533129	RS	08/13/25 18:11	
EPA 300.0	Sulfate as SO4	199	mg/L	3.00	1.80	10	X533129	RS	08/13/25 18:27	

Cation/Anion Balance and TDS Ratios

Cation Sum: 6.05 meq/L	Anion Sum: 6.55 meq/L	C/A Balance: -3.91 %	Calculated TDS: 394	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



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: **X5H0203**

Reported: 28-Aug-25 10:02

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	X534230	27-Aug-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X534230	27-Aug-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X534230	27-Aug-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X534067	19-Aug-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X534067	19-Aug-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X534067	19-Aug-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X534067	19-Aug-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X534067	19-Aug-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X534067	19-Aug-25	B7
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X534067	19-Aug-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X534067	19-Aug-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X534067	19-Aug-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X534067	19-Aug-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X534067	19-Aug-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X534067	19-Aug-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X534067	19-Aug-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X534067	19-Aug-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X534067	19-Aug-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X534067	19-Aug-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X534067	19-Aug-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X534067	19-Aug-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X534067	19-Aug-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X534067	19-Aug-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X534067	19-Aug-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X534008	27-Aug-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X534008	27-Aug-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X534008	27-Aug-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X534008	27-Aug-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X534008	27-Aug-25	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X534036	19-Aug-25	
Classical Chemistry Parameters								
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X534085	22-Aug-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X534083	20-Aug-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X533174	19-Aug-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X534160	22-Aug-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X534162	26-Aug-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X535012	25-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X534116	20-Aug-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X534116	20-Aug-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X534116	20-Aug-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X534116	20-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X533233	18-Aug-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X533234	18-Aug-25	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X533129	13-Aug-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X533129	13-Aug-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X533129	13-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X533129	13-Aug-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X533129	13-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X533129	13-Aug-25	

SVL holds the following certifications:

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

Work order Report Page 14 of 19

**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: **X5H0203**

Reported: 28-Aug-25 10:02

Quality Control - LABORATORY CONTROL SAMPLE Data

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

EPA 200.7	Calcium	mg/L	20.1	20.0	101	85 - 115	X534230	27-Aug-25	
EPA 200.7	Magnesium	mg/L	19.7	20.0	98.3	85 - 115	X534230	27-Aug-25	
EPA 200.7	Potassium	mg/L	19.9	20.0	99.6	85 - 115	X534230	27-Aug-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.02	1.00	102	85 - 115	X534067	19-Aug-25	
EPA 200.7	Barium	mg/L	1.01	1.00	101	85 - 115	X534067	19-Aug-25	
EPA 200.7	Beryllium	mg/L	0.997	1.00	99.7	85 - 115	X534067	19-Aug-25	
EPA 200.7	Boron	mg/L	1.03	1.00	103	85 - 115	X534067	19-Aug-25	
EPA 200.7	Cadmium	mg/L	0.959	1.00	95.9	85 - 115	X534067	19-Aug-25	
EPA 200.7	Calcium	mg/L	19.4	20.0	97.0	85 - 115	X534067	19-Aug-25	
EPA 200.7	Chromium	mg/L	0.996	1.00	99.6	85 - 115	X534067	19-Aug-25	
EPA 200.7	Cobalt	mg/L	0.944	1.00	94.4	85 - 115	X534067	19-Aug-25	
EPA 200.7	Copper	mg/L	0.963	1.00	96.3	85 - 115	X534067	19-Aug-25	
EPA 200.7	Iron	mg/L	9.93	10.0	99.3	85 - 115	X534067	19-Aug-25	
EPA 200.7	Lead	mg/L	0.960	1.00	96.0	85 - 115	X534067	19-Aug-25	
EPA 200.7	Lithium	mg/L	0.993	1.00	99.3	85 - 115	X534067	19-Aug-25	
EPA 200.7	Magnesium	mg/L	18.8	20.0	94.1	85 - 115	X534067	19-Aug-25	
EPA 200.7	Manganese	mg/L	0.986	1.00	98.6	85 - 115	X534067	19-Aug-25	
EPA 200.7	Molybdenum	mg/L	1.01	1.00	101	85 - 115	X534067	19-Aug-25	
EPA 200.7	Nickel	mg/L	0.943	1.00	94.3	85 - 115	X534067	19-Aug-25	
EPA 200.7	Potassium	mg/L	20.5	20.0	103	85 - 115	X534067	19-Aug-25	
EPA 200.7	Silver	mg/L	0.0521	0.0500	104	85 - 115	X534067	19-Aug-25	
EPA 200.7	Sodium	mg/L	18.5	19.0	97.5	85 - 115	X534067	19-Aug-25	
EPA 200.7	Vanadium	mg/L	1.00	1.00	100	85 - 115	X534067	19-Aug-25	
EPA 200.7	Zinc	mg/L	0.993	1.00	99.3	85 - 115	X534067	19-Aug-25	
EPA 200.8	Antimony	mg/L	0.0245	0.0250	98.0	85 - 115	X534008	27-Aug-25	
EPA 200.8	Arsenic	mg/L	0.0241	0.0250	96.2	85 - 115	X534008	27-Aug-25	
EPA 200.8	Selenium	mg/L	0.0235	0.0250	94.2	85 - 115	X534008	27-Aug-25	
EPA 200.8	Thallium	mg/L	0.0258	0.0250	103	85 - 115	X534008	27-Aug-25	
EPA 200.8	Uranium	mg/L	0.0261	0.0250	104	85 - 115	X534008	27-Aug-25	

B7

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00207	0.00200	103	85 - 115	X534036	19-Aug-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.104	0.100	104	90 - 110	X534085	22-Aug-25	
EPA 335.4	Cyanide (total)	mg/L	0.0938	0.100	93.8	90 - 110	X534083	20-Aug-25	
EPA 350.1	Ammonia as N	mg/L	1.00	1.00	100	90 - 110	X533174	19-Aug-25	
EPA 350.1	Ammonia as N	mg/L	0.982	1.00	98.2	90 - 110	X534160	22-Aug-25	
OIA 1677	Cyanide (WAD)	mg/L	0.104	0.100	104	90 - 110	X534162	26-Aug-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1140	1180	96.7	95.4 - 104	X535012	25-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	100	99.3	101	94 - 106	X534116	20-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	396	397	99.6	94 - 106	X534116	20-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	244	250	97.6	85 - 115	X533233	18-Aug-25	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X533234	18-Aug-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	2.95	3.00	98.3	90 - 110	X533129	13-Aug-25	
EPA 300.0	Fluoride	mg/L	1.96	2.00	98.2	90 - 110	X533129	13-Aug-25	
EPA 300.0	Nitrate as N	mg/L	1.98	2.00	99.2	90 - 110	X533129	13-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.49	4.50	99.9	90 - 110	X533129	13-Aug-25	
EPA 300.0	Nitrite as N	mg/L	2.51	2.50	100	90 - 110	X533129	13-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	10.4	10.0	104	90 - 110	X533129	13-Aug-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: **X5H0203**

Reported: 28-Aug-25 10:02

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	X535012 - X5H0160-01	25-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	192	192	0.1	20	X534116 - X5H0160-02	20-Aug-25	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	192	192	0.1	20	X534116 - X5H0160-02	20-Aug-25	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X534116 - X5H0160-02	20-Aug-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X534116 - X5H0160-02	20-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	362	369	1.9	10	X533233 - X5H0203-02	18-Aug-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X533234 - X5H0203-02	18-Aug-25	
SM 4500 H B	pH @23.0°C	pH Units	8.2	8.2	0.2	20	X534116 - X5H0160-02	20-Aug-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	300	265	20.0	0.30R>S	70 - 130	X534230 - X5H0207-01	27-Aug-25	D18,M4
EPA 200.7	Calcium	mg/L	829	819	20.0	0.30R>S	70 - 130	X534230 - X5H0207-05	27-Aug-25	D18,M4
EPA 200.7	Magnesium	mg/L	111	85.3	20.0	130	70 - 130	X534230 - X5H0207-01	27-Aug-25	D18
EPA 200.7	Magnesium	mg/L	164	143	20.0	108	70 - 130	X534230 - X5H0207-05	27-Aug-25	D18
EPA 200.7	Potassium	mg/L	42.1	20.3	20.0	109	70 - 130	X534230 - X5H0207-01	27-Aug-25	D18
EPA 200.7	Potassium	mg/L	46.3	25.4	20.0	104	70 - 130	X534230 - X5H0207-05	27-Aug-25	D18
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	21.1	19.7	1.00	0.30R>S	70 - 130	X534067 - X5H0126-01	19-Aug-25	M3
EPA 200.7	Aluminum	mg/L	0.990	<0.080	1.00	99.0	70 - 130	X534067 - X5H0203-06	19-Aug-25	
EPA 200.7	Barium	mg/L	1.02	0.0119	1.00	101	70 - 130	X534067 - X5H0126-01	19-Aug-25	
EPA 200.7	Barium	mg/L	1.08	0.0722	1.00	101	70 - 130	X534067 - X5H0203-06	19-Aug-25	
EPA 200.7	Beryllium	mg/L	1.03	0.00608	1.00	103	70 - 130	X534067 - X5H0126-01	19-Aug-25	
EPA 200.7	Beryllium	mg/L	0.990	<0.00200	1.00	99.0	70 - 130	X534067 - X5H0203-06	19-Aug-25	
EPA 200.7	Boron	mg/L	1.16	0.0642	1.00	110	70 - 130	X534067 - X5H0126-01	19-Aug-25	
EPA 200.7	Boron	mg/L	1.06	<0.0400	1.00	105	70 - 130	X534067 - X5H0203-06	19-Aug-25	
EPA 200.7	Cadmium	mg/L	1.06	0.122	1.00	94.3	70 - 130	X534067 - X5H0126-01	19-Aug-25	
EPA 200.7	Cadmium	mg/L	0.941	<0.0020	1.00	94.1	70 - 130	X534067 - X5H0203-06	19-Aug-25	
EPA 200.7	Calcium	mg/L	467	436	20.0	0.30R>S	70 - 130	X534067 - X5H0126-01	19-Aug-25	B7,M3
EPA 200.7	Calcium	mg/L	91.2	71.5	20.0	98.4	70 - 130	X534067 - X5H0203-06	19-Aug-25	B7
EPA 200.7	Chromium	mg/L	0.995	0.0081	1.00	98.7	70 - 130	X534067 - X5H0126-01	19-Aug-25	
EPA 200.7	Chromium	mg/L	0.988	<0.0060	1.00	98.8	70 - 130	X534067 - X5H0203-06	19-Aug-25	
EPA 200.7	Cobalt	mg/L	1.16	0.196	1.00	96.1	70 - 130	X534067 - X5H0126-01	19-Aug-25	
EPA 200.7	Cobalt	mg/L	0.925	<0.0060	1.00	92.5	70 - 130	X534067 - X5H0203-06	19-Aug-25	
EPA 200.7	Copper	mg/L	8.80	7.76	1.00	104	70 - 130	X534067 - X5H0126-01	19-Aug-25	
EPA 200.7	Copper	mg/L	0.948	<0.0100	1.00	94.8	70 - 130	X534067 - X5H0203-06	19-Aug-25	
EPA 200.7	Iron	mg/L	10.3	<0.100	10.0	103	70 - 130	X534067 - X5H0126-01	19-Aug-25	
EPA 200.7	Iron	mg/L	10.0	<0.100	10.0	99.7	70 - 130	X534067 - X5H0203-06	19-Aug-25	
EPA 200.7	Lead	mg/L	1.05	0.0828	1.00	96.6	70 - 130	X534067 - X5H0126-01	19-Aug-25	
EPA 200.7	Lead	mg/L	0.945	<0.0075	1.00	94.5	70 - 130	X534067 - X5H0203-06	19-Aug-25	
EPA 200.7	Lithium	mg/L	1.36	0.066	1.00	130	70 - 130	X534067 - X5H0126-01	19-Aug-25	
EPA 200.7	Lithium	mg/L	1.04	<0.040	1.00	104	70 - 130	X534067 - X5H0203-06	19-Aug-25	
EPA 200.7	Magnesium	mg/L	359	324	20.0	0.30R>S	70 - 130	X534067 - X5H0126-01	19-Aug-25	M3
EPA 200.7	Magnesium	mg/L	31.4	11.7	20.0	98.5	70 - 130	X534067 - X5H0203-06	19-Aug-25	
EPA 200.7	Manganese	mg/L	38.0	36.6	1.00	0.30R>S	70 - 130	X534067 - X5H0126-01	19-Aug-25	M3
EPA 200.7	Manganese	mg/L	1.06	0.0841	1.00	97.7	70 - 130	X534067 - X5H0203-06	19-Aug-25	

SVL holds the following certifications:

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

Work order Report Page 16 of 19

**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: **X5H0203**

Reported: 28-Aug-25 10:02

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	1.03	<0.0080	1.00	103	70 - 130	X534067 - X5H0126-01	19-Aug-25	
EPA 200.7	Molybdenum	mg/L	1.01	0.0083	1.00	100	70 - 130	X534067 - X5H0203-06	19-Aug-25	
EPA 200.7	Nickel	mg/L	1.30	0.340	1.00	95.9	70 - 130	X534067 - X5H0126-01	19-Aug-25	
EPA 200.7	Nickel	mg/L	0.931	<0.0100	1.00	92.2	70 - 130	X534067 - X5H0203-06	19-Aug-25	
EPA 200.7	Potassium	mg/L	31.8	10.3	20.0	108	70 - 130	X534067 - X5H0126-01	19-Aug-25	
EPA 200.7	Potassium	mg/L	21.7	1.20	20.0	102	70 - 130	X534067 - X5H0203-06	19-Aug-25	
EPA 200.7	Silver	mg/L	0.0563	<0.0050	0.0500	113	70 - 130	X534067 - X5H0126-01	19-Aug-25	
EPA 200.7	Silver	mg/L	0.0516	<0.0050	0.0500	103	70 - 130	X534067 - X5H0203-06	19-Aug-25	
EPA 200.7	Sodium	mg/L	118	96.1	19.0	114	70 - 130	X534067 - X5H0126-01	19-Aug-25	
EPA 200.7	Sodium	mg/L	52.0	33.9	19.0	95.5	70 - 130	X534067 - X5H0203-06	19-Aug-25	
EPA 200.7	Vanadium	mg/L	0.719	<0.0050	1.00	71.9	70 - 130	X534067 - X5H0126-01	19-Aug-25	
EPA 200.7	Vanadium	mg/L	1.00	<0.0050	1.00	100	70 - 130	X534067 - X5H0203-06	19-Aug-25	
EPA 200.7	Zinc	mg/L	26.7	25.8	1.00	86.6	70 - 130	X534067 - X5H0126-01	19-Aug-25	
EPA 200.7	Zinc	mg/L	1.01	0.0145	1.00	99.7	70 - 130	X534067 - X5H0203-06	19-Aug-25	
EPA 200.8	Antimony	mg/L	0.0239	<0.00100	0.0250	95.7	70 - 130	X534008 - X5H0162-02	27-Aug-25	
EPA 200.8	Antimony	mg/L	0.0256	0.00120	0.0250	97.4	70 - 130	X534008 - X5H0203-05	27-Aug-25	
EPA 200.8	Arsenic	mg/L	0.0246	<0.00100	0.0250	98.2	70 - 130	X534008 - X5H0162-02	27-Aug-25	
EPA 200.8	Arsenic	mg/L	0.0268	0.00227	0.0250	98.3	70 - 130	X534008 - X5H0203-05	27-Aug-25	
EPA 200.8	Selenium	mg/L	0.0255	<0.00100	0.0250	102	70 - 130	X534008 - X5H0162-02	27-Aug-25	
EPA 200.8	Selenium	mg/L	0.0256	<0.00100	0.0250	101	70 - 130	X534008 - X5H0203-05	27-Aug-25	
EPA 200.8	Thallium	mg/L	0.0233	<0.000200	0.0250	93.3	70 - 130	X534008 - X5H0162-02	27-Aug-25	
EPA 200.8	Thallium	mg/L	0.0239	<0.000200	0.0250	95.7	70 - 130	X534008 - X5H0203-05	27-Aug-25	
EPA 200.8	Uranium	mg/L	0.0278	0.00318	0.0250	98.6	70 - 130	X534008 - X5H0162-02	27-Aug-25	
EPA 200.8	Uranium	mg/L	0.0285	0.00272	0.0250	103	70 - 130	X534008 - X5H0203-05	27-Aug-25	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00196	<0.000200	0.00200	97.8	70 - 130	X534036 - X5H0136-01	19-Aug-25	
EPA 245.1	Mercury	mg/L	0.00197	<0.000200	0.00200	98.7	70 - 130	X534036 - X5H0199-01	19-Aug-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0996	<0.0050	0.100	99.6	79 - 121	X534085 - X5H0162-03	22-Aug-25	
EPA 335.4	Cyanide (total)	mg/L	0.0985	<0.0050	0.100	98.5	90 - 110	X534083 - X5H0203-05	20-Aug-25	
EPA 335.4	Cyanide (total)	mg/L	0.0997	<0.0050	0.100	99.7	90 - 110	X534083 - X5H0203-03	20-Aug-25	
EPA 350.1	Ammonia as N	mg/L	0.937	<0.030	1.00	93.7	90 - 110	X533174 - X5H0162-01	19-Aug-25	
EPA 350.1	Ammonia as N	mg/L	0.885	<0.030	1.00	88.5	90 - 110	X533174 - X5H0203-03	19-Aug-25	M2
EPA 350.1	Ammonia as N	mg/L	1.03	<0.030	1.00	103	90 - 110	X534160 - X5H0272-01	22-Aug-25	
EPA 350.1	Ammonia as N	mg/L	1.04	<0.030	1.00	104	90 - 110	X534160 - X5H0203-01	22-Aug-25	
OIA 1677	Cyanide (WAD)	mg/L	0.105	<0.0050	0.100	105	82 - 118	X534162 - X5H0203-03	26-Aug-25	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.49	1.39	3.00	103	90 - 110	X533129 - X5H0188-03	13-Aug-25	
EPA 300.0	Fluoride	mg/L	2.00	<0.100	2.00	98.7	90 - 110	X533129 - X5H0188-03	13-Aug-25	
EPA 300.0	Nitrate as N	mg/L	2.11	0.097	2.00	101	90 - 110	X533129 - X5H0188-03	13-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.12	<0.100	4.00	101	90 - 110	X533129 - X5H0188-03	13-Aug-25	
EPA 300.0	Nitrite as N	mg/L	2.00	<0.050	2.00	100	90 - 110	X533129 - X5H0188-03	13-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	13.8	3.68	10.0	102	90 - 110	X533129 - X5H0188-03	13-Aug-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: **X5H0203**

Reported: 28-Aug-25 10:02

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	286	300	20.0	5.0	20	108	X534230 - X5H0207-01	D18
EPA 200.7	Magnesium	mg/L	112	111	20.0	0.5	20	0.30R>S	X534230 - X5H0207-01	D18,M4
EPA 200.7	Potassium	mg/L	40.4	42.1	20.0	4.1	20	101	X534230 - X5H0207-01	D18
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	20.9	21.1	1.00	0.9	20	122	X534067 - X5H0126-01	
EPA 200.7	Barium	mg/L	0.976	1.02	1.00	4.3	20	96.4	X534067 - X5H0126-01	
EPA 200.7	Beryllium	mg/L	1.04	1.03	1.00	0.4	20	103	X534067 - X5H0126-01	
EPA 200.7	Boron	mg/L	1.14	1.16	1.00	1.9	20	108	X534067 - X5H0126-01	
EPA 200.7	Cadmium	mg/L	1.05	1.06	1.00	1.2	20	93.0	X534067 - X5H0126-01	
EPA 200.7	Calcium	mg/L	455	467	20.0	2.5	20	98.1	X534067 - X5H0126-01	B7
EPA 200.7	Chromium	mg/L	0.983	0.995	1.00	1.2	20	97.5	X534067 - X5H0126-01	
EPA 200.7	Cobalt	mg/L	1.15	1.16	1.00	1.0	20	95.0	X534067 - X5H0126-01	
EPA 200.7	Copper	mg/L	8.75	8.80	1.00	0.6	20	98.6	X534067 - X5H0126-01	
EPA 200.7	Iron	mg/L	9.99	10.3	10.0	2.6	20	99.9	X534067 - X5H0126-01	
EPA 200.7	Lead	mg/L	1.04	1.05	1.00	1.1	20	95.5	X534067 - X5H0126-01	
EPA 200.7	Lithium	mg/L	1.34	1.36	1.00	1.7	20	128	X534067 - X5H0126-01	
EPA 200.7	Magnesium	mg/L	349	359	20.0	2.9	20	125	X534067 - X5H0126-01	
EPA 200.7	Manganese	mg/L	37.6	38.0	1.00	1.2	20	98.6	X534067 - X5H0126-01	
EPA 200.7	Molybdenum	mg/L	1.02	1.03	1.00	0.9	20	102	X534067 - X5H0126-01	
EPA 200.7	Nickel	mg/L	1.29	1.30	1.00	0.9	20	94.8	X534067 - X5H0126-01	
EPA 200.7	Potassium	mg/L	31.1	31.8	20.0	2.4	20	104	X534067 - X5H0126-01	
EPA 200.7	Silver	mg/L	0.0551	0.0563	0.0500	2.1	20	110	X534067 - X5H0126-01	
EPA 200.7	Sodium	mg/L	115	118	19.0	2.4	20	99.6	X534067 - X5H0126-01	
EPA 200.7	Vanadium	mg/L	0.714	0.719	1.00	0.7	20	71.4	X534067 - X5H0126-01	
EPA 200.7	Zinc	mg/L	26.3	26.7	1.00	1.5	20	0.30R>S	X534067 - X5H0126-01	M3
EPA 200.8	Antimony	mg/L	0.0242	0.0239	0.0250	1.1	20	96.7	X534008 - X5H0162-02	
EPA 200.8	Arsenic	mg/L	0.0246	0.0246	0.0250	0.3	20	98.6	X534008 - X5H0162-02	
EPA 200.8	Selenium	mg/L	0.0257	0.0255	0.0250	0.6	20	103	X534008 - X5H0162-02	
EPA 200.8	Thallium	mg/L	0.0234	0.0233	0.0250	0.4	20	93.7	X534008 - X5H0162-02	
EPA 200.8	Uranium	mg/L	0.0283	0.0278	0.0250	1.6	20	100	X534008 - X5H0162-02	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00190	0.00196	0.00200	3.0	20	95.0	X534036 - X5H0136-01	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.104	0.0996	0.100	4.4	11	104	X534085 - X5H0162-03	
EPA 335.4	Cyanide (total)	mg/L	0.0955	0.0985	0.100	3.1	20	95.5	X534083 - X5H0203-05	
EPA 350.1	Ammonia as N	mg/L	0.933	0.937	1.00	0.4	20	93.3	X533174 - X5H0162-01	
EPA 350.1	Ammonia as N	mg/L	1.11	1.03	1.00	7.0	20	111	X534160 - X5H0272-01	M1
OIA 1677	Cyanide (WAD)	mg/L	0.103	0.105	0.100	1.8	11	103	X534162 - X5H0203-03	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.55	4.49	3.00	1.4	20	106	X533129 - X5H0188-03	
EPA 300.0	Fluoride	mg/L	2.02	2.00	2.00	0.9	20	99.6	X533129 - X5H0188-03	
EPA 300.0	Nitrate as N	mg/L	2.12	2.11	2.00	0.4	20	101	X533129 - X5H0188-03	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.16	4.12	4.00	0.9	20	102	X533129 - X5H0188-03	
EPA 300.0	Nitrite as N	mg/L	2.03	2.00	2.00	1.5	20	102	X533129 - X5H0188-03	
EPA 300.0	Sulfate as SO4	mg/L	14.0	13.8	10.0	1.1	20	103	X533129 - X5H0188-03	



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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: **X5H0203**

Reported: 28-Aug-25 10:02

Notes and Definitions

B7	Target analyte detected in method blank at or above method limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
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.
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: **X5H0272**

Reported: 28-Aug-25 16:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-8A	X5H0272-01	Ground Water	14-Aug-25 10:57	JC	15-Aug-2025	
GVMW-8B	X5H0272-02	Ground Water	14-Aug-25 10:20	JC	15-Aug-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: X5H0272

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: **X5H0272**

Reported: 28-Aug-25 16:04

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

Sampled: 14-Aug-25 10:57

Received: 15-Aug-25

Sampled By: JC

SVL Sample ID: **X5H0272-01 (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	50.8	mg/L	0.100	0.069		X535075	MAC	08/28/25 11:48	
EPA 200.7	Magnesium	6.49	mg/L	0.500	0.090		X535075	MAC	08/28/25 11:48	
EPA 200.7	Potassium	0.77	mg/L	0.50	0.18		X535075	MAC	08/28/25 11:48	
SM 2340 B	Hardness (as CaCO3)	195	mg/L	2.31	0.543		N/A		08/28/25 11:48	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X534169	SJN	08/22/25 11:41	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X534169	SJN	08/22/25 11:41	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X534169	SJN	08/22/25 11:41	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X534169	SJN	08/22/25 11:41	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X534169	SJN	08/22/25 11:41	
EPA 200.7	Calcium	64.6	mg/L	0.100	0.069		X534169	SJN	08/22/25 11:41	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X534169	SJN	08/22/25 11:41	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X534169	SJN	08/22/25 11:41	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X534169	SJN	08/22/25 11:41	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X534169	SJN	08/22/25 11:41	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X534169	SJN	08/22/25 11:41	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X534169	SJN	08/22/25 11:41	
EPA 200.7	Magnesium	8.16	mg/L	0.500	0.090		X534169	SJN	08/22/25 11:41	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X534169	SJN	08/22/25 11:41	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X534169	SJN	08/22/25 11:41	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X534169	SJN	08/22/25 11:41	
EPA 200.7	Potassium	0.76	mg/L	0.50	0.18		X534169	SJN	08/22/25 11:41	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X534169	SJN	08/22/25 11:41	
EPA 200.7	Sodium	30.9	mg/L	0.50	0.12		X534169	SJN	08/22/25 11:41	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X534169	SJN	08/22/25 11:41	
EPA 200.7	Zinc	0.0137	mg/L	0.0100	0.0054		X534169	SJN	08/22/25 11:41	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X534008	SMU	08/27/25 17:52	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X534008	SMU	08/27/25 17:52	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X534008	SMU	08/27/25 17:52	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X534008	SMU	08/27/25 17:52	
EPA 200.8	Uranium	0.00474	mg/L	0.000100	0.000052		X534008	SMU	08/27/25 17:52	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X534037	MAC	08/19/25 19:27	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X534085	ORW	08/22/25 17:45	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X534083	ORW	08/20/25 15:34	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X534160	ORW	08/22/25 15:44	M1
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X534162	ORW	08/26/25 17:14	
SM 2310 B	Acidity to pH 8.3	-41.8	mg/L as CaCO3	10.0			X535013	MWD	08/25/25 13:00	
SM 2320 B	Total Alkalinity	39.2	mg/L as CaCO3	1.0			X534223	MWD	08/23/25 12:02	
SM 2320 B	Bicarbonate	39.2	mg/L as CaCO3	1.0			X534223	MWD	08/23/25 12:02	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X534223	MWD	08/23/25 12:02	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X534223	MWD	08/23/25 12:02	
SM 2540 C	Total Diss. Solids	273	mg/L	10			X534089	TJL	08/20/25 13:15	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X534090	TJL	08/20/25 13:45	
SM 4500 H B	pH @23.3°C	7.2	pH Units				X534223	MWD	08/23/25 12:02	H5

SVL holds the following certifications:

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

Work order Report Page 2 of 11



One Government Gulch - PO Box 929

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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: **X5H0272**

Reported: 28-Aug-25 16:04

Client Sample ID: **GVMW-8A**SVL Sample ID: **X5H0272-01 (Ground Water)**

Sampled: 14-Aug-25 10:57

Received: 15-Aug-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	65.0	mg/L	2.00	0.22	10	X533244	RS	08/15/25 22:20	M4
EPA 300.0	Fluoride	1.82	mg/L	0.100	0.017		X533244	RS	08/15/25 22:04	
EPA 300.0	Nitrate as N	1.24	mg/L	0.050	0.013		X533244	RS	08/15/25 22:04	
EPA 300.0	Nitrate+Nitrite as N	1.24	mg/L	0.100	0.044		X533244	RS	08/15/25 22:04	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X533244	RS	08/15/25 22:04	
EPA 300.0	Sulfate as SO4	64.5	mg/L	3.00	1.80	10	X533244	RS	08/15/25 22:20	M4

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.45 meq/L

Anion Sum: 4.14 meq/L

C/A Balance: 3.51 %

Calculated TDS: 257

TDS/cTDS: 1.06

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: **X5H0272**

Reported: 28-Aug-25 16:04

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

Sampled: 14-Aug-25 10:20

Received: 15-Aug-25

Sampled By: JC

SVL Sample ID: **X5H0272-02 (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	44.1	mg/L	0.100	0.069		X535075	MAC	08/28/25 11:52	
EPA 200.7	Magnesium	6.94	mg/L	0.500	0.090		X535075	MAC	08/28/25 11:52	
EPA 200.7	Potassium	1.36	mg/L	0.50	0.18		X535075	MAC	08/28/25 11:52	
SM 2340 B	Hardness (as CaCO3)	139	mg/L	2.31	0.543		N/A		08/22/25 11:45	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X534169	SJN	08/22/25 11:45	
EPA 200.7	Barium	0.0109	mg/L	0.0020	0.0019		X534169	SJN	08/22/25 11:45	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X534169	SJN	08/22/25 11:45	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X534169	SJN	08/22/25 11:45	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X534169	SJN	08/22/25 11:45	
EPA 200.7	Calcium	55.4	mg/L	0.100	0.069		X534169	SJN	08/22/25 11:45	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X534169	SJN	08/22/25 11:45	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X534169	SJN	08/22/25 11:45	
EPA 200.7	Copper	0.0436	mg/L	0.0100	0.0027		X534169	SJN	08/22/25 11:45	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X534169	SJN	08/22/25 11:45	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X534169	SJN	08/22/25 11:45	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X534169	SJN	08/22/25 11:45	
EPA 200.7	Magnesium	8.59	mg/L	0.500	0.090		X534169	SJN	08/22/25 11:45	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X534169	SJN	08/22/25 11:45	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X534169	SJN	08/22/25 11:45	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X534169	SJN	08/22/25 11:45	
EPA 200.7	Potassium	1.42	mg/L	0.50	0.18		X534169	SJN	08/22/25 11:45	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X534169	SJN	08/22/25 11:45	
EPA 200.7	Sodium	31.4	mg/L	0.50	0.12		X534169	SJN	08/22/25 11:45	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X534169	SJN	08/22/25 11:45	
EPA 200.7	Zinc	0.0139	mg/L	0.0100	0.0054		X534169	SJN	08/22/25 11:45	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X534008	SMU	08/27/25 17:54	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X534008	SMU	08/27/25 17:54	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X534008	SMU	08/27/25 17:54	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X534008	SMU	08/27/25 17:54	
EPA 200.8	Uranium	0.00251	mg/L	0.000100	0.000052		X534008	SMU	08/27/25 17:54	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X534037	MAC	08/19/25 19:30	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X534085	ORW	08/22/25 17:48	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X534083	ORW	08/20/25 15:36	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X534160	ORW	08/22/25 15:48	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X534162	ORW	08/26/25 17:17	
SM 2310 B	Acidity to pH 8.3	-51.0	mg/L as CaCO3	10.0			X535013	MWD	08/25/25 13:00	
SM 2320 B	Total Alkalinity	49.5	mg/L as CaCO3	1.0			X534223	MWD	08/23/25 12:07	
SM 2320 B	Bicarbonate	49.5	mg/L as CaCO3	1.0			X534223	MWD	08/23/25 12:07	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X534223	MWD	08/23/25 12:07	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X534223	MWD	08/23/25 12:07	
SM 2540 C	Total Diss. Solids	278	mg/L	10			X534089	TJL	08/20/25 13:15	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X534090	TJL	08/20/25 13:45	
SM 4500 H B	pH @23.4°C	7.3	pH Units				X534223	MWD	08/23/25 12:07	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: X5H0272 Reported: 28-Aug-25 16:04
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Client Sample ID: **GVMW-8B**
SVL Sample ID: **X5H0272-02 (Ground Water)**

Sampled: 14-Aug-25 10:20
Received: 15-Aug-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	47.7	mg/L	2.00	0.22	10	X533244	RS	08/15/25 23:22	
EPA 300.0	Fluoride	2.12	mg/L	0.100	0.017		X533244	RS	08/15/25 23:06	
EPA 300.0	Nitrate as N	2.10	mg/L	0.050	0.013		X533244	RS	08/15/25 23:06	
EPA 300.0	Nitrate+Nitrite as N	2.10	mg/L	0.100	0.044		X533244	RS	08/15/25 23:06	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X533244	RS	08/15/25 23:06	
EPA 300.0	Sulfate as SO4	83.8	mg/L	3.00	1.80	10	X533244	RS	08/15/25 23:22	

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.19 meq/L	Anion Sum: 4.34 meq/L	C/A Balance: -1.80 %	Calculated TDS: 263	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



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: **X5H0272**

Reported: 28-Aug-25 16:04

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	X535075	28-Aug-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X535075	28-Aug-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X535075	28-Aug-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X534169	22-Aug-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X534169	22-Aug-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X534169	22-Aug-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X534169	22-Aug-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X534169	22-Aug-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X534169	22-Aug-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X534169	22-Aug-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X534169	22-Aug-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X534169	22-Aug-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X534169	22-Aug-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X534169	22-Aug-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X534169	22-Aug-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X534169	22-Aug-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X534169	22-Aug-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X534169	22-Aug-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X534169	22-Aug-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X534169	22-Aug-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X534169	22-Aug-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X534169	22-Aug-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X534169	22-Aug-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X534169	22-Aug-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X534008	27-Aug-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X534008	27-Aug-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X534008	27-Aug-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X534008	27-Aug-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X534008	27-Aug-25	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X534037	19-Aug-25	
Classical Chemistry Parameters								
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X534085	22-Aug-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X534083	20-Aug-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X534160	22-Aug-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X534162	26-Aug-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X535013	25-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X534223	23-Aug-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X534223	23-Aug-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X534223	23-Aug-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X534223	23-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X534089	20-Aug-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X534090	20-Aug-25	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X533244	15-Aug-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X533244	15-Aug-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X533244	15-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X533244	15-Aug-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X533244	15-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X533244	15-Aug-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: **X5H0272**

Reported: 28-Aug-25 16:04

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	19.9	20.0	99	85 - 115	X535075	28-Aug-25	
EPA 200.7	Magnesium	mg/L	19.7	20.0	98.5	85 - 115	X535075	28-Aug-25	
EPA 200.7	Potassium	mg/L	20.1	20.0	100	85 - 115	X535075	28-Aug-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.920	1.00	92.0	85 - 115	X534169	22-Aug-25	
EPA 200.7	Barium	mg/L	0.957	1.00	95.7	85 - 115	X534169	22-Aug-25	
EPA 200.7	Beryllium	mg/L	0.907	1.00	90.7	85 - 115	X534169	22-Aug-25	
EPA 200.7	Boron	mg/L	0.951	1.00	95.1	85 - 115	X534169	22-Aug-25	
EPA 200.7	Cadmium	mg/L	0.885	1.00	88.5	85 - 115	X534169	22-Aug-25	
EPA 200.7	Calcium	mg/L	18.5	20.0	92.4	85 - 115	X534169	22-Aug-25	
EPA 200.7	Chromium	mg/L	0.922	1.00	92.2	85 - 115	X534169	22-Aug-25	
EPA 200.7	Cobalt	mg/L	0.880	1.00	88.0	85 - 115	X534169	22-Aug-25	
EPA 200.7	Copper	mg/L	0.891	1.00	89.1	85 - 115	X534169	22-Aug-25	
EPA 200.7	Iron	mg/L	9.36	10.0	93.6	85 - 115	X534169	22-Aug-25	
EPA 200.7	Lead	mg/L	0.887	1.00	88.7	85 - 115	X534169	22-Aug-25	
EPA 200.7	Lithium	mg/L	0.907	1.00	90.7	85 - 115	X534169	22-Aug-25	
EPA 200.7	Magnesium	mg/L	17.8	20.0	88.9	85 - 115	X534169	22-Aug-25	
EPA 200.7	Manganese	mg/L	0.927	1.00	92.7	85 - 115	X534169	22-Aug-25	
EPA 200.7	Molybdenum	mg/L	0.927	1.00	92.7	85 - 115	X534169	22-Aug-25	
EPA 200.7	Nickel	mg/L	0.877	1.00	87.7	85 - 115	X534169	22-Aug-25	
EPA 200.7	Potassium	mg/L	18.9	20.0	94.4	85 - 115	X534169	22-Aug-25	
EPA 200.7	Silver	mg/L	0.0430	0.0500	86.1	85 - 115	X534169	22-Aug-25	
EPA 200.7	Sodium	mg/L	17.6	19.0	92.6	85 - 115	X534169	22-Aug-25	
EPA 200.7	Vanadium	mg/L	0.918	1.00	91.8	85 - 115	X534169	22-Aug-25	
EPA 200.7	Zinc	mg/L	0.892	1.00	89.2	85 - 115	X534169	22-Aug-25	
EPA 200.8	Antimony	mg/L	0.0245	0.0250	98.0	85 - 115	X534008	27-Aug-25	
EPA 200.8	Arsenic	mg/L	0.0241	0.0250	96.2	85 - 115	X534008	27-Aug-25	
EPA 200.8	Selenium	mg/L	0.0235	0.0250	94.2	85 - 115	X534008	27-Aug-25	
EPA 200.8	Thallium	mg/L	0.0258	0.0250	103	85 - 115	X534008	27-Aug-25	
EPA 200.8	Uranium	mg/L	0.0261	0.0250	104	85 - 115	X534008	27-Aug-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00215	0.00200	107	85 - 115	X534037	19-Aug-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.104	0.100	104	90 - 110	X534085	22-Aug-25	
EPA 335.4	Cyanide (total)	mg/L	0.0938	0.100	93.8	90 - 110	X534083	20-Aug-25	
EPA 350.1	Ammonia as N	mg/L	0.982	1.00	98.2	90 - 110	X534160	22-Aug-25	
OIA 1677	Cyanide (WAD)	mg/L	0.104	0.100	104	90 - 110	X534162	26-Aug-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1140	1180	96.7	95.4 - 104	X535013	25-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.90	9.93	99.7	94 - 106	X534223	23-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	99.3	99.3	100	94 - 106	X534223	23-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	244	250	97.6	85 - 115	X534089	20-Aug-25	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X534090	20-Aug-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	2.94	3.00	97.9	90 - 110	X533244	15-Aug-25	
EPA 300.0	Fluoride	mg/L	1.95	2.00	97.5	90 - 110	X533244	15-Aug-25	
EPA 300.0	Nitrate as N	mg/L	1.95	2.00	97.3	90 - 110	X533244	15-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.45	4.50	99.0	90 - 110	X533244	15-Aug-25	
EPA 300.0	Nitrite as N	mg/L	2.51	2.50	100	90 - 110	X533244	15-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	10.3	10.0	103	90 - 110	X533244	15-Aug-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: **X5H0272**
Reported: 28-Aug-25 16:04

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	X535013 - X5H0250-01	25-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	160	160	0.0	20	X534223 - X5H0245-02	23-Aug-25	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	160	160	0.0	20	X534223 - X5H0245-02	23-Aug-25	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X534223 - X5H0245-02	23-Aug-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X534223 - X5H0245-02	23-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	271	273	0.7	10	X534089 - X5H0272-01	20-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	274	278	1.5	10	X534089 - X5H0272-02	20-Aug-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X534090 - X5H0272-02	20-Aug-25	
SM 4500 H B	pH @22.0°C	pH Units	7.3	7.4	1.0	20	X534223 - X5H0245-02	23-Aug-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	372	370	20.0	0.30R>S	70 - 130	X535075 - X5H0249-02	28-Aug-25	M3
EPA 200.7	Calcium	mg/L	60.5	43.4	20.0	85	70 - 130	X535075 - X5H0285-02	28-Aug-25	
EPA 200.7	Magnesium	mg/L	59.2	39.8	20.0	97.4	70 - 130	X535075 - X5H0249-02	28-Aug-25	
EPA 200.7	Magnesium	mg/L	31.3	12.2	20.0	95.7	70 - 130	X535075 - X5H0285-02	28-Aug-25	
EPA 200.7	Potassium	mg/L	25.4	5.78	20.0	98.1	70 - 130	X535075 - X5H0249-02	28-Aug-25	
EPA 200.7	Potassium	mg/L	19.8	<0.50	20.0	98.0	70 - 130	X535075 - X5H0285-02	28-Aug-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.25	<0.080	1.00	125	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Aluminum	mg/L	1.18	<0.080	1.00	118	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Barium	mg/L	1.23	0.0237	1.00	121	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Barium	mg/L	1.35	0.196	1.00	116	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Beryllium	mg/L	1.18	<0.00200	1.00	118	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Beryllium	mg/L	1.09	<0.00200	1.00	109	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Boron	mg/L	1.29	0.0805	1.00	121	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Boron	mg/L	1.13	<0.0400	1.00	113	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Cadmium	mg/L	1.11	<0.0020	1.00	111	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Cadmium	mg/L	1.10	<0.0020	1.00	110	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Calcium	mg/L	320	300	20.0	99.3	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Calcium	mg/L	43.2	21.0	20.0	111	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Chromium	mg/L	1.18	<0.0060	1.00	118	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Chromium	mg/L	1.12	<0.0060	1.00	112	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Cobalt	mg/L	1.11	0.0161	1.00	110	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Cobalt	mg/L	1.07	<0.0060	1.00	107	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Copper	mg/L	1.16	<0.0100	1.00	116	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Copper	mg/L	1.05	<0.0100	1.00	105	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Iron	mg/L	12.2	<0.100	10.0	122	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Iron	mg/L	20.6	9.46	10.0	112	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Lead	mg/L	1.12	<0.0075	1.00	112	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Lead	mg/L	1.10	<0.0075	1.00	110	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Lithium	mg/L	1.41	0.111	1.00	130	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Lithium	mg/L	1.33	<0.040	1.00	130	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Magnesium	mg/L	99.1	76.8	20.0	112	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Magnesium	mg/L	34.4	12.3	20.0	110	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Manganese	mg/L	4.20	3.12	1.00	109	70 - 130	X534169 - X5H0245-01	22-Aug-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: **X5H0272**

Reported: 28-Aug-25 16:04

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	3.35	2.30	1.00	105	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Molybdenum	mg/L	1.15	<0.0080	1.00	115	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Molybdenum	mg/L	1.12	<0.0080	1.00	112	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Nickel	mg/L	1.09	<0.0100	1.00	109	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Nickel	mg/L	1.05	<0.0100	1.00	105	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Potassium	mg/L	32.0	8.13	20.0	119	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Potassium	mg/L	23.9	1.13	20.0	114	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Silver	mg/L	0.0514	<0.0050	0.0500	103	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Silver	mg/L	0.0500	<0.0050	0.0500	100	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Sodium	mg/L	107	85.5	19.0	111	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Sodium	mg/L	32.2	11.4	19.0	110	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Vanadium	mg/L	1.20	<0.0050	1.00	120	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Vanadium	mg/L	1.12	<0.0050	1.00	112	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Zinc	mg/L	1.33	0.181	1.00	115	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Zinc	mg/L	1.14	0.0212	1.00	112	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.8	Antimony	mg/L	0.0239	<0.00100	0.0250	95.7	70 - 130	X534008 - X5H0162-02	27-Aug-25	
EPA 200.8	Antimony	mg/L	0.0256	0.00120	0.0250	97.4	70 - 130	X534008 - X5H0203-05	27-Aug-25	
EPA 200.8	Arsenic	mg/L	0.0246	<0.00100	0.0250	98.2	70 - 130	X534008 - X5H0162-02	27-Aug-25	
EPA 200.8	Arsenic	mg/L	0.0268	0.00227	0.0250	98.3	70 - 130	X534008 - X5H0203-05	27-Aug-25	
EPA 200.8	Selenium	mg/L	0.0255	<0.00100	0.0250	102	70 - 130	X534008 - X5H0162-02	27-Aug-25	
EPA 200.8	Selenium	mg/L	0.0256	<0.00100	0.0250	101	70 - 130	X534008 - X5H0203-05	27-Aug-25	
EPA 200.8	Thallium	mg/L	0.0233	<0.000200	0.0250	93.3	70 - 130	X534008 - X5H0162-02	27-Aug-25	
EPA 200.8	Thallium	mg/L	0.0239	<0.000200	0.0250	95.7	70 - 130	X534008 - X5H0203-05	27-Aug-25	
EPA 200.8	Uranium	mg/L	0.0278	0.00318	0.0250	98.6	70 - 130	X534008 - X5H0162-02	27-Aug-25	
EPA 200.8	Uranium	mg/L	0.0285	0.00272	0.0250	103	70 - 130	X534008 - X5H0203-05	27-Aug-25	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00201	<0.000200	0.00200	101	70 - 130	X534037 - X5H0245-01	19-Aug-25	
EPA 245.1	Mercury	mg/L	0.00196	<0.000200	0.00200	98.0	70 - 130	X534037 - X5H0276-01	19-Aug-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0996	<0.0050	0.100	99.6	79 - 121	X534085 - X5H0162-03	22-Aug-25	
EPA 335.4	Cyanide (total)	mg/L	0.0985	<0.0050	0.100	98.5	90 - 110	X534083 - X5H0203-05	20-Aug-25	
EPA 335.4	Cyanide (total)	mg/L	0.0997	<0.0050	0.100	99.7	90 - 110	X534083 - X5H0203-03	20-Aug-25	
EPA 350.1	Ammonia as N	mg/L	1.03	<0.030	1.00	103	90 - 110	X534160 - X5H0272-01	22-Aug-25	
EPA 350.1	Ammonia as N	mg/L	1.04	<0.030	1.00	104	90 - 110	X534160 - X5H0203-01	22-Aug-25	
OIA 1677	Cyanide (WAD)	mg/L	0.105	<0.0050	0.100	105	82 - 118	X534162 - X5H0203-03	26-Aug-25	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.14	<0.20	3.00	102	90 - 110	X533244 - X5H0261-03	15-Aug-25	
EPA 300.0	Chloride	mg/L	69.2	65.0	3.00	0.30R>S	90 - 110	X533244 - X5H0272-01	15-Aug-25	M4
EPA 300.0	Fluoride	mg/L	2.36	0.336	2.00	101	90 - 110	X533244 - X5H0261-03	15-Aug-25	
EPA 300.0	Fluoride	mg/L	3.82	1.82	2.00	100	90 - 110	X533244 - X5H0272-01	15-Aug-25	
EPA 300.0	Nitrate as N	mg/L	2.05	<0.050	2.00	102	90 - 110	X533244 - X5H0261-03	15-Aug-25	
EPA 300.0	Nitrate as N	mg/L	3.25	1.24	2.00	100	90 - 110	X533244 - X5H0272-01	15-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.10	<0.100	4.00	102	90 - 110	X533244 - X5H0261-03	15-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	5.29	1.24	4.00	101	90 - 110	X533244 - X5H0272-01	15-Aug-25	
EPA 300.0	Nitrite as N	mg/L	2.05	<0.050	2.00	102	90 - 110	X533244 - X5H0261-03	15-Aug-25	
EPA 300.0	Nitrite as N	mg/L	2.04	<0.050	2.00	102	90 - 110	X533244 - X5H0272-01	15-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	45.9	35.7	10.0	102	90 - 110	X533244 - X5H0261-03	15-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	77.1	64.5	10.0	0.30R>S	90 - 110	X533244 - X5H0272-01	15-Aug-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 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: **X5H0272**

Reported: 28-Aug-25 16:04

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	365	372	20.0	2.0	20	0.30R>S	X535075 - X5H0249-02	M3
EPA 200.7	Magnesium	mg/L	60.5	59.2	20.0	2.2	20	104	X535075 - X5H0249-02	
EPA 200.7	Potassium	mg/L	25.3	25.4	20.0	0.3	20	97.7	X535075 - X5H0249-02	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.23	1.25	1.00	1.3	20	123	X534169 - X5H0245-01	
EPA 200.7	Barium	mg/L	1.25	1.23	1.00	1.2	20	122	X534169 - X5H0245-01	
EPA 200.7	Beryllium	mg/L	1.14	1.18	1.00	3.7	20	114	X534169 - X5H0245-01	
EPA 200.7	Boron	mg/L	1.30	1.29	1.00	0.8	20	122	X534169 - X5H0245-01	
EPA 200.7	Cadmium	mg/L	1.11	1.11	1.00	0.1	20	111	X534169 - X5H0245-01	
EPA 200.7	Calcium	mg/L	312	320	20.0	2.5	20	0.30R>S	X534169 - X5H0245-01	M3
EPA 200.7	Chromium	mg/L	1.17	1.18	1.00	0.6	20	117	X534169 - X5H0245-01	
EPA 200.7	Cobalt	mg/L	1.11	1.11	1.00	0.1	20	110	X534169 - X5H0245-01	
EPA 200.7	Copper	mg/L	1.16	1.16	1.00	0.1	20	116	X534169 - X5H0245-01	
EPA 200.7	Iron	mg/L	11.9	12.2	10.0	2.3	20	119	X534169 - X5H0245-01	
EPA 200.7	Lead	mg/L	1.13	1.12	1.00	0.6	20	113	X534169 - X5H0245-01	
EPA 200.7	Lithium	mg/L	1.40	1.41	1.00	0.4	20	129	X534169 - X5H0245-01	
EPA 200.7	Magnesium	mg/L	98.3	99.1	20.0	0.8	20	108	X534169 - X5H0245-01	
EPA 200.7	Manganese	mg/L	4.14	4.20	1.00	1.5	20	102	X534169 - X5H0245-01	
EPA 200.7	Molybdenum	mg/L	1.16	1.15	1.00	0.9	20	116	X534169 - X5H0245-01	
EPA 200.7	Nickel	mg/L	1.09	1.09	1.00	0.2	20	109	X534169 - X5H0245-01	
EPA 200.7	Potassium	mg/L	31.4	32.0	20.0	1.9	20	116	X534169 - X5H0245-01	
EPA 200.7	Silver	mg/L	0.0535	0.0514	0.0500	3.9	20	107	X534169 - X5H0245-01	
EPA 200.7	Sodium	mg/L	104	107	19.0	2.3	20	98.0	X534169 - X5H0245-01	
EPA 200.7	Vanadium	mg/L	1.19	1.20	1.00	0.8	20	119	X534169 - X5H0245-01	
EPA 200.7	Zinc	mg/L	1.33	1.33	1.00	0.1	20	115	X534169 - X5H0245-01	
EPA 200.8	Antimony	mg/L	0.0242	0.0239	0.0250	1.1	20	96.7	X534008 - X5H0162-02	
EPA 200.8	Arsenic	mg/L	0.0246	0.0246	0.0250	0.3	20	98.6	X534008 - X5H0162-02	
EPA 200.8	Selenium	mg/L	0.0257	0.0255	0.0250	0.6	20	103	X534008 - X5H0162-02	
EPA 200.8	Thallium	mg/L	0.0234	0.0233	0.0250	0.4	20	93.7	X534008 - X5H0162-02	
EPA 200.8	Uranium	mg/L	0.0283	0.0278	0.0250	1.6	20	100	X534008 - X5H0162-02	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00200	0.00201	0.00200	0.7	20	100	X534037 - X5H0245-01	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.104	0.0996	0.100	4.4	11	104	X534085 - X5H0162-03	
EPA 335.4	Cyanide (total)	mg/L	0.0955	0.0985	0.100	3.1	20	95.5	X534083 - X5H0203-05	
EPA 350.1	Ammonia as N	mg/L	1.11	1.03	1.00	7.0	20	111	X534160 - X5H0272-01	M1
OIA 1677	Cyanide (WAD)	mg/L	0.103	0.105	0.100	1.8	11	103	X534162 - X5H0203-03	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.07	3.14	3.00	2.2	20	99.9	X533244 - X5H0261-03	
EPA 300.0	Fluoride	mg/L	2.34	2.36	2.00	0.8	20	100	X533244 - X5H0261-03	
EPA 300.0	Nitrate as N	mg/L	2.03	2.05	2.00	0.9	20	101	X533244 - X5H0261-03	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.06	4.10	4.00	1.0	20	101	X533244 - X5H0261-03	
EPA 300.0	Nitrite as N	mg/L	2.02	2.05	2.00	1.1	20	101	X533244 - X5H0261-03	
EPA 300.0	Sulfate as SO4	mg/L	45.6	45.9	10.0	0.6	20	99.1	X533244 - X5H0261-03	



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: **X5H0272**

Reported: 28-Aug-25 16:04

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.
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: **X5H0340**

Reported: 02-Sep-25 13:14

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-104F	X5H0340-01	Ground Water	19-Aug-25 10:10	JC	20-Aug-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: X5H0340

The state of origin only accredits for drinking water analyses.

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



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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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: **X5H0340**

Reported: 02-Sep-25 13:14

Client Sample ID: **GVMW-104F**

Sampled: 19-Aug-25 10:10

Received: 20-Aug-25

Sampled By: JC

SVL Sample ID: **X5H0340-01 (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	20.3	mg/L	0.100	0.069		X535206	MAC	09/02/25 09:45	
EPA 200.7	Magnesium	12.3	mg/L	0.500	0.090		X535206	MAC	09/02/25 09:45	
EPA 200.7	Potassium	1.43	mg/L	0.50	0.18		X535206	MAC	09/02/25 09:45	
SM 2340 B	Hardness (as CaCO3)	101	mg/L	2.31	0.543		N/A		08/22/25 13:09	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X534169	SJN	08/22/25 13:09	
EPA 200.7	Barium	0.196	mg/L	0.0020	0.0019		X534169	SJN	08/22/25 13:09	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X534169	SJN	08/22/25 13:09	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X534169	SJN	08/22/25 13:09	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X534169	SJN	08/22/25 13:09	
EPA 200.7	Calcium	21.0	mg/L	0.100	0.069		X534169	SJN	08/22/25 13:09	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X534169	SJN	08/22/25 13:09	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X534169	SJN	08/22/25 13:09	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X534169	SJN	08/22/25 13:09	
EPA 200.7	Iron	9.46	mg/L	0.100	0.056		X534169	SJN	08/22/25 13:09	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X534169	SJN	08/22/25 13:09	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X534169	SJN	08/22/25 14:51	
EPA 200.7	Magnesium	12.3	mg/L	0.500	0.090		X534169	SJN	08/22/25 13:09	
EPA 200.7	Manganese	2.30	mg/L	0.0080	0.0034		X534169	SJN	08/22/25 13:09	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X534169	SJN	08/22/25 13:09	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X534169	SJN	08/22/25 13:09	
EPA 200.7	Potassium	1.13	mg/L	0.50	0.18		X534169	SJN	08/22/25 13:09	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X534169	SJN	08/22/25 13:09	
EPA 200.7	Sodium	11.4	mg/L	0.50	0.12		X534169	SJN	08/22/25 13:09	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X534169	SJN	08/22/25 13:09	
EPA 200.7	Zinc	0.0212	mg/L	0.0100	0.0054		X534169	SJN	08/22/25 13:09	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X535057	SMU	08/27/25 18:00	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X535057	SMU	08/27/25 18:00	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X535057	SMU	08/27/25 18:00	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X535057	SMU	08/27/25 18:00	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X535057	SMU	08/27/25 18:00	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X534038	MAC	08/22/25 17:45	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X535118	ORW	08/28/25 12:38	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X535006	JPM	08/26/25 09:41	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X535089	ORW	08/27/25 16:55	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X534162	ORW	08/26/25 17:56	
SM 2310 B	Acidity to pH 8.3	-51.0	mg/L as CaCO3	10.0			X535227	MWD	08/29/25 12:14	
SM 2320 B	Total Alkalinity	53.7	mg/L as CaCO3	1.0			X535052	MWD	08/27/25 12:38	
SM 2320 B	Bicarbonate	53.7	mg/L as CaCO3	1.0			X535052	MWD	08/27/25 12:38	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X535052	MWD	08/27/25 12:38	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X535052	MWD	08/27/25 12:38	
SM 2540 C	Total Diss. Solids	204	mg/L	10			X534164	TJL	08/22/25 13:20	
SM 2540 D	Total Susp. Solids	6.0	mg/L	5.0			X534165	TJL	08/25/25 18:55	
SM 4500 H B	pH @20.6°C	6.6	pH Units				X535052	MWD	08/27/25 12:38	H5

SVL holds the following certifications:

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

Work order Report Page 2 of 10



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: X5H0340 Reported: 02-Sep-25 13:14
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Client Sample ID: **GVMW-104F**
SVL Sample ID: **X5H0340-01 (Ground Water)**

Sampled: 19-Aug-25 10:10
Received: 20-Aug-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	4.97	mg/L	0.20	0.02		X534145	RS	08/20/25 20:18	
EPA 300.0	Fluoride	0.169	mg/L	0.100	0.017		X534145	RS	08/20/25 20:18	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X534145	RS	08/20/25 20:18	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X534145	RS	08/20/25 20:18	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X534145	RS	08/20/25 20:18	
EPA 300.0	Sulfate as SO4	61.0	mg/L	3.00	1.80	10	X534145	RS	08/20/25 20:35	

Cation/Anion Balance and TDS Ratios

Cation Sum: 2.99 meq/L	Anion Sum: 2.50 meq/L	C/A Balance: 8.96 %	Calculated TDS: 144	TDS/cTDS: 1.42
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This data has been reviewed for accuracy and has been authorized for release.

Kristi A. Groth

Kristi A. Groth
Project Manager



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net**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: **X5H0340**

Reported: 02-Sep-25 13:14

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	X535206	02-Sep-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X535206	02-Sep-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X535206	02-Sep-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X534169	22-Aug-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X534169	22-Aug-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X534169	22-Aug-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X534169	22-Aug-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X534169	22-Aug-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X534169	22-Aug-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X534169	22-Aug-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X534169	22-Aug-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X534169	22-Aug-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X534169	22-Aug-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X534169	22-Aug-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X534169	22-Aug-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X534169	22-Aug-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X534169	22-Aug-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X534169	22-Aug-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X534169	22-Aug-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X534169	22-Aug-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X534169	22-Aug-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X534169	22-Aug-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X534169	22-Aug-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X534169	22-Aug-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X535057	27-Aug-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X535057	27-Aug-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X535057	27-Aug-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X535057	27-Aug-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X535057	27-Aug-25	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X534038	22-Aug-25	
Classical Chemistry Parameters								
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X535118	28-Aug-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X535006	26-Aug-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X535089	27-Aug-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X534162	26-Aug-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X535227	29-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X535052	27-Aug-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X535052	27-Aug-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X535052	27-Aug-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X535052	27-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X534164	22-Aug-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X534165	25-Aug-25	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X534145	20-Aug-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X534145	20-Aug-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X534145	20-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X534145	20-Aug-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X534145	20-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X534145	20-Aug-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: **X5H0340**

Reported: 02-Sep-25 13:14

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	21.0	20.0	105	85 - 115	X535206	02-Sep-25	
EPA 200.7	Magnesium	mg/L	21.3	20.0	107	85 - 115	X535206	02-Sep-25	
EPA 200.7	Potassium	mg/L	21.2	20.0	106	85 - 115	X535206	02-Sep-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.920	1.00	92.0	85 - 115	X534169	22-Aug-25	
EPA 200.7	Barium	mg/L	0.957	1.00	95.7	85 - 115	X534169	22-Aug-25	
EPA 200.7	Beryllium	mg/L	0.907	1.00	90.7	85 - 115	X534169	22-Aug-25	
EPA 200.7	Boron	mg/L	0.951	1.00	95.1	85 - 115	X534169	22-Aug-25	
EPA 200.7	Cadmium	mg/L	0.885	1.00	88.5	85 - 115	X534169	22-Aug-25	
EPA 200.7	Calcium	mg/L	18.5	20.0	92.4	85 - 115	X534169	22-Aug-25	
EPA 200.7	Chromium	mg/L	0.922	1.00	92.2	85 - 115	X534169	22-Aug-25	
EPA 200.7	Cobalt	mg/L	0.880	1.00	88.0	85 - 115	X534169	22-Aug-25	
EPA 200.7	Copper	mg/L	0.891	1.00	89.1	85 - 115	X534169	22-Aug-25	
EPA 200.7	Iron	mg/L	9.36	10.0	93.6	85 - 115	X534169	22-Aug-25	
EPA 200.7	Lead	mg/L	0.887	1.00	88.7	85 - 115	X534169	22-Aug-25	
EPA 200.7	Lithium	mg/L	0.907	1.00	90.7	85 - 115	X534169	22-Aug-25	
EPA 200.7	Magnesium	mg/L	17.8	20.0	88.9	85 - 115	X534169	22-Aug-25	
EPA 200.7	Manganese	mg/L	0.927	1.00	92.7	85 - 115	X534169	22-Aug-25	
EPA 200.7	Molybdenum	mg/L	0.927	1.00	92.7	85 - 115	X534169	22-Aug-25	
EPA 200.7	Nickel	mg/L	0.877	1.00	87.7	85 - 115	X534169	22-Aug-25	
EPA 200.7	Potassium	mg/L	18.9	20.0	94.4	85 - 115	X534169	22-Aug-25	
EPA 200.7	Silver	mg/L	0.0430	0.0500	86.1	85 - 115	X534169	22-Aug-25	
EPA 200.7	Sodium	mg/L	17.6	19.0	92.6	85 - 115	X534169	22-Aug-25	
EPA 200.7	Vanadium	mg/L	0.918	1.00	91.8	85 - 115	X534169	22-Aug-25	
EPA 200.7	Zinc	mg/L	0.892	1.00	89.2	85 - 115	X534169	22-Aug-25	
EPA 200.8	Antimony	mg/L	0.0252	0.0250	101	85 - 115	X535057	27-Aug-25	
EPA 200.8	Arsenic	mg/L	0.0216	0.0250	86.2	85 - 115	X535057	27-Aug-25	
EPA 200.8	Arsenic	mg/L	0.0258	0.0250	103	85 - 115	X535057	27-Aug-25	
EPA 200.8	Selenium	mg/L	0.0257	0.0250	103	85 - 115	X535057	27-Aug-25	
EPA 200.8	Thallium	mg/L	0.0253	0.0250	101	85 - 115	X535057	27-Aug-25	
EPA 200.8	Uranium	mg/L	0.0257	0.0250	103	85 - 115	X535057	27-Aug-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00203	0.00200	102	85 - 115	X534038	22-Aug-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.101	0.100	101	90 - 110	X535118	28-Aug-25	
EPA 335.4	Cyanide (total)	mg/L	0.0959	0.100	95.9	90 - 110	X535006	26-Aug-25	
EPA 350.1	Ammonia as N	mg/L	0.979	1.00	97.9	90 - 110	X535089	27-Aug-25	
OIA 1677	Cyanide (WAD)	mg/L	0.104	0.100	104	90 - 110	X534162	26-Aug-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1210	1180	103	95.4 - 104	X535227	29-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.0	9.93	101	94 - 106	X535052	27-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	98.8	99.3	99.5	94 - 106	X535052	27-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	233	250	93.2	85 - 115	X534164	22-Aug-25	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X534165	25-Aug-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	2.97	3.00	99.1	90 - 110	X534145	20-Aug-25	
EPA 300.0	Fluoride	mg/L	1.92	2.00	96.2	90 - 110	X534145	20-Aug-25	
EPA 300.0	Nitrate as N	mg/L	1.94	2.00	97.1	90 - 110	X534145	20-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.46	4.50	99.1	90 - 110	X534145	20-Aug-25	
EPA 300.0	Nitrite as N	mg/L	2.52	2.50	101	90 - 110	X534145	20-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	9.64	10.0	96.4	90 - 110	X534145	20-Aug-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: **X5H0340**

Reported: 02-Sep-25 13:14

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	X535227 - X5H0330-01	29-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	107	107	0.1	20	X535052 - X5H0330-02	27-Aug-25	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	107	107	0.1	20	X535052 - X5H0330-02	27-Aug-25	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X535052 - X5H0330-02	27-Aug-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X535052 - X5H0330-02	27-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	236	230	2.6	10	X534164 - X5H0357-01	22-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	316	312	1.3	10	X534164 - X5H0338-02	22-Aug-25	
SM 2540 D	Total Susp. Solids	mg/L	22.0	21.0	4.7	10	X534165 - X5H0338-02	25-Aug-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X534165 - X5H0357-01	25-Aug-25	
SM 4500 H B	pH @17.5°C	pH Units	6.9	7.0	1.3	20	X535052 - X5H0330-02	27-Aug-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	409	406	20.0	0.30R>S	70 - 130	X535206 - X5H0382-03	02-Sep-25	M3
EPA 200.7	Calcium	mg/L	548	523	20.0	125	70 - 130	X535206 - X5H0330-01	02-Sep-25	
EPA 200.7	Magnesium	mg/L	50.8	30.0	20.0	104	70 - 130	X535206 - X5H0330-01	02-Sep-25	
EPA 200.7	Magnesium	mg/L	356	379	20.0	0.30R>S	70 - 130	X535206 - X5H0382-03	02-Sep-25	M3
EPA 200.7	Potassium	mg/L	57.2	36.4	20.0	104	70 - 130	X535206 - X5H0330-01	02-Sep-25	
EPA 200.7	Potassium	mg/L	18.4	<0.50	20.0	92.1	70 - 130	X535206 - X5H0382-03	02-Sep-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.25	<0.080	1.00	125	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Aluminum	mg/L	1.18	<0.080	1.00	118	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Barium	mg/L	1.23	0.0237	1.00	121	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Barium	mg/L	1.35	0.196	1.00	116	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Beryllium	mg/L	1.18	<0.00200	1.00	118	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Beryllium	mg/L	1.09	<0.00200	1.00	109	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Boron	mg/L	1.29	0.0805	1.00	121	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Boron	mg/L	1.13	<0.0400	1.00	113	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Cadmium	mg/L	1.11	<0.0020	1.00	111	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Cadmium	mg/L	1.10	<0.0020	1.00	110	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Calcium	mg/L	320	300	20.0	99.3	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Calcium	mg/L	43.2	21.0	20.0	111	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Chromium	mg/L	1.18	<0.0060	1.00	118	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Chromium	mg/L	1.12	<0.0060	1.00	112	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Cobalt	mg/L	1.11	0.0161	1.00	110	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Cobalt	mg/L	1.07	<0.0060	1.00	107	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Copper	mg/L	1.16	<0.0100	1.00	116	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Copper	mg/L	1.05	<0.0100	1.00	105	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Iron	mg/L	12.2	<0.100	10.0	122	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Iron	mg/L	20.6	9.46	10.0	112	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Lead	mg/L	1.12	<0.0075	1.00	112	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Lead	mg/L	1.10	<0.0075	1.00	110	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Lithium	mg/L	1.41	0.111	1.00	130	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Lithium	mg/L	1.33	<0.040	1.00	130	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Magnesium	mg/L	99.1	76.8	20.0	112	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Magnesium	mg/L	34.4	12.3	20.0	110	70 - 130	X534169 - X5H0340-01	22-Aug-25	

SVL holds the following certifications:

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

Work order Report Page 6 of 10

**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: **X5H0340**

Reported: 02-Sep-25 13:14

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	4.20	3.12	1.00	109	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Manganese	mg/L	3.35	2.30	1.00	105	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Molybdenum	mg/L	1.15	<0.0080	1.00	115	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Molybdenum	mg/L	1.12	<0.0080	1.00	112	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Nickel	mg/L	1.09	<0.0100	1.00	109	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Nickel	mg/L	1.05	<0.0100	1.00	105	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Potassium	mg/L	32.0	8.13	20.0	119	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Potassium	mg/L	23.9	1.13	20.0	114	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Silver	mg/L	0.0514	<0.0050	0.0500	103	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Silver	mg/L	0.0500	<0.0050	0.0500	100	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Sodium	mg/L	107	85.5	19.0	111	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Sodium	mg/L	32.2	11.4	19.0	110	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Vanadium	mg/L	1.20	<0.0050	1.00	120	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Vanadium	mg/L	1.12	<0.0050	1.00	112	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Zinc	mg/L	1.33	0.181	1.00	115	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Zinc	mg/L	1.14	0.0212	1.00	112	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.8	Antimony	mg/L	0.0247	<0.00100	0.0250	99.0	70 - 130	X535057 - X5H0201-01	27-Aug-25	
EPA 200.8	Antimony	mg/L	0.0246	<0.00100	0.0250	98.4	70 - 130	X535057 - X5H0338-01	27-Aug-25	
EPA 200.8	Arsenic	mg/L	0.0266	0.00121	0.0250	102	70 - 130	X535057 - X5H0201-01	27-Aug-25	
EPA 200.8	Arsenic	mg/L	0.0253	<0.00100	0.0250	100	70 - 130	X535057 - X5H0338-01	27-Aug-25	
EPA 200.8	Selenium	mg/L	0.0257	<0.00100	0.0250	102	70 - 130	X535057 - X5H0201-01	27-Aug-25	
EPA 200.8	Selenium	mg/L	0.0262	<0.00100	0.0250	105	70 - 130	X535057 - X5H0338-01	27-Aug-25	
EPA 200.8	Thallium	mg/L	0.0253	<0.000200	0.0250	101	70 - 130	X535057 - X5H0201-01	27-Aug-25	
EPA 200.8	Thallium	mg/L	0.0235	<0.000200	0.0250	94.0	70 - 130	X535057 - X5H0338-01	27-Aug-25	
EPA 200.8	Uranium	mg/L	0.0293	0.00269	0.0250	106	70 - 130	X535057 - X5H0201-01	27-Aug-25	
EPA 200.8	Uranium	mg/L	0.0248	<0.000100	0.0250	99.0	70 - 130	X535057 - X5H0338-01	27-Aug-25	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00500	0.00292	0.00200	104	70 - 130	X534038 - X5H0270-01	22-Aug-25	
EPA 245.1	Mercury	mg/L	0.00215	<0.000200	0.00200	107	70 - 130	X534038 - X5H0306-01	22-Aug-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.111	<0.0050	0.100	111	79 - 121	X535118 - X5H0338-02	28-Aug-25	
EPA 335.4	Cyanide (total)	mg/L	0.103	<0.0050	0.100	103	90 - 110	X535006 - X5H0338-03	26-Aug-25	
EPA 335.4	Cyanide (total)	mg/L	0.103	<0.0050	0.100	103	90 - 110	X535006 - X5H0338-02	26-Aug-25	
EPA 350.1	Ammonia as N	mg/L	1.04	<0.030	1.00	104	90 - 110	X535089 - X5H0380-02	27-Aug-25	
EPA 350.1	Ammonia as N	mg/L	1.12	<0.030	1.00	110	90 - 110	X535089 - X5H0382-03	27-Aug-25	
OIA 1677	Cyanide (WAD)	mg/L	0.105	<0.0050	0.100	105	82 - 118	X534162 - X5H0203-03	26-Aug-25	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.38	0.53	3.00	94.8	90 - 110	X534145 - X5H0339-01	20-Aug-25	
EPA 300.0	Chloride	mg/L	6.81	3.88	3.00	97.6	90 - 110	X534145 - X5H0343-01	20-Aug-25	
EPA 300.0	Fluoride	mg/L	2.24	0.304	2.00	96.7	90 - 110	X534145 - X5H0339-01	20-Aug-25	
EPA 300.0	Fluoride	mg/L	2.08	0.137	2.00	97.0	90 - 110	X534145 - X5H0343-01	20-Aug-25	
EPA 300.0	Nitrate as N	mg/L	1.94	<0.050	2.00	95.0	90 - 110	X534145 - X5H0339-01	20-Aug-25	
EPA 300.0	Nitrate as N	mg/L	2.62	0.676	2.00	97.1	90 - 110	X534145 - X5H0343-01	20-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.90	<0.100	4.00	97.4	90 - 110	X534145 - X5H0339-01	20-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.64	0.676	4.00	99.1	90 - 110	X534145 - X5H0343-01	20-Aug-25	
EPA 300.0	Nitrite as N	mg/L	1.95	<0.050	2.00	97.7	90 - 110	X534145 - X5H0339-01	20-Aug-25	
EPA 300.0	Nitrite as N	mg/L	2.02	<0.050	2.00	101	90 - 110	X534145 - X5H0343-01	20-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	20.2	10.3	10.0	99.6	90 - 110	X534145 - X5H0339-01	20-Aug-25	

SVL holds the following certifications:

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

Work order Report Page 7 of 10

**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: **X5H0340**

Reported: 02-Sep-25 13:14

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	14.7	5.02	10.0	96.6	90 - 110	X534145 - X5H0343-01	20-Aug-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	535	548	20.0	2.0	20	0.30R>S	X535206 - X5H0330-01	M4
EPA 200.7	Magnesium	mg/L	51.7	50.8	20.0	1.7	20	108	X535206 - X5H0330-01	
EPA 200.7	Potassium	mg/L	57.4	57.2	20.0	0.2	20	105	X535206 - X5H0330-01	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.23	1.25	1.00	1.3	20	123	X534169 - X5H0245-01	
EPA 200.7	Barium	mg/L	1.25	1.23	1.00	1.2	20	122	X534169 - X5H0245-01	
EPA 200.7	Beryllium	mg/L	1.14	1.18	1.00	3.7	20	114	X534169 - X5H0245-01	
EPA 200.7	Boron	mg/L	1.30	1.29	1.00	0.8	20	122	X534169 - X5H0245-01	
EPA 200.7	Cadmium	mg/L	1.11	1.11	1.00	0.1	20	111	X534169 - X5H0245-01	
EPA 200.7	Calcium	mg/L	312	320	20.0	2.5	20	0.30R>S	X534169 - X5H0245-01	M3
EPA 200.7	Chromium	mg/L	1.17	1.18	1.00	0.6	20	117	X534169 - X5H0245-01	
EPA 200.7	Cobalt	mg/L	1.11	1.11	1.00	0.1	20	110	X534169 - X5H0245-01	
EPA 200.7	Copper	mg/L	1.16	1.16	1.00	0.1	20	116	X534169 - X5H0245-01	
EPA 200.7	Iron	mg/L	11.9	12.2	10.0	2.3	20	119	X534169 - X5H0245-01	
EPA 200.7	Lead	mg/L	1.13	1.12	1.00	0.6	20	113	X534169 - X5H0245-01	
EPA 200.7	Lithium	mg/L	1.40	1.41	1.00	0.4	20	129	X534169 - X5H0245-01	
EPA 200.7	Magnesium	mg/L	98.3	99.1	20.0	0.8	20	108	X534169 - X5H0245-01	
EPA 200.7	Manganese	mg/L	4.14	4.20	1.00	1.5	20	102	X534169 - X5H0245-01	
EPA 200.7	Molybdenum	mg/L	1.16	1.15	1.00	0.9	20	116	X534169 - X5H0245-01	
EPA 200.7	Nickel	mg/L	1.09	1.09	1.00	0.2	20	109	X534169 - X5H0245-01	
EPA 200.7	Potassium	mg/L	31.4	32.0	20.0	1.9	20	116	X534169 - X5H0245-01	
EPA 200.7	Silver	mg/L	0.0535	0.0514	0.0500	3.9	20	107	X534169 - X5H0245-01	
EPA 200.7	Sodium	mg/L	104	107	19.0	2.3	20	98.0	X534169 - X5H0245-01	
EPA 200.7	Vanadium	mg/L	1.19	1.20	1.00	0.8	20	119	X534169 - X5H0245-01	
EPA 200.7	Zinc	mg/L	1.33	1.33	1.00	0.1	20	115	X534169 - X5H0245-01	
EPA 200.8	Antimony	mg/L	0.0251	0.0247	0.0250	1.6	20	101	X535057 - X5H0201-01	
EPA 200.8	Arsenic	mg/L	0.0271	0.0266	0.0250	1.6	20	103	X535057 - X5H0201-01	
EPA 200.8	Selenium	mg/L	0.0265	0.0257	0.0250	3.1	20	105	X535057 - X5H0201-01	
EPA 200.8	Thallium	mg/L	0.0253	0.0253	0.0250	0.1	20	101	X535057 - X5H0201-01	
EPA 200.8	Uranium	mg/L	0.0293	0.0293	0.0250	0.1	20	107	X535057 - X5H0201-01	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00499	0.00500	0.00200	0.0	20	104	X534038 - X5H0270-01	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.113	0.111	0.100	1.6	11	113	X535118 - X5H0338-02	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.103	0.100	0.1	20	103	X535006 - X5H0338-03	
EPA 350.1	Ammonia as N	mg/L	1.03	1.04	1.00	0.8	20	103	X535089 - X5H0380-02	
OIA 1677	Cyanide (WAD)	mg/L	0.103	0.105	0.100	1.8	11	103	X534162 - X5H0203-03	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	6.76	6.81	3.00	0.7	20	96.0	X534145 - X5H0343-01	
EPA 300.0	Fluoride	mg/L	2.14	2.08	2.00	2.8	20	99.9	X534145 - X5H0343-01	
EPA 300.0	Nitrate as N	mg/L	2.63	2.62	2.00	0.3	20	97.5	X534145 - X5H0343-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.68	4.64	4.00	1.0	20	100	X534145 - X5H0343-01	
EPA 300.0	Nitrite as N	mg/L	2.06	2.02	2.00	1.8	20	103	X534145 - X5H0343-01	



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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: X5H0340			
Cripple Creek, CO 80813				Reported: 02-Sep-25 13:14			

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	14.6	14.7	10.0	0.3	20	96.2	X534145 - X5H0343-01	



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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: **X5H0340**

Reported: 02-Sep-25 13:14

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.
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: **X5H0338**

Reported: 02-Sep-25 12:59

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-4A	X5H0338-01	Ground Water	19-Aug-25 10:10	TR	20-Aug-2025	
GVMW-15A	X5H0338-02	Ground Water	19-Aug-25 11:18	TR	20-Aug-2025	
GVMW-15B	X5H0338-03	Ground Water	19-Aug-25 12:10	TR	20-Aug-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: X5H0338

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: **X5H0338**

Reported: 02-Sep-25 12:59

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

Sampled: 19-Aug-25 10:10

SVL Sample ID: **X5H0338-01 (Ground Water)**

Received: 20-Aug-25

Sampled By: TR

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	18.4	mg/L	0.100	0.069		X535206	MAC	09/02/25 09:19	
EPA 200.7	Magnesium	11.1	mg/L	0.500	0.090		X535206	MAC	09/02/25 09:19	
EPA 200.7	Potassium	1.55	mg/L	0.50	0.18		X535206	MAC	09/02/25 09:19	
SM 2340 B	Hardness (as CaCO3)	100	mg/L	2.31	0.543		N/A		08/22/25 12:40	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X534169	SJN	08/22/25 12:40	
EPA 200.7	Barium	0.203	mg/L	0.0020	0.0019		X534169	SJN	08/22/25 12:40	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X534169	SJN	08/22/25 12:40	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X534169	SJN	08/22/25 12:40	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X534169	SJN	08/22/25 12:40	
EPA 200.7	Calcium	21.9	mg/L	0.100	0.069		X534169	SJN	08/22/25 12:40	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X534169	SJN	08/22/25 12:40	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X534169	SJN	08/22/25 12:40	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X534169	SJN	08/22/25 12:40	
EPA 200.7	Iron	9.61	mg/L	0.100	0.056		X534169	SJN	08/22/25 12:40	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X534169	SJN	08/22/25 12:40	
EPA 200.7	Lithium	0.056	mg/L	0.040	0.025		X534169	SJN	08/22/25 12:40	
EPA 200.7	Magnesium	12.5	mg/L	0.500	0.090		X534169	SJN	08/22/25 12:40	
EPA 200.7	Manganese	2.31	mg/L	0.0080	0.0034		X534169	SJN	08/22/25 12:40	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X534169	SJN	08/22/25 12:40	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X534169	SJN	08/22/25 12:40	
EPA 200.7	Potassium	1.19	mg/L	0.50	0.18		X534169	SJN	08/22/25 12:40	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X534169	SJN	08/22/25 12:40	
EPA 200.7	Sodium	11.7	mg/L	0.50	0.12		X534169	SJN	08/22/25 12:40	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X534169	SJN	08/22/25 12:40	
EPA 200.7	Zinc	0.0229	mg/L	0.0100	0.0054		X534169	SJN	08/22/25 12:40	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X535057	SMU	08/27/25 19:13	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X535057	SMU	08/27/25 19:13	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X535057	SMU	08/27/25 19:13	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X535057	SMU	08/27/25 19:13	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X535057	SMU	08/27/25 19:13	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X534038	MAC	08/22/25 17:34	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X535118	ORW	08/28/25 12:17	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X535006	JPM	08/26/25 09:29	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X534161	ORW	08/22/25 17:38	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X534162	ORW	08/26/25 17:47	
SM 2310 B	Acidity to pH 8.3	-51.0	mg/L as CaCO3	10.0			X535227	MWD	08/29/25 12:14	
SM 2320 B	Total Alkalinity	50.7	mg/L as CaCO3	1.0			X535052	MWD	08/27/25 12:12	
SM 2320 B	Bicarbonate	50.7	mg/L as CaCO3	1.0			X535052	MWD	08/27/25 12:12	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X535052	MWD	08/27/25 12:12	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X535052	MWD	08/27/25 12:12	
SM 2540 C	Total Diss. Solids	224	mg/L	10			X534164	TJL	08/22/25 13:20	
SM 2540 D	Total Susp. Solids	7.0	mg/L	5.0			X534165	TJL	08/25/25 18:55	
SM 4500 H B	pH @19.4°C	6.5	pH Units				X535052	MWD	08/27/25 12:12	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: X5H0338 Reported: 02-Sep-25 12:59
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Client Sample ID: **GVMW-4A**
SVL Sample ID: **X5H0338-01 (Ground Water)**

Sampled: 19-Aug-25 10:10
Received: 20-Aug-25
Sampled By: TR

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	5.09	mg/L	0.20	0.02		X534145	RS	08/20/25 17:02	
EPA 300.0	Fluoride	0.121	mg/L	0.100	0.017		X534145	RS	08/20/25 17:02	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X534145	RS	08/20/25 17:02	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X534145	RS	08/20/25 17:02	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X534145	RS	08/20/25 17:02	
EPA 300.0	Sulfate as SO4	61.6	mg/L	3.00	1.80	10	X534145	RS	08/20/25 17:18	

Cation/Anion Balance and TDS Ratios

Cation Sum: 2.82 meq/L	Anion Sum: 2.45 meq/L	C/A Balance: 7.01 %	Calculated TDS: 142	TDS/cTDS: 1.57
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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: **X5H0338**

Reported: 02-Sep-25 12:59

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

Sampled: 19-Aug-25 11:18

Received: 20-Aug-25

Sampled By: TR

SVL Sample ID: **X5H0338-02 (Ground Water)****Sample Report Page 1 of 2**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	21.4	mg/L	0.100	0.069		X535206	MAC	09/02/25 09:21	
EPA 200.7	Magnesium	19.0	mg/L	0.500	0.090		X535206	MAC	09/02/25 09:21	
EPA 200.7	Potassium	2.12	mg/L	0.50	0.18		X535206	MAC	09/02/25 09:21	
SM 2340 B	Hardness (as CaCO3)	139	mg/L	2.31	0.543		N/A		08/22/25 13:02	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X534169	SJN	08/22/25 13:02	
EPA 200.7	Barium	0.0633	mg/L	0.0020	0.0019		X534169	SJN	08/22/25 13:02	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X534169	SJN	08/22/25 13:02	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X534169	SJN	08/22/25 13:02	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X534169	SJN	08/22/25 13:02	
EPA 200.7	Calcium	24.5	mg/L	0.100	0.069		X534169	SJN	08/22/25 13:02	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X534169	SJN	08/22/25 13:02	
EPA 200.7	Cobalt	0.0376	mg/L	0.0060	0.0046		X534169	SJN	08/22/25 13:02	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X534169	SJN	08/22/25 13:02	
EPA 200.7	Iron	41.1	mg/L	0.100	0.056		X534169	SJN	08/22/25 13:02	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X534169	SJN	08/22/25 13:02	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X534169	SJN	08/22/25 14:48	
EPA 200.7	Magnesium	21.2	mg/L	0.500	0.090		X534169	SJN	08/22/25 13:02	
EPA 200.7	Manganese	2.36	mg/L	0.0080	0.0034		X534169	SJN	08/22/25 13:02	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X534169	SJN	08/22/25 13:02	
EPA 200.7	Nickel	0.0613	mg/L	0.0100	0.0048		X534169	SJN	08/22/25 13:02	
EPA 200.7	Potassium	2.07	mg/L	0.50	0.18		X534169	SJN	08/22/25 13:02	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X534169	SJN	08/22/25 13:02	
EPA 200.7	Sodium	15.9	mg/L	0.50	0.12		X534169	SJN	08/22/25 13:02	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X534169	SJN	08/22/25 13:02	
EPA 200.7	Zinc	0.254	mg/L	0.0100	0.0054		X534169	SJN	08/22/25 13:02	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X535057	SMU	08/27/25 19:18	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X535057	SMU	08/27/25 19:18	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X535057	SMU	08/27/25 19:18	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X535057	SMU	08/27/25 19:18	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X535057	SMU	08/27/25 19:18	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X534038	MAC	08/22/25 17:41	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X535118	ORW	08/28/25 12:32	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X535006	JPM	08/26/25 09:31	
EPA 350.1	Ammonia as N	0.035	mg/L	0.030	0.013		X534161	ORW	08/22/25 17:41	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X534162	ORW	08/26/25 17:50	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X535227	MWD	08/29/25 12:14	
SM 2320 B	Total Alkalinity	4.6	mg/L as CaCO3	1.0			X535052	MWD	08/27/25 12:17	
SM 2320 B	Bicarbonate	4.6	mg/L as CaCO3	1.0			X535052	MWD	08/27/25 12:17	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X535052	MWD	08/27/25 12:17	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X535052	MWD	08/27/25 12:17	
SM 2540 C	Total Diss. Solids	312	mg/L	10			X534164	TJL	08/22/25 13:20	
SM 2540 D	Total Susp. Solids	21.0	mg/L	5.0			X534165	TJL	08/25/25 18:55	
SM 4500 H B	pH @19.8°C	5.7	pH Units				X535052	MWD	08/27/25 12:17	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: X5H0338 Reported: 02-Sep-25 12:59
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Client Sample ID: **GVMW-15A**
SVL Sample ID: **X5H0338-02 (Ground Water)**

Sampled: 19-Aug-25 11:18
Received: 20-Aug-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	1.48	mg/L	0.20	0.02		X534145	RS	08/20/25 17:35	
EPA 300.0	Fluoride	0.280	mg/L	0.100	0.017		X534145	RS	08/20/25 17:35	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X534145	RS	08/20/25 17:35	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X534145	RS	08/20/25 17:35	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X534145	RS	08/20/25 17:35	
EPA 300.0	Sulfate as SO4	180	mg/L	3.00	1.80	10	X534145	RS	08/20/25 17:51	

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.95 meq/L	Anion Sum: 3.90 meq/L	C/A Balance: 11.92 %	Calculated TDS: 246	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: **X5H0338**

Reported: 02-Sep-25 12:59

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

Sampled: 19-Aug-25 12:10

Received: 20-Aug-25

Sampled By: TR

SVL Sample ID: **X5H0338-03 (Ground Water)****Sample Report Page 1 of 2**

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

EPA 200.7	Calcium	53.0	mg/L	0.100	0.069		X535206	MAC	09/02/25 09:43	
EPA 200.7	Magnesium	28.7	mg/L	0.500	0.090		X535206	MAC	09/02/25 09:43	
EPA 200.7	Potassium	2.57	mg/L	0.50	0.18		X535206	MAC	09/02/25 09:43	
SM 2340 B	Hardness (as CaCO3)	248	mg/L	2.31	0.543		N/A		09/02/25 09:43	

Metals (Dissolved)

EPA 200.7	Aluminum	0.516	mg/L	0.080	0.054		X534169	SJN	08/22/25 13:05	
EPA 200.7	Barium	0.0211	mg/L	0.0020	0.0019		X534169	SJN	08/22/25 13:05	
EPA 200.7	Beryllium	0.0324	mg/L	0.00200	0.00080		X534169	SJN	08/22/25 13:05	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X534169	SJN	08/22/25 13:05	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X534169	SJN	08/22/25 13:05	
EPA 200.7	Calcium	50.4	mg/L	0.100	0.069		X534169	SJN	08/22/25 13:05	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X534169	SJN	08/22/25 13:05	
EPA 200.7	Cobalt	0.0781	mg/L	0.0060	0.0046		X534169	SJN	08/22/25 13:05	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X534169	SJN	08/22/25 13:05	
EPA 200.7	Iron	29.9	mg/L	0.100	0.056		X534169	SJN	08/22/25 13:05	
EPA 200.7	Lead	0.0711	mg/L	0.0075	0.0049		X534169	SJN	08/22/25 13:05	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X534169	SJN	08/22/25 14:50	
EPA 200.7	Magnesium	28.0	mg/L	0.500	0.090		X534169	SJN	08/22/25 13:05	
EPA 200.7	Manganese	1.88	mg/L	0.0080	0.0034		X534169	SJN	08/22/25 13:05	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X534169	SJN	08/22/25 13:05	
EPA 200.7	Nickel	0.123	mg/L	0.0100	0.0048		X534169	SJN	08/22/25 13:05	
EPA 200.7	Potassium	2.30	mg/L	0.50	0.18		X534169	SJN	08/22/25 13:05	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X534169	SJN	08/22/25 13:05	
EPA 200.7	Sodium	16.5	mg/L	0.50	0.12		X534169	SJN	08/22/25 13:05	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X534169	SJN	08/22/25 13:05	
EPA 200.7	Zinc	1.46	mg/L	0.0100	0.0054		X534169	SJN	08/22/25 13:05	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X535057	SMU	08/27/25 17:58	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X535057	SMU	08/27/25 17:58	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X535057	SMU	08/27/25 17:58	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X535057	SMU	08/27/25 17:58	
EPA 200.8	Uranium	0.00338	mg/L	0.000100	0.000052		X535057	SMU	08/27/25 17:58	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X534038	MAC	08/22/25 17:43	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X535118	ORW	08/28/25 12:35	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X535006	JPM	08/26/25 09:39	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X534161	ORW	08/22/25 17:45	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X534162	ORW	08/26/25 17:53	
SM 2310 B	Acidity to pH 8.3	46.2	mg/L as CaCO3	10.0			X535227	MWD	08/29/25 12:14	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X535052	MWD	08/27/25 12:33	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X535052	MWD	08/27/25 12:33	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X535052	MWD	08/27/25 12:33	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X535052	MWD	08/27/25 12:33	
SM 2540 C	Total Diss. Solids	499	mg/L	10			X534164	TJL	08/22/25 13:20	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X534165	TJL	08/25/25 18:55	
SM 4500 H B	pH @20.7°C	3.8	pH Units				X535052	MWD	08/27/25 12:33	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: X5H0338 Reported: 02-Sep-25 12:59
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Client Sample ID: **GVMW-15B**
SVL Sample ID: **X5H0338-03 (Ground Water)**

Sampled: 19-Aug-25 12:10
Received: 20-Aug-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	1.53	mg/L	0.20	0.02		X534145	RS	08/20/25 18:08	
EPA 300.0	Fluoride	0.417	mg/L	0.100	0.017		X534145	RS	08/20/25 18:08	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X534145	RS	08/20/25 18:08	
EPA 300.0	Nitrate+Nitrite as N	0.326	mg/L	0.100	0.044		X534145	RS	08/20/25 18:08	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X534145	RS	08/20/25 18:08	
EPA 300.0	Sulfate as SO4	289	mg/L	3.00	1.80	10	X534145	RS	08/20/25 18:24	

Cation/Anion Balance and TDS Ratios

Cation Sum: 6.52 meq/L	Anion Sum: 6.13 meq/L	C/A Balance: 3.12 %	Calculated TDS: 391	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: **X5H0338**

Reported: 02-Sep-25 12:59

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	X535206	02-Sep-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X535206	02-Sep-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X535206	02-Sep-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X534169	22-Aug-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X534169	22-Aug-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X534169	22-Aug-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X534169	22-Aug-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X534169	22-Aug-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X534169	22-Aug-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X534169	22-Aug-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X534169	22-Aug-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X534169	22-Aug-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X534169	22-Aug-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X534169	22-Aug-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X534169	22-Aug-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X534169	22-Aug-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X534169	22-Aug-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X534169	22-Aug-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X534169	22-Aug-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X534169	22-Aug-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X534169	22-Aug-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X534169	22-Aug-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X534169	22-Aug-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X534169	22-Aug-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X535057	27-Aug-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X535057	27-Aug-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X535057	27-Aug-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X535057	27-Aug-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X535057	27-Aug-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X534038	22-Aug-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X535118	28-Aug-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X535006	26-Aug-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X534161	22-Aug-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X534162	26-Aug-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X535227	29-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X535052	27-Aug-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X535052	27-Aug-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X535052	27-Aug-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X535052	27-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X534164	22-Aug-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X534165	25-Aug-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X534145	20-Aug-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X534145	20-Aug-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X534145	20-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X534145	20-Aug-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X534145	20-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X534145	20-Aug-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: **X5H0338**

Reported: 02-Sep-25 12:59

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	21.0	20.0	105	85 - 115	X535206	02-Sep-25	
EPA 200.7	Magnesium	mg/L	21.3	20.0	107	85 - 115	X535206	02-Sep-25	
EPA 200.7	Potassium	mg/L	21.2	20.0	106	85 - 115	X535206	02-Sep-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.920	1.00	92.0	85 - 115	X534169	22-Aug-25	
EPA 200.7	Barium	mg/L	0.957	1.00	95.7	85 - 115	X534169	22-Aug-25	
EPA 200.7	Beryllium	mg/L	0.907	1.00	90.7	85 - 115	X534169	22-Aug-25	
EPA 200.7	Boron	mg/L	0.951	1.00	95.1	85 - 115	X534169	22-Aug-25	
EPA 200.7	Cadmium	mg/L	0.885	1.00	88.5	85 - 115	X534169	22-Aug-25	
EPA 200.7	Calcium	mg/L	18.5	20.0	92.4	85 - 115	X534169	22-Aug-25	
EPA 200.7	Chromium	mg/L	0.922	1.00	92.2	85 - 115	X534169	22-Aug-25	
EPA 200.7	Cobalt	mg/L	0.880	1.00	88.0	85 - 115	X534169	22-Aug-25	
EPA 200.7	Copper	mg/L	0.891	1.00	89.1	85 - 115	X534169	22-Aug-25	
EPA 200.7	Iron	mg/L	9.36	10.0	93.6	85 - 115	X534169	22-Aug-25	
EPA 200.7	Lead	mg/L	0.887	1.00	88.7	85 - 115	X534169	22-Aug-25	
EPA 200.7	Lithium	mg/L	0.907	1.00	90.7	85 - 115	X534169	22-Aug-25	
EPA 200.7	Magnesium	mg/L	17.8	20.0	88.9	85 - 115	X534169	22-Aug-25	
EPA 200.7	Manganese	mg/L	0.927	1.00	92.7	85 - 115	X534169	22-Aug-25	
EPA 200.7	Molybdenum	mg/L	0.927	1.00	92.7	85 - 115	X534169	22-Aug-25	
EPA 200.7	Nickel	mg/L	0.877	1.00	87.7	85 - 115	X534169	22-Aug-25	
EPA 200.7	Potassium	mg/L	18.9	20.0	94.4	85 - 115	X534169	22-Aug-25	
EPA 200.7	Silver	mg/L	0.0430	0.0500	86.1	85 - 115	X534169	22-Aug-25	
EPA 200.7	Sodium	mg/L	17.6	19.0	92.6	85 - 115	X534169	22-Aug-25	
EPA 200.7	Vanadium	mg/L	0.918	1.00	91.8	85 - 115	X534169	22-Aug-25	
EPA 200.7	Zinc	mg/L	0.892	1.00	89.2	85 - 115	X534169	22-Aug-25	
EPA 200.8	Antimony	mg/L	0.0252	0.0250	101	85 - 115	X535057	27-Aug-25	
EPA 200.8	Arsenic	mg/L	0.0216	0.0250	86.2	85 - 115	X535057	27-Aug-25	
EPA 200.8	Arsenic	mg/L	0.0258	0.0250	103	85 - 115	X535057	27-Aug-25	
EPA 200.8	Selenium	mg/L	0.0257	0.0250	103	85 - 115	X535057	27-Aug-25	
EPA 200.8	Thallium	mg/L	0.0253	0.0250	101	85 - 115	X535057	27-Aug-25	
EPA 200.8	Uranium	mg/L	0.0257	0.0250	103	85 - 115	X535057	27-Aug-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00203	0.00200	102	85 - 115	X534038	22-Aug-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.101	0.100	101	90 - 110	X535118	28-Aug-25	
EPA 335.4	Cyanide (total)	mg/L	0.0959	0.100	95.9	90 - 110	X535006	26-Aug-25	
EPA 350.1	Ammonia as N	mg/L	0.972	1.00	97.2	90 - 110	X534161	22-Aug-25	
OIA 1677	Cyanide (WAD)	mg/L	0.104	0.100	104	90 - 110	X534162	26-Aug-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1210	1180	103	95.4 - 104	X535227	29-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.0	9.93	101	94 - 106	X535052	27-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	98.8	99.3	99.5	94 - 106	X535052	27-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	233	250	93.2	85 - 115	X534164	22-Aug-25	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X534165	25-Aug-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	2.97	3.00	99.1	90 - 110	X534145	20-Aug-25	
EPA 300.0	Fluoride	mg/L	1.92	2.00	96.2	90 - 110	X534145	20-Aug-25	
EPA 300.0	Nitrate as N	mg/L	1.94	2.00	97.1	90 - 110	X534145	20-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.46	4.50	99.1	90 - 110	X534145	20-Aug-25	
EPA 300.0	Nitrite as N	mg/L	2.52	2.50	101	90 - 110	X534145	20-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	9.64	10.0	96.4	90 - 110	X534145	20-Aug-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: **X5H0338**

Reported: 02-Sep-25 12:59

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	X535227 - X5H0330-01	29-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	107	107	0.1	20	X535052 - X5H0330-02	27-Aug-25	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	107	107	0.1	20	X535052 - X5H0330-02	27-Aug-25	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X535052 - X5H0330-02	27-Aug-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X535052 - X5H0330-02	27-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	236	230	2.6	10	X534164 - X5H0357-01	22-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	316	312	1.3	10	X534164 - X5H0338-02	22-Aug-25	
SM 2540 D	Total Susp. Solids	mg/L	22.0	21.0	4.7	10	X534165 - X5H0338-02	25-Aug-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X534165 - X5H0357-01	25-Aug-25	
SM 4500 H B	pH @17.5°C	pH Units	6.9	7.0	1.3	20	X535052 - X5H0330-02	27-Aug-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	409	406	20.0	0.30R>S	70 - 130	X535206 - X5H0382-03	02-Sep-25	M3
EPA 200.7	Calcium	mg/L	548	523	20.0	125	70 - 130	X535206 - X5H0330-01	02-Sep-25	
EPA 200.7	Magnesium	mg/L	50.8	30.0	20.0	104	70 - 130	X535206 - X5H0330-01	02-Sep-25	
EPA 200.7	Magnesium	mg/L	356	379	20.0	0.30R>S	70 - 130	X535206 - X5H0382-03	02-Sep-25	M3
EPA 200.7	Potassium	mg/L	57.2	36.4	20.0	104	70 - 130	X535206 - X5H0330-01	02-Sep-25	
EPA 200.7	Potassium	mg/L	18.4	<0.50	20.0	92.1	70 - 130	X535206 - X5H0382-03	02-Sep-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.25	<0.080	1.00	125	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Aluminum	mg/L	1.18	<0.080	1.00	118	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Barium	mg/L	1.23	0.0237	1.00	121	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Barium	mg/L	1.35	0.196	1.00	116	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Beryllium	mg/L	1.18	<0.00200	1.00	118	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Beryllium	mg/L	1.09	<0.00200	1.00	109	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Boron	mg/L	1.29	0.0805	1.00	121	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Boron	mg/L	1.13	<0.0400	1.00	113	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Cadmium	mg/L	1.11	<0.0020	1.00	111	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Cadmium	mg/L	1.10	<0.0020	1.00	110	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Calcium	mg/L	320	300	20.0	99.3	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Calcium	mg/L	43.2	21.0	20.0	111	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Chromium	mg/L	1.18	<0.0060	1.00	118	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Chromium	mg/L	1.12	<0.0060	1.00	112	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Cobalt	mg/L	1.11	0.0161	1.00	110	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Cobalt	mg/L	1.07	<0.0060	1.00	107	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Copper	mg/L	1.16	<0.0100	1.00	116	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Copper	mg/L	1.05	<0.0100	1.00	105	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Iron	mg/L	12.2	<0.100	10.0	122	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Iron	mg/L	20.6	9.46	10.0	112	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Lead	mg/L	1.12	<0.0075	1.00	112	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Lead	mg/L	1.10	<0.0075	1.00	110	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Lithium	mg/L	1.41	0.111	1.00	130	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Lithium	mg/L	1.33	<0.040	1.00	130	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Magnesium	mg/L	99.1	76.8	20.0	112	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Magnesium	mg/L	34.4	12.3	20.0	110	70 - 130	X534169 - X5H0340-01	22-Aug-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: **X5H0338**

Reported: 02-Sep-25 12:59

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	4.20	3.12	1.00	109	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Manganese	mg/L	3.35	2.30	1.00	105	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Molybdenum	mg/L	1.15	<0.0080	1.00	115	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Molybdenum	mg/L	1.12	<0.0080	1.00	112	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Nickel	mg/L	1.09	<0.0100	1.00	109	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Nickel	mg/L	1.05	<0.0100	1.00	105	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Potassium	mg/L	32.0	8.13	20.0	119	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Potassium	mg/L	23.9	1.13	20.0	114	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Silver	mg/L	0.0514	<0.0050	0.0500	103	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Silver	mg/L	0.0500	<0.0050	0.0500	100	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Sodium	mg/L	107	85.5	19.0	111	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Sodium	mg/L	32.2	11.4	19.0	110	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Vanadium	mg/L	1.20	<0.0050	1.00	120	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Vanadium	mg/L	1.12	<0.0050	1.00	112	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.7	Zinc	mg/L	1.33	0.181	1.00	115	70 - 130	X534169 - X5H0245-01	22-Aug-25	
EPA 200.7	Zinc	mg/L	1.14	0.0212	1.00	112	70 - 130	X534169 - X5H0340-01	22-Aug-25	
EPA 200.8	Antimony	mg/L	0.0247	<0.00100	0.0250	99.0	70 - 130	X535057 - X5H0201-01	27-Aug-25	
EPA 200.8	Antimony	mg/L	0.0246	<0.00100	0.0250	98.4	70 - 130	X535057 - X5H0338-01	27-Aug-25	
EPA 200.8	Arsenic	mg/L	0.0266	0.00121	0.0250	102	70 - 130	X535057 - X5H0201-01	27-Aug-25	
EPA 200.8	Arsenic	mg/L	0.0253	<0.00100	0.0250	100	70 - 130	X535057 - X5H0338-01	27-Aug-25	
EPA 200.8	Selenium	mg/L	0.0257	<0.00100	0.0250	102	70 - 130	X535057 - X5H0201-01	27-Aug-25	
EPA 200.8	Selenium	mg/L	0.0262	<0.00100	0.0250	105	70 - 130	X535057 - X5H0338-01	27-Aug-25	
EPA 200.8	Thallium	mg/L	0.0253	<0.000200	0.0250	101	70 - 130	X535057 - X5H0201-01	27-Aug-25	
EPA 200.8	Thallium	mg/L	0.0235	<0.000200	0.0250	94.0	70 - 130	X535057 - X5H0338-01	27-Aug-25	
EPA 200.8	Uranium	mg/L	0.0293	0.00269	0.0250	106	70 - 130	X535057 - X5H0201-01	27-Aug-25	
EPA 200.8	Uranium	mg/L	0.0248	<0.000100	0.0250	99.0	70 - 130	X535057 - X5H0338-01	27-Aug-25	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00500	0.00292	0.00200	104	70 - 130	X534038 - X5H0270-01	22-Aug-25	
EPA 245.1	Mercury	mg/L	0.00215	<0.000200	0.00200	107	70 - 130	X534038 - X5H0306-01	22-Aug-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.111	<0.0050	0.100	111	79 - 121	X535118 - X5H0338-02	28-Aug-25	
EPA 335.4	Cyanide (total)	mg/L	0.103	<0.0050	0.100	103	90 - 110	X535006 - X5H0338-03	26-Aug-25	
EPA 335.4	Cyanide (total)	mg/L	0.103	<0.0050	0.100	103	90 - 110	X535006 - X5H0338-02	26-Aug-25	
EPA 350.1	Ammonia as N	mg/L	0.998	0.035	1.00	96.3	90 - 110	X534161 - X5H0338-02	22-Aug-25	
EPA 350.1	Ammonia as N	mg/L	1.03	<0.030	1.00	102	90 - 110	X534161 - X5H0338-01	22-Aug-25	
OIA 1677	Cyanide (WAD)	mg/L	0.105	<0.0050	0.100	105	82 - 118	X534162 - X5H0203-03	26-Aug-25	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.38	0.53	3.00	94.8	90 - 110	X534145 - X5H0339-01	20-Aug-25	
EPA 300.0	Chloride	mg/L	6.81	3.88	3.00	97.6	90 - 110	X534145 - X5H0343-01	20-Aug-25	
EPA 300.0	Fluoride	mg/L	2.24	0.304	2.00	96.7	90 - 110	X534145 - X5H0339-01	20-Aug-25	
EPA 300.0	Fluoride	mg/L	2.08	0.137	2.00	97.0	90 - 110	X534145 - X5H0343-01	20-Aug-25	
EPA 300.0	Nitrate as N	mg/L	1.94	<0.050	2.00	95.0	90 - 110	X534145 - X5H0339-01	20-Aug-25	
EPA 300.0	Nitrate as N	mg/L	2.62	0.676	2.00	97.1	90 - 110	X534145 - X5H0343-01	20-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.90	<0.100	4.00	97.4	90 - 110	X534145 - X5H0339-01	20-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.64	0.676	4.00	99.1	90 - 110	X534145 - X5H0343-01	20-Aug-25	
EPA 300.0	Nitrite as N	mg/L	1.95	<0.050	2.00	97.7	90 - 110	X534145 - X5H0339-01	20-Aug-25	
EPA 300.0	Nitrite as N	mg/L	2.02	<0.050	2.00	101	90 - 110	X534145 - X5H0343-01	20-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	20.2	10.3	10.0	99.6	90 - 110	X534145 - X5H0339-01	20-Aug-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 2024Work Order: **X5H0338**

Reported: 02-Sep-25 12:59

Quality Control - MATRIX SPIKE Data (Continued)

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

EPA 300.0	Sulfate as SO4	mg/L	14.7	5.02	10.0	96.6	90 - 110	X534145 - X5H0343-01	20-Aug-25	
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Quality Control - MATRIX SPIKE DUPLICATE Data

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

EPA 200.7	Calcium	mg/L	535	548	20.0	2.0	20	0.30R>S	X535206 - X5H0330-01	M4
EPA 200.7	Magnesium	mg/L	51.7	50.8	20.0	1.7	20	108	X535206 - X5H0330-01	
EPA 200.7	Potassium	mg/L	57.4	57.2	20.0	0.2	20	105	X535206 - X5H0330-01	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.23	1.25	1.00	1.3	20	123	X534169 - X5H0245-01	
EPA 200.7	Barium	mg/L	1.25	1.23	1.00	1.2	20	122	X534169 - X5H0245-01	
EPA 200.7	Beryllium	mg/L	1.14	1.18	1.00	3.7	20	114	X534169 - X5H0245-01	
EPA 200.7	Boron	mg/L	1.30	1.29	1.00	0.8	20	122	X534169 - X5H0245-01	
EPA 200.7	Cadmium	mg/L	1.11	1.11	1.00	0.1	20	111	X534169 - X5H0245-01	
EPA 200.7	Calcium	mg/L	312	320	20.0	2.5	20	0.30R>S	X534169 - X5H0245-01	M3
EPA 200.7	Chromium	mg/L	1.17	1.18	1.00	0.6	20	117	X534169 - X5H0245-01	
EPA 200.7	Cobalt	mg/L	1.11	1.11	1.00	0.1	20	110	X534169 - X5H0245-01	
EPA 200.7	Copper	mg/L	1.16	1.16	1.00	0.1	20	116	X534169 - X5H0245-01	
EPA 200.7	Iron	mg/L	11.9	12.2	10.0	2.3	20	119	X534169 - X5H0245-01	
EPA 200.7	Lead	mg/L	1.13	1.12	1.00	0.6	20	113	X534169 - X5H0245-01	
EPA 200.7	Lithium	mg/L	1.40	1.41	1.00	0.4	20	129	X534169 - X5H0245-01	
EPA 200.7	Magnesium	mg/L	98.3	99.1	20.0	0.8	20	108	X534169 - X5H0245-01	
EPA 200.7	Manganese	mg/L	4.14	4.20	1.00	1.5	20	102	X534169 - X5H0245-01	
EPA 200.7	Molybdenum	mg/L	1.16	1.15	1.00	0.9	20	116	X534169 - X5H0245-01	
EPA 200.7	Nickel	mg/L	1.09	1.09	1.00	0.2	20	109	X534169 - X5H0245-01	
EPA 200.7	Potassium	mg/L	31.4	32.0	20.0	1.9	20	116	X534169 - X5H0245-01	
EPA 200.7	Silver	mg/L	0.0535	0.0514	0.0500	3.9	20	107	X534169 - X5H0245-01	
EPA 200.7	Sodium	mg/L	104	107	19.0	2.3	20	98.0	X534169 - X5H0245-01	
EPA 200.7	Vanadium	mg/L	1.19	1.20	1.00	0.8	20	119	X534169 - X5H0245-01	
EPA 200.7	Zinc	mg/L	1.33	1.33	1.00	0.1	20	115	X534169 - X5H0245-01	
EPA 200.8	Antimony	mg/L	0.0251	0.0247	0.0250	1.6	20	101	X535057 - X5H0201-01	
EPA 200.8	Arsenic	mg/L	0.0271	0.0266	0.0250	1.6	20	103	X535057 - X5H0201-01	
EPA 200.8	Selenium	mg/L	0.0265	0.0257	0.0250	3.1	20	105	X535057 - X5H0201-01	
EPA 200.8	Thallium	mg/L	0.0253	0.0253	0.0250	0.1	20	101	X535057 - X5H0201-01	
EPA 200.8	Uranium	mg/L	0.0293	0.0293	0.0250	0.1	20	107	X535057 - X5H0201-01	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00499	0.00500	0.00200	0.0	20	104	X534038 - X5H0270-01	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.113	0.111	0.100	1.6	11	113	X535118 - X5H0338-02	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.103	0.100	0.1	20	103	X535006 - X5H0338-03	
EPA 350.1	Ammonia as N	mg/L	1.05	0.998	1.00	5.1	20	102	X534161 - X5H0338-02	
OIA 1677	Cyanide (WAD)	mg/L	0.103	0.105	0.100	1.8	11	103	X534162 - X5H0203-03	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	6.76	6.81	3.00	0.7	20	96.0	X534145 - X5H0343-01	
EPA 300.0	Fluoride	mg/L	2.14	2.08	2.00	2.8	20	99.9	X534145 - X5H0343-01	
EPA 300.0	Nitrate as N	mg/L	2.63	2.62	2.00	0.3	20	97.5	X534145 - X5H0343-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.68	4.64	4.00	1.0	20	100	X534145 - X5H0343-01	
EPA 300.0	Nitrite as N	mg/L	2.06	2.02	2.00	1.8	20	103	X534145 - X5H0343-01	



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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: X5H0338				
Cripple Creek, CO 80813					Reported: 02-Sep-25 12:59				

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	14.6	14.7	10.0	0.3	20	96.2	X534145 - X5H0343-01	



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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: **X5H0338**

Reported: 02-Sep-25 12:59

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.
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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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: **X5H0382**

Reported: 09-Sep-25 14:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
OSABH-17	X5H0382-01	Ground Water	20-Aug-25 10:45	TR	21-Aug-2025	Q5C
GVMW-35A	X5H0382-02	Ground Water	20-Aug-25 01:15	TR	21-Aug-2025	
GVMW-28	X5H0382-03	Ground Water	20-Aug-25 11:53	TR	21-Aug-2025	Q5C
GVMW-33	X5H0382-04	Ground Water	20-Aug-25 12:50	TR	21-Aug-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: X5H0382

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: **X5H0382**

Reported: 09-Sep-25 14:35

Client Sample ID: **OSABH-17**

Sampled: 20-Aug-25 10:45

SVL Sample ID: **X5H0382-01 (Ground Water)**

Received: 21-Aug-25

Sampled By: TR

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	443	mg/L	2.00	1.38	20	X535206	MAC	09/02/25 10:33	D18
EPA 200.7	Magnesium	1690	mg/L	10.0	1.80	20	X535206	MAC	09/02/25 10:33	D18
EPA 200.7	Potassium	< 10.0	mg/L	10.0	3.60	20	X535206	MAC	09/02/25 10:33	D18
SM 2340 B	Hardness (as CaCO3)	8070	mg/L	43.7	9.14		N/A		08/28/25 10:06	

Metals (Dissolved)

EPA 200.7	Aluminum	4410	mg/L	0.800	0.540	10	X535122	NMS	08/28/25 10:06	D11
EPA 200.7	Barium	< 0.0200	mg/L	0.0200	0.0190	10	X535122	NMS	08/28/25 10:06	D11
EPA 200.7	Beryllium	0.792	mg/L	0.0200	0.00800	10	X535122	NMS	08/28/25 10:06	D11
EPA 200.7	Boron	< 0.400	mg/L	0.400	0.0780	10	X535122	NMS	08/28/25 10:06	D11
EPA 200.7	Cadmium	9.38	mg/L	0.0200	0.0160	10	X535122	NMS	08/28/25 10:06	D11
EPA 200.7	Calcium	439	mg/L	1.00	0.690	10	X535122	NMS	08/28/25 10:06	D11
EPA 200.7	Chromium	1.18	mg/L	0.0600	0.0200	10	X535122	NMS	08/28/25 10:06	D11
EPA 200.7	Cobalt	20.4	mg/L	0.0600	0.0460	10	X535122	NMS	08/28/25 10:06	D11
EPA 200.7	Copper	18.3	mg/L	0.100	0.0270	10	X535122	NMS	08/28/25 10:06	D11
EPA 200.7	Iron	132	mg/L	1.00	0.560	10	X535122	NMS	08/28/25 10:06	D11
EPA 200.7	Lead	< 0.0750	mg/L	0.0750	0.0490	10	X535122	NMS	08/28/25 10:06	D11
EPA 200.7	Lithium	1.99	mg/L	0.400	0.250	10	X535122	NMS	08/28/25 10:06	D11
EPA 200.7	Magnesium	1630	mg/L	5.00	0.900	10	X535122	NMS	08/28/25 10:06	D11
EPA 200.7	Manganese	1470	mg/L	0.800	0.340	100	X535122	NMS	08/29/25 06:51	D11
EPA 200.7	Molybdenum	0.128	mg/L	0.0800	0.0340	10	X535122	NMS	08/28/25 10:06	D11
EPA 200.7	Nickel	15.9	mg/L	0.100	0.0480	10	X535122	NMS	08/28/25 10:06	D11
EPA 200.7	Potassium	< 5.00	mg/L	5.00	1.80	10	X535122	NMS	08/28/25 10:06	D11
EPA 200.7	Silver	< 0.0500	mg/L	0.0500	0.0190	10	X535122	NMS	08/29/25 07:59	D11
EPA 200.7	Sodium	11.3	mg/L	5.00	1.20	10	X535122	NMS	08/28/25 10:06	D11
EPA 200.7	Vanadium	< 0.0500	mg/L	0.0500	0.0190	10	X535122	NMS	08/28/25 10:06	D11,E12
EPA 200.7	Zinc	361	mg/L	0.100	0.0540	10	X535122	NMS	08/28/25 10:06	D11
EPA 200.8	Antimony	< 0.0200	mg/L	0.0200	0.0144	20	X536062	JRR	09/05/25 13:29	D11
EPA 200.8	Arsenic	0.574	mg/L	0.0200	0.00420	20	X536062	JRR	09/05/25 13:29	D11
EPA 200.8	Selenium	0.0566	mg/L	0.0200	0.00480	20	X536062	JRR	09/05/25 13:29	D11
EPA 200.8	Thallium	< 0.00400	mg/L	0.00400	0.00160	20	X536062	JRR	09/05/25 13:29	D11
EPA 200.8	Uranium	15.5	mg/L	0.00200	0.00104	20	X536062	JRR	09/05/25 10:57	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X535039	SJN	08/26/25 16:46	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	0.0070	mg/L	0.0050	0.0048		X535118	ORW	08/28/25 12:41	
EPA 335.4	Cyanide (total)	0.0296	mg/L	0.0050	0.0038		X535006	JPM	08/26/25 09:42	
EPA 350.1	Ammonia as N	0.030	mg/L	0.030	0.013		X535089	ORW	08/27/25 17:26	
OIA 1677	Cyanide (WAD)	< 0.0500	mg/L	0.0500	0.0100	10	X535081	ORW	08/26/25 18:10	D20,Q12
SM 2310 B	Acidity to pH 8.3	26600	mg/L as CaCO3	10.0			X536050	MWD	09/03/25 11:15	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X535168	MWD	08/28/25 16:13	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X535168	MWD	08/28/25 16:13	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X535168	MWD	08/28/25 16:13	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X535168	MWD	08/28/25 16:13	
SM 2540 C	Total Diss. Solids	50500	mg/L	100			X534203	TJL	08/28/25 14:10	E11
SM 2540 D	Total Susp. Solids	200	mg/L	5.0			X535022	TJL	08/26/25 13:00	
SM 4500 H B	pH @22.3°C	2.8	pH Units				X535168	MWD	08/28/25 16:13	H5

SVL holds the following certifications:

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

Work order Report Page 2 of 16



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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: X5H0382 Reported: 09-Sep-25 14:35
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Client Sample ID: **OSABH-17**
SVL Sample ID: **X5H0382-01 (Ground Water)**

Sampled: 20-Aug-25 10:45
Received: 21-Aug-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	19.7	mg/L	2.00	0.22	10	X534178	RS	08/21/25 15:34	
EPA 300.0	Fluoride	534	mg/L	25.0	4.25	250	X534178	RS	08/21/25 15:50	
EPA 300.0	Nitrate as N	4.94	mg/L	0.500	0.130	10	X534178	RS	08/21/25 15:34	D18
EPA 300.0	Nitrate+Nitrite as N	5.07	mg/L	1.00	0.440	10	X534178	RS	08/21/25 15:34	D18
EPA 300.0	Nitrite as N	< 0.500	mg/L	0.500	0.310	10	X534178	RS	08/21/25 15:34	D18
EPA 300.0	Sulfate as SO4	35700	mg/L	300	180	1000	X534178	RS	08/22/25 10:17	

Cation/Anion Balance and TDS Ratios

Cation Sum: 717 meq/L	Anion Sum: 772 meq/L	C/A Balance: -3.70 %	Calculated TDS: 38388	TDS/cTDS: 1.32
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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: **X5H0382**

Reported: 09-Sep-25 14:35

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

Sampled: 20-Aug-25 01:15

Received: 21-Aug-25

Sampled By: TR

SVL Sample ID: **X5H0382-02 (Ground Water)**

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	182	mg/L	0.100	0.069		X535206	MAC	09/02/25 09:49	
EPA 200.7	Magnesium	6.96	mg/L	0.500	0.090		X535206	MAC	09/02/25 09:49	
EPA 200.7	Potassium	28.5	mg/L	0.50	0.18		X535206	MAC	09/02/25 09:49	
SM 2340 B	Hardness (as CaCO3)	451	mg/L	2.31	0.543		N/A		09/02/25 09:49	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X535122	NMS	08/28/25 10:08	
EPA 200.7	Barium	0.0549	mg/L	0.0020	0.0019		X535122	NMS	08/28/25 10:08	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X535122	NMS	08/28/25 10:08	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X535122	NMS	08/28/25 10:08	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X535122	NMS	08/28/25 10:08	
EPA 200.7	Calcium	179	mg/L	0.100	0.069		X535122	NMS	08/28/25 10:08	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X535122	NMS	08/28/25 10:08	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X535122	NMS	08/28/25 10:08	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X535122	NMS	08/28/25 10:08	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X535122	NMS	08/28/25 10:08	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X535122	NMS	08/28/25 10:08	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X535122	NMS	08/28/25 10:08	
EPA 200.7	Magnesium	0.675	mg/L	0.500	0.090		X535122	NMS	08/28/25 10:08	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X535122	NMS	08/28/25 10:08	
EPA 200.7	Molybdenum	0.0123	mg/L	0.0080	0.0034		X535122	NMS	08/28/25 10:08	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X535122	NMS	08/28/25 10:08	
EPA 200.7	Potassium	29.0	mg/L	0.50	0.18		X535122	NMS	08/28/25 10:08	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X535122	NMS	08/28/25 10:08	
EPA 200.7	Sodium	34.4	mg/L	0.50	0.12		X535122	NMS	08/28/25 10:08	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X535122	NMS	08/28/25 10:08	
EPA 200.7	Zinc	0.0139	mg/L	0.0100	0.0054		X535122	NMS	08/28/25 10:08	
EPA 200.8	Antimony	0.00418	mg/L	0.00100	0.00072		X536062	JRR	09/05/25 11:00	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X536062	JRR	09/05/25 13:31	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X536062	JRR	09/05/25 13:31	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X536062	JRR	09/05/25 13:31	
EPA 200.8	Uranium	0.000661	mg/L	0.000100	0.000052		X536062	JRR	09/05/25 11:00	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X535039	SJN	08/26/25 16:48	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X535118	ORW	08/28/25 12:44	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X535006	JPM	08/26/25 09:44	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X535089	ORW	08/27/25 17:28	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X535081	ORW	08/26/25 18:13	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X536050	MWD	09/03/25 11:15	
SM 2320 B	Total Alkalinity	88.4	mg/L as CaCO3	1.0			X535168	MWD	08/28/25 16:18	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X535168	MWD	08/28/25 16:18	
SM 2320 B	Carbonate	59.6	mg/L as CaCO3	1.0			X535168	MWD	08/28/25 16:18	
SM 2320 B	Hydroxide	28.8	mg/L as CaCO3	1.0			X535168	MWD	08/28/25 16:18	
SM 2540 C	Total Diss. Solids	732	mg/L	20			X534203	TJL	08/28/25 14:10	D4
SM 2540 D	Total Susp. Solids	36.0	mg/L	5.0			X535022	TJL	08/26/25 13:00	
SM 4500 H B	pH @22.5°C	11.1	pH Units				X535168	MWD	08/28/25 16:18	H5

SVL holds the following certifications:

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

Work order Report Page 4 of 16



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: X5H0382 Reported: 09-Sep-25 14:35
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Client Sample ID: **GVMW-35A**
SVL Sample ID: **X5H0382-02 (Ground Water)**

Sampled: 20-Aug-25 01:15
Received: 21-Aug-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	14.3	mg/L	10.0	1.10	50	X534178	RS	08/21/25 21:16	
EPA 300.0	Fluoride	0.133	mg/L	0.100	0.017		X534178	RS	08/21/25 21:01	
EPA 300.0	Nitrate as N	0.071	mg/L	0.050	0.013		X534178	RS	08/21/25 21:01	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X534178	RS	08/21/25 21:01	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X534178	RS	08/21/25 21:01	
EPA 300.0	Sulfate as SO4	417	mg/L	15.0	9.00	50	X534178	RS	08/21/25 21:16	

Cation/Anion Balance and TDS Ratios

Cation Sum: 11.2 meq/L	Anion Sum: 10.9 meq/L	C/A Balance: 1.65 %	Calculated TDS: 732	TDS/cTDS: 1.00
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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



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: **X5H0382**

Reported: 09-Sep-25 14:35

Client Sample ID: **GVMW-28**

Sampled: 20-Aug-25 11:53

Received: 21-Aug-25

Sampled By: TR

SVL Sample ID: **X5H0382-03 (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	406	mg/L	0.100	0.069		X535206	MAC	09/02/25 09:51	M3
EPA 200.7	Magnesium	379	mg/L	0.500	0.090		X535206	MAC	09/02/25 09:51	M3
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X535206	MAC	09/02/25 09:51	
SM 2340 B	Hardness (as CaCO3)	2740	mg/L	2.31	0.543		N/A		09/02/25 09:51	

Metals (Dissolved)

EPA 200.7	Aluminum	1060	mg/L	0.800	0.540	10	X535122	NMS	08/29/25 06:53	M4
EPA 200.7	Barium	0.0124	mg/L	0.0020	0.0019		X535122	NMS	08/28/25 10:10	
EPA 200.7	Beryllium	0.763	mg/L	0.00200	0.00080		X535122	NMS	08/28/25 10:10	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X535122	NMS	08/28/25 10:10	
EPA 200.7	Cadmium	2.07	mg/L	0.0020	0.0016		X535122	NMS	08/28/25 10:10	
EPA 200.7	Calcium	453	mg/L	0.100	0.069		X535122	NMS	08/28/25 10:10	
EPA 200.7	Chromium	0.248	mg/L	0.0060	0.0020		X535122	NMS	08/28/25 10:10	
EPA 200.7	Cobalt	1.99	mg/L	0.0060	0.0046		X535122	NMS	08/28/25 10:10	
EPA 200.7	Copper	5.15	mg/L	0.0100	0.0027		X535122	NMS	08/28/25 10:10	
EPA 200.7	Iron	58.9	mg/L	0.100	0.056		X535122	NMS	08/28/25 10:10	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X535122	NMS	08/28/25 10:10	
EPA 200.7	Lithium	0.381	mg/L	0.040	0.025		X535122	NMS	08/28/25 10:10	M1
EPA 200.7	Magnesium	419	mg/L	0.500	0.090		X535122	NMS	08/28/25 10:10	M3
EPA 200.7	Manganese	309	mg/L	0.0800	0.0340	10	X535122	NMS	08/29/25 06:53	M4
EPA 200.7	Molybdenum	0.0422	mg/L	0.0080	0.0034		X535122	NMS	08/28/25 10:10	
EPA 200.7	Nickel	3.20	mg/L	0.0100	0.0048		X535122	NMS	08/28/25 10:10	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X535122	NMS	08/28/25 10:10	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X535122	NMS	08/29/25 08:01	
EPA 200.7	Sodium	35.6	mg/L	0.50	0.12		X535122	NMS	08/28/25 10:10	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X535122	NMS	08/28/25 10:10	E12,M2
EPA 200.7	Zinc	83.8	mg/L	0.100	0.0540	10	X535122	NMS	08/29/25 06:53	M4
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X536062	JRR	09/05/25 11:03	
EPA 200.8	Arsenic	0.279	mg/L	0.00500	0.00105	5	X536062	JRR	09/05/25 13:34	D17
EPA 200.8	Selenium	0.0273	mg/L	0.00500	0.00120	5	X536062	JRR	09/05/25 13:34	D17
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.000400	5	X536062	JRR	09/05/25 13:34	D17
EPA 200.8	Uranium	2.69	mg/L	0.000500	0.000260	5	X536062	NMS	09/09/25 09:51	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X535039	SJN	08/26/25 16:50	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X535118	ORW	08/28/25 12:47	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X535006	JPM	08/26/25 09:46	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X535089	ORW	08/27/25 17:30	
OIA 1677	Cyanide (WAD)	< 0.0500	mg/L	0.0500	0.0100	10	X535081	ORW	08/26/25 18:29	D20,Q12
SM 2310 B	Acidity to pH 8.3	6720	mg/L as CaCO3	10.0			X536050	MWD	09/03/25 11:15	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X535168	MWD	08/28/25 16:29	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X535168	MWD	08/28/25 16:29	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X535168	MWD	08/28/25 16:29	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X535168	MWD	08/28/25 16:29	
SM 2540 C	Total Diss. Solids	13600	mg/L	100			X534203	TJL	08/28/25 14:10	
SM 2540 D	Total Susp. Solids	47.0	mg/L	5.0			X535022	TJL	08/26/25 13:00	
SM 4500 H B	pH @22.5°C	3.0	pH Units				X535168	MWD	08/28/25 16:29	H5

SVL holds the following certifications:

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

Work order Report Page 6 of 16



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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: X5H0382 Reported: 09-Sep-25 14:35
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Client Sample ID: **GVMW-28**
SVL Sample ID: **X5H0382-03 (Ground Water)**

Sampled: 20-Aug-25 11:53
Received: 21-Aug-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	4.64	mg/L	2.00	0.22	10	X534178	RS	08/21/25 18:10	D18
EPA 300.0	Fluoride	119	mg/L	25.0	4.25	250	X534178	RS	08/21/25 18:25	
EPA 300.0	Nitrate as N	6.32	mg/L	0.500	0.130	10	X534178	RS	08/21/25 18:10	D18
EPA 300.0	Nitrate+Nitrite as N	6.40	mg/L	1.00	0.440	10	X534178	RS	08/21/25 18:10	D18
EPA 300.0	Nitrite as N	< 0.500	mg/L	0.500	0.310	10	X534178	RS	08/21/25 18:10	D18
EPA 300.0	Sulfate as SO4	9770	mg/L	75.0	45.0	250	X534178	RS	08/21/25 18:25	

Cation/Anion Balance and TDS Ratios

Cation Sum: 187 meq/L	Anion Sum: 210 meq/L	C/A Balance: -5.75 %	Calculated TDS: 10786	TDS/cTDS: 1.26
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This data has been reviewed for accuracy and has been authorized for release.

Kristi A. Groth

Kristi A. Groth
Project Manager



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net

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: **X5H0382**

Reported: 09-Sep-25 14:35

Client Sample ID: **GVMW-33**

Sampled: 20-Aug-25 12:50

Received: 21-Aug-25

Sampled By: TR

SVL Sample ID: **X5H0382-04 (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	375	mg/L	0.100	0.069		X535206	MAC	09/02/25 10:05	
EPA 200.7	Magnesium	180	mg/L	0.500	0.090		X535206	MAC	09/02/25 10:05	
EPA 200.7	Potassium	10.3	mg/L	0.50	0.18		X535206	MAC	09/02/25 10:05	
SM 2340 B	Hardness (as CaCO3)	1850	mg/L	2.31	0.543		N/A		09/02/25 10:05	

Metals (Dissolved)

EPA 200.7	Aluminum	300	mg/L	0.080	0.054		X535122	NMS	08/28/25 10:15	
EPA 200.7	Barium	0.0238	mg/L	0.0020	0.0019		X535122	NMS	08/28/25 10:15	
EPA 200.7	Beryllium	0.355	mg/L	0.00200	0.00080		X535122	NMS	08/28/25 10:15	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X535122	NMS	08/28/25 10:15	
EPA 200.7	Cadmium	0.665	mg/L	0.0020	0.0016		X535122	NMS	08/28/25 10:15	
EPA 200.7	Calcium	417	mg/L	0.100	0.069		X535122	NMS	08/28/25 10:15	
EPA 200.7	Chromium	0.110	mg/L	0.0060	0.0020		X535122	NMS	08/28/25 10:15	
EPA 200.7	Cobalt	0.413	mg/L	0.0060	0.0046		X535122	NMS	08/28/25 10:15	
EPA 200.7	Copper	0.490	mg/L	0.0100	0.0027		X535122	NMS	08/28/25 10:15	
EPA 200.7	Iron	1.90	mg/L	0.100	0.056		X535122	NMS	08/28/25 10:15	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X535122	NMS	08/28/25 10:15	
EPA 200.7	Lithium	0.118	mg/L	0.040	0.025		X535122	NMS	08/28/25 10:15	
EPA 200.7	Magnesium	196	mg/L	0.500	0.090		X535122	NMS	08/28/25 10:15	
EPA 200.7	Manganese	0.159	mg/L	0.0080	0.0034		X535122	NMS	08/29/25 08:06	
EPA 200.7	Molybdenum	0.0257	mg/L	0.0080	0.0034		X535122	NMS	08/28/25 10:15	
EPA 200.7	Nickel	1.11	mg/L	0.0100	0.0048		X535122	NMS	08/28/25 10:15	
EPA 200.7	Potassium	11.6	mg/L	0.50	0.18		X535122	NMS	08/28/25 10:15	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X535122	NMS	08/29/25 08:06	
EPA 200.7	Sodium	181	mg/L	0.50	0.12		X535122	NMS	08/28/25 10:15	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X535122	NMS	08/28/25 10:15	E12
EPA 200.7	Zinc	17.5	mg/L	0.0100	0.0054		X535122	NMS	08/28/25 10:15	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X536062	JRR	09/05/25 11:06	
EPA 200.8	Arsenic	0.0969	mg/L	0.00100	0.00021		X536062	JRR	09/05/25 13:36	
EPA 200.8	Selenium	0.0119	mg/L	0.00100	0.00024		X536062	JRR	09/05/25 13:36	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X536062	JRR	09/05/25 11:06	
EPA 200.8	Uranium	1.04	mg/L	0.000100	0.000052		X536062	JRR	09/05/25 11:06	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X535039	SJN	08/26/25 16:52	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X535118	ORW	08/28/25 12:50	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X535006	JPM	08/26/25 09:47	
EPA 350.1	Ammonia as N	0.174	mg/L	0.030	0.013		X535089	ORW	08/27/25 17:33	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X535081	ORW	08/26/25 18:31	
SM 2310 B	Acidity to pH 8.3	1760	mg/L as CaCO3	10.0			X536050	MWD	09/03/25 11:15	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X535168	MWD	08/28/25 16:34	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X535168	MWD	08/28/25 16:34	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X535168	MWD	08/28/25 16:34	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X535168	MWD	08/28/25 16:34	
SM 2540 C	Total Diss. Solids	4950	mg/L	40			X534203	TJL	08/28/25 14:10	
SM 2540 D	Total Susp. Solids	20.0	mg/L	5.0			X535022	TJL	08/26/25 13:00	
SM 4500 H B	pH @22.4°C	4.0	pH Units				X535168	MWD	08/28/25 16:34	H5

SVL holds the following certifications:

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

Work order Report Page 8 of 16



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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: X5H0382 Reported: 09-Sep-25 14:35
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Client Sample ID: **GVMW-33**
SVL Sample ID: **X5H0382-04 (Ground Water)**

Sampled: 20-Aug-25 12:50
Received: 21-Aug-25
Sampled By: TR

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	5.80	mg/L	1.00	0.11	5	X534178	RS	08/21/25 18:41	D18
EPA 300.0	Fluoride	11.3	mg/L	0.500	0.085	5	X534178	RS	08/21/25 18:41	
EPA 300.0	Nitrate as N	3.46	mg/L	0.250	0.065	5	X534178	RS	08/21/25 18:41	D18
EPA 300.0	Nitrate+Nitrite as N	3.54	mg/L	0.500	0.220	5	X534178	RS	08/21/25 18:41	D18
EPA 300.0	Nitrite as N	< 0.250	mg/L	0.250	0.155	5	X534178	RS	08/21/25 18:41	D18
EPA 300.0	Sulfate as SO4	3660	mg/L	30.0	18.0	100	X534178	RS	08/21/25 18:56	

Cation/Anion Balance and TDS Ratios

Cation Sum: 76.9 meq/L	Anion Sum: 77.2 meq/L	C/A Balance: -0.24 %	Calculated TDS: 4469	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

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: **X5H0382**

Reported: 09-Sep-25 14:35

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	X535206	02-Sep-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X535206	02-Sep-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X535206	02-Sep-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X535122	28-Aug-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X535122	28-Aug-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X535122	28-Aug-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X535122	28-Aug-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X535122	28-Aug-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X535122	28-Aug-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X535122	28-Aug-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X535122	28-Aug-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X535122	28-Aug-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X535122	28-Aug-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X535122	28-Aug-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X535122	28-Aug-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X535122	28-Aug-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X535122	28-Aug-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X535122	28-Aug-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X535122	28-Aug-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X535122	28-Aug-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X535122	28-Aug-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X535122	28-Aug-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X535122	28-Aug-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X535122	28-Aug-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X536062	05-Sep-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X536062	05-Sep-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X536062	05-Sep-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X536062	05-Sep-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X536062	05-Sep-25	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X535039	26-Aug-25	
Classical Chemistry Parameters								
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X535118	28-Aug-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X535006	26-Aug-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X535089	27-Aug-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X535081	26-Aug-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X536050	03-Sep-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X535168	28-Aug-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X535168	28-Aug-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X535168	28-Aug-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X535168	28-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X534203	28-Aug-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X535022	26-Aug-25	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X534178	21-Aug-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X534178	21-Aug-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X534178	21-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X534178	21-Aug-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X534178	21-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X534178	21-Aug-25	

SVL holds the following certifications:

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

Work order Report Page 10 of 16



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: **X5H0382**

Reported: 09-Sep-25 14:35

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Calcium	mg/L	21.0	20.0	105	85 - 115	X535206	02-Sep-25	
EPA 200.7	Magnesium	mg/L	21.3	20.0	107	85 - 115	X535206	02-Sep-25	
EPA 200.7	Potassium	mg/L	21.2	20.0	106	85 - 115	X535206	02-Sep-25	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	1.01	1.00	101	85 - 115	X535122	28-Aug-25	
EPA 200.7	Barium	mg/L	1.03	1.00	103	85 - 115	X535122	28-Aug-25	
EPA 200.7	Beryllium	mg/L	1.07	1.00	107	85 - 115	X535122	28-Aug-25	
EPA 200.7	Boron	mg/L	1.07	1.00	107	85 - 115	X535122	28-Aug-25	
EPA 200.7	Cadmium	mg/L	1.01	1.00	101	85 - 115	X535122	28-Aug-25	
EPA 200.7	Calcium	mg/L	20.7	20.0	104	85 - 115	X535122	28-Aug-25	
EPA 200.7	Chromium	mg/L	1.05	1.00	105	85 - 115	X535122	28-Aug-25	
EPA 200.7	Cobalt	mg/L	0.996	1.00	99.6	85 - 115	X535122	28-Aug-25	
EPA 200.7	Copper	mg/L	1.01	1.00	101	85 - 115	X535122	28-Aug-25	
EPA 200.7	Iron	mg/L	10.5	10.0	105	85 - 115	X535122	28-Aug-25	
EPA 200.7	Lead	mg/L	1.01	1.00	101	85 - 115	X535122	28-Aug-25	
EPA 200.7	Lithium	mg/L	0.994	1.00	99.4	85 - 115	X535122	28-Aug-25	
EPA 200.7	Magnesium	mg/L	20.2	20.0	101	85 - 115	X535122	28-Aug-25	
EPA 200.7	Manganese	mg/L	1.04	1.00	104	85 - 115	X535122	28-Aug-25	
EPA 200.7	Molybdenum	mg/L	1.06	1.00	106	85 - 115	X535122	28-Aug-25	
EPA 200.7	Nickel	mg/L	1.00	1.00	100	85 - 115	X535122	28-Aug-25	
EPA 200.7	Potassium	mg/L	21.8	20.0	109	85 - 115	X535122	28-Aug-25	
EPA 200.7	Silver	mg/L	0.0525	0.0500	105	85 - 115	X535122	28-Aug-25	
EPA 200.7	Sodium	mg/L	19.6	19.0	103	85 - 115	X535122	28-Aug-25	
EPA 200.7	Vanadium	mg/L	1.06	1.00	106	85 - 115	X535122	28-Aug-25	
EPA 200.7	Zinc	mg/L	1.05	1.00	105	85 - 115	X535122	28-Aug-25	
EPA 200.8	Antimony	mg/L	0.0217	0.0250	87.0	85 - 115	X536062	05-Sep-25	
EPA 200.8	Antimony	mg/L	0.0222	0.0250	89.0	85 - 115	X536062	05-Sep-25	
EPA 200.8	Arsenic	mg/L	0.0239	0.0250	95.8	85 - 115	X536062	05-Sep-25	
EPA 200.8	Selenium	mg/L	0.0215	0.0250	86.2	85 - 115	X536062	05-Sep-25	
EPA 200.8	Thallium	mg/L	0.0233	0.0250	93.3	85 - 115	X536062	05-Sep-25	
EPA 200.8	Uranium	mg/L	0.0274	0.0250	109	85 - 115	X536062	05-Sep-25	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00207	0.00200	104	85 - 115	X535039	26-Aug-25	
Classical Chemistry Parameters									
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.101	0.100	101	90 - 110	X535118	28-Aug-25	
EPA 335.4	Cyanide (total)	mg/L	0.0959	0.100	95.9	90 - 110	X535006	26-Aug-25	
EPA 350.1	Ammonia as N	mg/L	0.979	1.00	97.9	90 - 110	X535089	27-Aug-25	
OIA 1677	Cyanide (WAD)	mg/L	0.101	0.100	101	90 - 110	X535081	26-Aug-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1200	1180	102	95.4 - 104	X536050	03-Sep-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.0	9.93	101	94 - 106	X535168	28-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	99.9	99.3	101	94 - 106	X535168	28-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	400	397	101	94 - 106	X535168	28-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	238	250	95.2	85 - 115	X534203	28-Aug-25	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X535022	26-Aug-25	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.02	3.00	101	90 - 110	X534178	21-Aug-25	
EPA 300.0	Fluoride	mg/L	1.98	2.00	98.9	90 - 110	X534178	21-Aug-25	
EPA 300.0	Nitrate as N	mg/L	2.01	2.00	100	90 - 110	X534178	21-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.54	4.50	101	90 - 110	X534178	21-Aug-25	
EPA 300.0	Nitrite as N	mg/L	2.53	2.50	101	90 - 110	X534178	21-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	10.5	10.0	105	90 - 110	X534178	21-Aug-25	

SVL holds the following certifications:

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

Work order Report Page 11 of 16

**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: **X5H0382**

Reported: 09-Sep-25 14:35

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	26600	26600	0.1	20	X536050 - X5H0382-01	03-Sep-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	557	557	0.0	20	X535168 - X5H0440-01	28-Aug-25	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	557	557	0.0	20	X535168 - X5H0440-01	28-Aug-25	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X535168 - X5H0440-01	28-Aug-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X535168 - X5H0440-01	28-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	141	143	1.4	10	X534203 - X5H0449-12	28-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	709	680	4.2	10	X534203 - X5H0449-11	28-Aug-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X535022 - X5H0388-01	26-Aug-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X535022 - X5H0388-02	26-Aug-25	
SM 4500 H B	pH @22.1°C	pH Units	7.1	7.0	0.7	20	X535168 - X5H0440-01	28-Aug-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	409	406	20.0	0.30R>S	70 - 130	X535206 - X5H0382-03	02-Sep-25	M3
EPA 200.7	Calcium	mg/L	548	523	20.0	125	70 - 130	X535206 - X5H0330-01	02-Sep-25	
EPA 200.7	Magnesium	mg/L	50.8	30.0	20.0	104	70 - 130	X535206 - X5H0330-01	02-Sep-25	
EPA 200.7	Magnesium	mg/L	356	379	20.0	0.30R>S	70 - 130	X535206 - X5H0382-03	02-Sep-25	M3
EPA 200.7	Potassium	mg/L	57.2	36.4	20.0	104	70 - 130	X535206 - X5H0330-01	02-Sep-25	
EPA 200.7	Potassium	mg/L	18.4	<0.50	20.0	92.1	70 - 130	X535206 - X5H0382-03	02-Sep-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.29	0.144	1.00	115	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Aluminum	mg/L	1060	1060	1.00	0.30R>S	70 - 130	X535122 - X5H0382-03	29-Aug-25	M4
EPA 200.7	Barium	mg/L	0.997	0.0124	1.00	98.5	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Barium	mg/L	1.14	<0.0020	1.00	114	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Beryllium	mg/L	1.86	0.763	1.00	110	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Beryllium	mg/L	1.05	<0.00200	1.00	105	70 - 130	X535122 - X5H0384-01	29-Aug-25	
EPA 200.7	Boron	mg/L	1.13	<0.0400	1.00	110	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Boron	mg/L	1.17	<0.0400	1.00	117	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Cadmium	mg/L	3.02	2.07	1.00	95.4	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Cadmium	mg/L	1.11	<0.0020	1.00	111	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Calcium	mg/L	475	453	20.0	111	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Calcium	mg/L	23.3	0.616	20.0	113	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Chromium	mg/L	1.27	0.248	1.00	102	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Chromium	mg/L	1.16	<0.0060	1.00	116	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Cobalt	mg/L	2.95	1.99	1.00	95.7	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Cobalt	mg/L	1.10	<0.0060	1.00	110	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Copper	mg/L	6.34	5.15	1.00	119	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Copper	mg/L	1.12	0.0133	1.00	110	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Iron	mg/L	69.2	58.9	10.0	103	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Iron	mg/L	11.5	<0.100	10.0	115	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Lead	mg/L	0.988	<0.0075	1.00	98.8	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Lead	mg/L	1.10	<0.0075	1.00	110	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Lithium	mg/L	1.81	0.381	1.00	142	70 - 130	X535122 - X5H0382-03	28-Aug-25	M1
EPA 200.7	Lithium	mg/L	1.14	<0.040	1.00	114	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Magnesium	mg/L	438	419	20.0	91.7	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Magnesium	mg/L	22.7	<0.500	20.0	113	70 - 130	X535122 - X5H0384-01	28-Aug-25	

SVL holds the following certifications:

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

Work order Report Page 12 of 16



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: **X5H0382**

Reported: 09-Sep-25 14:35

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	Manganese	mg/L	1.20	0.0544	1.00	115	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Manganese	mg/L	308	309	1.00	0.30R>S	70 - 130	X535122 - X5H0382-03	29-Aug-25	M4
EPA 200.7	Molybdenum	mg/L	1.08	0.0422	1.00	104	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Molybdenum	mg/L	1.05	<0.0080	1.00	105	70 - 130	X535122 - X5H0384-01	29-Aug-25	
EPA 200.7	Nickel	mg/L	4.16	3.20	1.00	96.3	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Nickel	mg/L	1.11	0.0102	1.00	110	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Potassium	mg/L	21.7	<0.50	20.0	109	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Potassium	mg/L	23.9	0.54	20.0	117	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Silver	mg/L	0.0576	<0.0050	0.0500	115	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Silver	mg/L	0.0402	<0.0050	0.0500	80.4	70 - 130	X535122 - X5H0382-03	29-Aug-25	
EPA 200.7	Sodium	mg/L	56.2	35.6	19.0	109	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Sodium	mg/L	52.4	31.2	19.0	111	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Vanadium	mg/L	0.204	<0.0050	1.00	20.4	70 - 130	X535122 - X5H0382-03	28-Aug-25	E12,M2
EPA 200.7	Vanadium	mg/L	1.16	<0.0050	1.00	116	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Zinc	mg/L	1.20	0.0275	1.00	117	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Zinc	mg/L	85.1	83.8	1.00	0.30R>S	70 - 130	X535122 - X5H0382-03	29-Aug-25	M4
EPA 200.8	Antimony	mg/L	0.0241	<0.00500	0.0250	96.6	70 - 130	X536062 - X5H0401-01	05-Sep-25	D17
EPA 200.8	Antimony	mg/L	0.0277	<0.00100	0.0250	111	70 - 130	X536062 - X5H0514-01	09-Sep-25	
EPA 200.8	Arsenic	mg/L	0.184	0.159	0.0250	98.0	70 - 130	X536062 - X5H0401-01	05-Sep-25	D17
EPA 200.8	Arsenic	mg/L	0.0273	<0.00100	0.0250	106	70 - 130	X536062 - X5H0514-01	05-Sep-25	
EPA 200.8	Selenium	mg/L	0.0343	0.0131	0.0250	84.9	70 - 130	X536062 - X5H0401-01	05-Sep-25	D17
EPA 200.8	Selenium	mg/L	0.0274	<0.00100	0.0250	106	70 - 130	X536062 - X5H0514-01	05-Sep-25	
EPA 200.8	Thallium	mg/L	0.0244	<0.00100	0.0250	97.7	70 - 130	X536062 - X5H0401-01	05-Sep-25	D17
EPA 200.8	Thallium	mg/L	0.0250	<0.000200	0.0250	99.8	70 - 130	X536062 - X5H0514-01	05-Sep-25	
EPA 200.8	Uranium	mg/L	1.52	1.50	0.0250	74.4	70 - 130	X536062 - X5H0401-01	09-Sep-25	D17
EPA 200.8	Uranium	mg/L	0.0307	0.00218	0.0250	114	70 - 130	X536062 - X5H0514-01	09-Sep-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.385	0.354	0.00200	0.30R>S	70 - 130	X535039 - X5H0246-01	26-Aug-25	M4
EPA 245.1	Mercury	mg/L	0.00206	<0.000200	0.00200	103	70 - 130	X535039 - X5H0407-01	26-Aug-25	

Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.111	<0.0050	0.100	111	79 - 121	X535118 - X5H0338-02	28-Aug-25	
EPA 335.4	Cyanide (total)	mg/L	0.103	<0.0050	0.100	103	90 - 110	X535006 - X5H0338-03	26-Aug-25	
EPA 335.4	Cyanide (total)	mg/L	0.103	<0.0050	0.100	103	90 - 110	X535006 - X5H0338-02	26-Aug-25	
EPA 350.1	Ammonia as N	mg/L	1.04	<0.030	1.00	104	90 - 110	X535089 - X5H0380-02	27-Aug-25	
EPA 350.1	Ammonia as N	mg/L	1.12	<0.030	1.00	110	90 - 110	X535089 - X5H0382-03	27-Aug-25	
OIA 1677	Cyanide (WAD)	mg/L	0.0972	<0.0050	0.100	97.2	82 - 118	X535081 - X5H0382-04	26-Aug-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	6.36	3.24	3.00	104	90 - 110	X534178 - X5H0337-01	21-Aug-25	
EPA 300.0	Chloride	mg/L	6.39	3.28	3.00	103	90 - 110	X534178 - X5H0337-02	21-Aug-25	
EPA 300.0	Fluoride	mg/L	2.06	<0.100	2.00	101	90 - 110	X534178 - X5H0337-01	21-Aug-25	
EPA 300.0	Fluoride	mg/L	2.07	<0.100	2.00	101	90 - 110	X534178 - X5H0337-02	21-Aug-25	
EPA 300.0	Nitrate as N	mg/L	2.13	0.090	2.00	102	90 - 110	X534178 - X5H0337-01	21-Aug-25	
EPA 300.0	Nitrate as N	mg/L	2.15	0.103	2.00	102	90 - 110	X534178 - X5H0337-02	21-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.21	0.100	4.00	103	90 - 110	X534178 - X5H0337-01	21-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.27	0.111	4.00	104	90 - 110	X534178 - X5H0337-02	21-Aug-25	
EPA 300.0	Nitrite as N	mg/L	2.08	<0.050	2.00	104	90 - 110	X534178 - X5H0337-01	21-Aug-25	
EPA 300.0	Nitrite as N	mg/L	2.12	<0.050	2.00	106	90 - 110	X534178 - X5H0337-02	21-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	12.9	2.45	10.0	104	90 - 110	X534178 - X5H0337-01	21-Aug-25	

SVL holds the following certifications:

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

Work order Report Page 13 of 16



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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: **X5H0382**
Reported: 09-Sep-25 14:35

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
Anions by Ion Chromatography (Continued)										
EPA 300.0	Sulfate as SO4	mg/L	13.2	2.55	10.0	107	90 - 110	X534178 - X5H0337-02	21-Aug-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	535	548	20.0	2.0	20	0.30R>S	X535206 - X5H0330-01	M4
EPA 200.7	Magnesium	mg/L	51.7	50.8	20.0	1.7	20	108	X535206 - X5H0330-01	
EPA 200.7	Potassium	mg/L	57.4	57.2	20.0	0.2	20	105	X535206 - X5H0330-01	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1080	1060	1.00	2.7	20	0.30R>S	X535122 - X5H0382-03	M4
EPA 200.7	Barium	mg/L	0.993	0.997	1.00	0.5	20	98.0	X535122 - X5H0382-03	
EPA 200.7	Beryllium	mg/L	1.87	1.86	1.00	0.7	20	111	X535122 - X5H0382-03	
EPA 200.7	Boron	mg/L	1.15	1.13	1.00	1.4	20	112	X535122 - X5H0382-03	
EPA 200.7	Cadmium	mg/L	3.03	3.02	1.00	0.3	20	96.4	X535122 - X5H0382-03	
EPA 200.7	Calcium	mg/L	468	475	20.0	1.4	20	79.0	X535122 - X5H0382-03	
EPA 200.7	Chromium	mg/L	1.27	1.27	1.00	0.6	20	103	X535122 - X5H0382-03	
EPA 200.7	Cobalt	mg/L	2.95	2.95	1.00	0.2	20	96.4	X535122 - X5H0382-03	
EPA 200.7	Copper	mg/L	6.32	6.34	1.00	0.2	20	117	X535122 - X5H0382-03	
EPA 200.7	Iron	mg/L	68.4	69.2	10.0	1.3	20	94.7	X535122 - X5H0382-03	
EPA 200.7	Lead	mg/L	0.999	0.988	1.00	1.1	20	99.9	X535122 - X5H0382-03	
EPA 200.7	Lithium	mg/L	1.81	1.81	1.00	0.3	20	143	X535122 - X5H0382-03	M1
EPA 200.7	Magnesium	mg/L	431	438	20.0	1.6	20	0.30R>S	X535122 - X5H0382-03	M3
EPA 200.7	Manganese	mg/L	318	308	1.00	2.9	20	0.30R>S	X535122 - X5H0382-03	M4
EPA 200.7	Molybdenum	mg/L	1.09	1.08	1.00	0.5	20	104	X535122 - X5H0382-03	
EPA 200.7	Nickel	mg/L	4.17	4.16	1.00	0.1	20	96.9	X535122 - X5H0382-03	
EPA 200.7	Potassium	mg/L	21.7	21.7	20.0	0.0	20	109	X535122 - X5H0382-03	
EPA 200.7	Silver	mg/L	0.0416	0.0402	0.0500	3.5	20	83.3	X535122 - X5H0382-03	
EPA 200.7	Sodium	mg/L	55.7	56.2	19.0	1.0	20	106	X535122 - X5H0382-03	
EPA 200.7	Vanadium	mg/L	0.211	0.204	1.00	3.0	20	21.1	X535122 - X5H0382-03	E12,M2
EPA 200.7	Zinc	mg/L	87.5	85.1	1.00	2.8	20	0.30R>S	X535122 - X5H0382-03	M4
EPA 200.8	Antimony	mg/L	0.0244	0.0241	0.0250	1.1	20	97.6	X536062 - X5H0401-01	D17
EPA 200.8	Arsenic	mg/L	0.181	0.184	0.0250	1.8	20	84.8	X536062 - X5H0401-01	D17
EPA 200.8	Selenium	mg/L	0.0340	0.0343	0.0250	1.1	20	83.4	X536062 - X5H0401-01	D17
EPA 200.8	Thallium	mg/L	0.0238	0.0244	0.0250	2.6	20	95.2	X536062 - X5H0401-01	D17
EPA 200.8	Uranium	mg/L	1.59	1.52	0.0250	4.7	20	0.30R>S	X536062 - X5H0401-01	D17,M4

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.373	0.385	0.00200	3.2	20	0.30R>S	X535039 - X5H0246-01	M4
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.113	0.111	0.100	1.6	11	113	X535118 - X5H0338-02	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.103	0.100	0.1	20	103	X535006 - X5H0338-03	
EPA 350.1	Ammonia as N	mg/L	1.03	1.04	1.00	0.8	20	103	X535089 - X5H0380-02	
OIA 1677	Cyanide (WAD)	mg/L	0.0973	0.0972	0.100	0.1	11	97.3	X535081 - X5H0382-04	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	6.33	6.36	3.00	0.3	20	103	X534178 - X5H0337-01	
EPA 300.0	Fluoride	mg/L	2.08	2.06	2.00	1.2	20	102	X534178 - X5H0337-01	
EPA 300.0	Nitrate as N	mg/L	2.15	2.13	2.00	0.8	20	103	X534178 - X5H0337-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.21	4.21	4.00	0.0	20	103	X534178 - X5H0337-01	
EPA 300.0	Nitrite as N	mg/L	2.06	2.08	2.00	0.8	20	103	X534178 - X5H0337-01	

SVL holds the following certifications:

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

Work order Report Page 14 of 16



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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: X5H0382				
Cripple Creek, CO 80813					Reported: 09-Sep-25 14:35				

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
Anions by Ion Chromatography (Continued)										
EPA 300.0	Sulfate as SO4	mg/L	13.2	12.9	10.0	2.3	20	107	X534178 - X5H0337-01	



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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: **X5H0382**

Reported: 09-Sep-25 14:35

Notes and Definitions

D11	Due to sample color, a sample dilution was performed to minimize spectral interference.
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.
D20	Due to sample pH, sample diluted 10X prior to analysis.
D4	Reporting Level (RL) adjusted to reflect sample amount received and analyzed.
E11	Sample exceeds method-specified limit for solids content.
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.
Q12	Sample was received and analyzed with pH <10.
Q5	Sample was received with inadequate preservation, but preserved by the laboratory.
Q5C	After two pH adjustments, the method-specified pH was not achieved.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable



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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: **X5H0384**

Reported: 09-Sep-25 14:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
RB-0820	X5H0384-01	Ground Water	20-Aug-25 13:50	TR	21-Aug-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: X5H0384

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: **X5H0384**

Reported: 09-Sep-25 14:48

Client Sample ID: **RB-0820**

Sampled: 20-Aug-25 13:50

Received: 21-Aug-25

Sampled By: TR

SVL Sample ID: **X5H0384-01 (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	0.820	mg/L	0.100	0.069		X535206	MAC	09/02/25 10:21	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X535206	MAC	09/02/25 10:21	
EPA 200.7	Potassium	0.53	mg/L	0.50	0.18		X535206	MAC	09/02/25 10:21	
SM 2340 B	Hardness (as CaCO3)	< 2.31	mg/L	2.31	0.543		N/A		08/28/25 10:25	

Metals (Dissolved)

EPA 200.7	Aluminum	0.144	mg/L	0.080	0.054		X535122	NMS	08/28/25 10:25	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X535122	NMS	08/28/25 10:25	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X535122	NMS	08/29/25 07:06	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X535122	NMS	08/28/25 10:25	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X535122	NMS	08/28/25 10:25	
EPA 200.7	Calcium	0.616	mg/L	0.100	0.069		X535122	NMS	08/28/25 10:25	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X535122	NMS	08/28/25 10:25	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X535122	NMS	08/28/25 10:25	
EPA 200.7	Copper	0.0133	mg/L	0.0100	0.0027		X535122	NMS	08/28/25 10:25	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X535122	NMS	08/28/25 10:25	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X535122	NMS	08/28/25 10:25	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X535122	NMS	08/28/25 10:25	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X535122	NMS	08/28/25 10:25	
EPA 200.7	Manganese	0.0544	mg/L	0.0080	0.0034		X535122	NMS	08/28/25 10:25	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X535122	NMS	08/29/25 07:06	
EPA 200.7	Nickel	0.0102	mg/L	0.0100	0.0048		X535122	NMS	08/28/25 10:25	
EPA 200.7	Potassium	0.54	mg/L	0.50	0.18		X535122	NMS	08/28/25 10:25	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X535122	NMS	08/28/25 10:25	
EPA 200.7	Sodium	31.2	mg/L	0.50	0.12		X535122	NMS	08/28/25 10:25	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X535122	NMS	08/28/25 10:25	
EPA 200.7	Zinc	0.0275	mg/L	0.0100	0.0054		X535122	NMS	08/28/25 10:25	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X536062	JRR	09/05/25 11:09	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X536062	JRR	09/05/25 13:38	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X536062	JRR	09/05/25 13:38	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X536062	JRR	09/05/25 11:09	
EPA 200.8	Uranium	0.00140	mg/L	0.000100	0.000052		X536062	JRR	09/05/25 11:09	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X535039	SJN	08/26/25 16:55	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X535118	ORW	08/28/25 12:53	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X535006	JPM	08/26/25 09:49	
EPA 350.1	Ammonia as N	0.040	mg/L	0.030	0.013		X535089	ORW	08/27/25 17:37	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X535081	ORW	08/26/25 18:34	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X536050	MWD	09/03/25 11:15	
SM 2320 B	Total Alkalinity	6.5	mg/L as CaCO3	1.0			X535052	MWD	08/27/25 13:46	
SM 2320 B	Bicarbonate	6.5	mg/L as CaCO3	1.0			X535052	MWD	08/27/25 13:46	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X535052	MWD	08/27/25 13:46	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X535052	MWD	08/27/25 13:46	
SM 2540 C	Total Diss. Solids	110	mg/L	10			X534199	TJL	08/25/25 13:55	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X534201	TJL	08/26/25 14:40	
SM 4500 H B	pH @21.8°C	6.2	pH Units				X535052	MWD	08/27/25 13:46	H5

SVL holds the following certifications:

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

Work order Report Page 2 of 10



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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: X5H0384 Reported: 09-Sep-25 14:48
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Client Sample ID: **RB-0820**
SVL Sample ID: **X5H0384-01 (Ground Water)**

Sampled: 20-Aug-25 13:50
Received: 21-Aug-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	31.8	mg/L	2.00	0.22	10	X534178	RS	08/22/25 10:32	
EPA 300.0	Fluoride	4.80	mg/L	0.100	0.017		X534178	RS	08/21/25 21:32	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X534178	RS	08/21/25 21:32	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X534178	RS	08/21/25 21:32	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X534178	RS	08/21/25 21:32	
EPA 300.0	Sulfate as SO4	3.48	mg/L	0.30	0.18		X534178	RS	08/21/25 21:32	

Cation/Anion Balance and TDS Ratios

Cation Sum: 1.44 meq/L	Anion Sum: 1.36 meq/L	C/A Balance: 2.91 %	Calculated TDS: 76	TDS/cTDS: 1.44
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This data has been reviewed for accuracy and has been authorized for release.

Kristi A. Groth

Kristi A. Groth
Project Manager



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net**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: **X5H0384**

Reported: 09-Sep-25 14:48

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	X535206	02-Sep-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X535206	02-Sep-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X535206	02-Sep-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X535122	28-Aug-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X535122	28-Aug-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X535122	28-Aug-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X535122	28-Aug-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X535122	28-Aug-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X535122	28-Aug-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X535122	28-Aug-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X535122	28-Aug-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X535122	28-Aug-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X535122	28-Aug-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X535122	28-Aug-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X535122	28-Aug-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X535122	28-Aug-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X535122	28-Aug-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X535122	28-Aug-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X535122	28-Aug-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X535122	28-Aug-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X535122	28-Aug-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X535122	28-Aug-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X535122	28-Aug-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X535122	28-Aug-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X536062	05-Sep-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X536062	05-Sep-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X536062	05-Sep-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X536062	05-Sep-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X536062	05-Sep-25	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X535039	26-Aug-25	
Classical Chemistry Parameters								
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X535118	28-Aug-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X535006	26-Aug-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X535089	27-Aug-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X535081	26-Aug-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X536050	03-Sep-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X535052	27-Aug-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X535052	27-Aug-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X535052	27-Aug-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X535052	27-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X534199	25-Aug-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X534201	26-Aug-25	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X534178	21-Aug-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X534178	21-Aug-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X534178	21-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X534178	21-Aug-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X534178	21-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X534178	21-Aug-25	

SVL holds the following certifications:

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

Work order Report Page 4 of 10



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: **X5H0384**

Reported: 09-Sep-25 14:48

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	21.0	20.0	105	85 - 115	X535206	02-Sep-25	
EPA 200.7	Magnesium	mg/L	21.3	20.0	107	85 - 115	X535206	02-Sep-25	
EPA 200.7	Potassium	mg/L	21.2	20.0	106	85 - 115	X535206	02-Sep-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.01	1.00	101	85 - 115	X535122	28-Aug-25	
EPA 200.7	Barium	mg/L	1.03	1.00	103	85 - 115	X535122	28-Aug-25	
EPA 200.7	Beryllium	mg/L	1.07	1.00	107	85 - 115	X535122	28-Aug-25	
EPA 200.7	Boron	mg/L	1.07	1.00	107	85 - 115	X535122	28-Aug-25	
EPA 200.7	Cadmium	mg/L	1.01	1.00	101	85 - 115	X535122	28-Aug-25	
EPA 200.7	Calcium	mg/L	20.7	20.0	104	85 - 115	X535122	28-Aug-25	
EPA 200.7	Chromium	mg/L	1.05	1.00	105	85 - 115	X535122	28-Aug-25	
EPA 200.7	Cobalt	mg/L	0.996	1.00	99.6	85 - 115	X535122	28-Aug-25	
EPA 200.7	Copper	mg/L	1.01	1.00	101	85 - 115	X535122	28-Aug-25	
EPA 200.7	Iron	mg/L	10.5	10.0	105	85 - 115	X535122	28-Aug-25	
EPA 200.7	Lead	mg/L	1.01	1.00	101	85 - 115	X535122	28-Aug-25	
EPA 200.7	Lithium	mg/L	0.994	1.00	99.4	85 - 115	X535122	28-Aug-25	
EPA 200.7	Magnesium	mg/L	20.2	20.0	101	85 - 115	X535122	28-Aug-25	
EPA 200.7	Manganese	mg/L	1.04	1.00	104	85 - 115	X535122	28-Aug-25	
EPA 200.7	Molybdenum	mg/L	1.06	1.00	106	85 - 115	X535122	28-Aug-25	
EPA 200.7	Nickel	mg/L	1.00	1.00	100	85 - 115	X535122	28-Aug-25	
EPA 200.7	Potassium	mg/L	21.8	20.0	109	85 - 115	X535122	28-Aug-25	
EPA 200.7	Silver	mg/L	0.0525	0.0500	105	85 - 115	X535122	28-Aug-25	
EPA 200.7	Sodium	mg/L	19.6	19.0	103	85 - 115	X535122	28-Aug-25	
EPA 200.7	Vanadium	mg/L	1.06	1.00	106	85 - 115	X535122	28-Aug-25	
EPA 200.7	Zinc	mg/L	1.05	1.00	105	85 - 115	X535122	28-Aug-25	
EPA 200.8	Antimony	mg/L	0.0217	0.0250	87.0	85 - 115	X536062	05-Sep-25	
EPA 200.8	Antimony	mg/L	0.0222	0.0250	89.0	85 - 115	X536062	05-Sep-25	
EPA 200.8	Arsenic	mg/L	0.0239	0.0250	95.8	85 - 115	X536062	05-Sep-25	
EPA 200.8	Selenium	mg/L	0.0215	0.0250	86.2	85 - 115	X536062	05-Sep-25	
EPA 200.8	Thallium	mg/L	0.0233	0.0250	93.3	85 - 115	X536062	05-Sep-25	
EPA 200.8	Uranium	mg/L	0.0274	0.0250	109	85 - 115	X536062	05-Sep-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00207	0.00200	104	85 - 115	X535039	26-Aug-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.101	0.100	101	90 - 110	X535118	28-Aug-25	
EPA 335.4	Cyanide (total)	mg/L	0.0959	0.100	95.9	90 - 110	X535006	26-Aug-25	
EPA 350.1	Ammonia as N	mg/L	0.979	1.00	97.9	90 - 110	X535089	27-Aug-25	
OIA 1677	Cyanide (WAD)	mg/L	0.101	0.100	101	90 - 110	X535081	26-Aug-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1200	1180	102	95.4 - 104	X536050	03-Sep-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.0	9.93	101	94 - 106	X535052	27-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	98.8	99.3	99.5	94 - 106	X535052	27-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	246	250	98.4	85 - 115	X534199	25-Aug-25	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X534201	26-Aug-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.02	3.00	101	90 - 110	X534178	21-Aug-25	
EPA 300.0	Fluoride	mg/L	1.98	2.00	98.9	90 - 110	X534178	21-Aug-25	
EPA 300.0	Nitrate as N	mg/L	2.01	2.00	100	90 - 110	X534178	21-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.54	4.50	101	90 - 110	X534178	21-Aug-25	
EPA 300.0	Nitrite as N	mg/L	2.53	2.50	101	90 - 110	X534178	21-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	10.5	10.0	105	90 - 110	X534178	21-Aug-25	

SVL holds the following certifications:

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

Work order Report Page 5 of 10

**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: **X5H0384**

Reported: 09-Sep-25 14:48

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	26600	26600	0.1	20	X536050 - X5H0382-01	03-Sep-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	107	107	0.1	20	X535052 - X5H0330-02	27-Aug-25	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	107	107	0.1	20	X535052 - X5H0330-02	27-Aug-25	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X535052 - X5H0330-02	27-Aug-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X535052 - X5H0330-02	27-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	207	212	2.4	10	X534199 - X5H0381-02	25-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	220	222	0.9	10	X534199 - X5H0383-02	25-Aug-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X534201 - X5H0383-02	26-Aug-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X534201 - X5H0381-02	26-Aug-25	
SM 4500 H B	pH @17.5°C	pH Units	6.9	7.0	1.3	20	X535052 - X5H0330-02	27-Aug-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	409	406	20.0	0.30R>S	70 - 130	X535206 - X5H0382-03	02-Sep-25	M3
EPA 200.7	Calcium	mg/L	548	523	20.0	125	70 - 130	X535206 - X5H0330-01	02-Sep-25	
EPA 200.7	Magnesium	mg/L	50.8	30.0	20.0	104	70 - 130	X535206 - X5H0330-01	02-Sep-25	
EPA 200.7	Magnesium	mg/L	356	379	20.0	0.30R>S	70 - 130	X535206 - X5H0382-03	02-Sep-25	M3
EPA 200.7	Potassium	mg/L	57.2	36.4	20.0	104	70 - 130	X535206 - X5H0330-01	02-Sep-25	
EPA 200.7	Potassium	mg/L	18.4	<0.50	20.0	92.1	70 - 130	X535206 - X5H0382-03	02-Sep-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.29	0.144	1.00	115	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Aluminum	mg/L	1060	1060	1.00	0.30R>S	70 - 130	X535122 - X5H0382-03	29-Aug-25	M4
EPA 200.7	Barium	mg/L	0.997	0.0124	1.00	98.5	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Barium	mg/L	1.14	<0.0020	1.00	114	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Beryllium	mg/L	1.86	0.763	1.00	110	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Beryllium	mg/L	1.05	<0.00200	1.00	105	70 - 130	X535122 - X5H0384-01	29-Aug-25	
EPA 200.7	Boron	mg/L	1.13	<0.0400	1.00	110	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Boron	mg/L	1.17	<0.0400	1.00	117	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Cadmium	mg/L	3.02	2.07	1.00	95.4	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Cadmium	mg/L	1.11	<0.0020	1.00	111	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Calcium	mg/L	475	453	20.0	111	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Calcium	mg/L	23.3	0.616	20.0	113	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Chromium	mg/L	1.27	0.248	1.00	102	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Chromium	mg/L	1.16	<0.0060	1.00	116	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Cobalt	mg/L	2.95	1.99	1.00	95.7	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Cobalt	mg/L	1.10	<0.0060	1.00	110	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Copper	mg/L	6.34	5.15	1.00	119	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Copper	mg/L	1.12	0.0133	1.00	110	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Iron	mg/L	69.2	58.9	10.0	103	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Iron	mg/L	11.5	<0.100	10.0	115	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Lead	mg/L	0.988	<0.0075	1.00	98.8	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Lead	mg/L	1.10	<0.0075	1.00	110	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Lithium	mg/L	1.81	0.381	1.00	142	70 - 130	X535122 - X5H0382-03	28-Aug-25	M1
EPA 200.7	Lithium	mg/L	1.14	<0.040	1.00	114	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Magnesium	mg/L	438	419	20.0	91.7	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Magnesium	mg/L	22.7	<0.500	20.0	113	70 - 130	X535122 - X5H0384-01	28-Aug-25	

SVL holds the following certifications:

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

Work order Report Page 6 of 10

**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: **X5H0384**

Reported: 09-Sep-25 14:48

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	1.20	0.0544	1.00	115	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Manganese	mg/L	308	309	1.00	0.30R>S	70 - 130	X535122 - X5H0382-03	29-Aug-25	M4
EPA 200.7	Molybdenum	mg/L	1.08	0.0422	1.00	104	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Molybdenum	mg/L	1.05	<0.0080	1.00	105	70 - 130	X535122 - X5H0384-01	29-Aug-25	
EPA 200.7	Nickel	mg/L	4.16	3.20	1.00	96.3	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Nickel	mg/L	1.11	0.0102	1.00	110	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Potassium	mg/L	21.7	<0.50	20.0	109	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Potassium	mg/L	23.9	0.54	20.0	117	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Silver	mg/L	0.0576	<0.0050	0.0500	115	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Silver	mg/L	0.0402	<0.0050	0.0500	80.4	70 - 130	X535122 - X5H0382-03	29-Aug-25	
EPA 200.7	Sodium	mg/L	56.2	35.6	19.0	109	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Sodium	mg/L	52.4	31.2	19.0	111	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Vanadium	mg/L	0.204	<0.0050	1.00	20.4	70 - 130	X535122 - X5H0382-03	28-Aug-25	E12,M2
EPA 200.7	Vanadium	mg/L	1.16	<0.0050	1.00	116	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Zinc	mg/L	1.20	0.0275	1.00	117	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Zinc	mg/L	85.1	83.8	1.00	0.30R>S	70 - 130	X535122 - X5H0382-03	29-Aug-25	M4
EPA 200.8	Antimony	mg/L	0.0241	<0.00500	0.0250	96.6	70 - 130	X536062 - X5H0401-01	05-Sep-25	D17
EPA 200.8	Antimony	mg/L	0.0277	<0.00100	0.0250	111	70 - 130	X536062 - X5H0514-01	09-Sep-25	
EPA 200.8	Arsenic	mg/L	0.184	0.159	0.0250	98.0	70 - 130	X536062 - X5H0401-01	05-Sep-25	D17
EPA 200.8	Arsenic	mg/L	0.0273	<0.00100	0.0250	106	70 - 130	X536062 - X5H0514-01	05-Sep-25	
EPA 200.8	Selenium	mg/L	0.0343	0.0131	0.0250	84.9	70 - 130	X536062 - X5H0401-01	05-Sep-25	D17
EPA 200.8	Selenium	mg/L	0.0274	<0.00100	0.0250	106	70 - 130	X536062 - X5H0514-01	05-Sep-25	
EPA 200.8	Thallium	mg/L	0.0244	<0.00100	0.0250	97.7	70 - 130	X536062 - X5H0401-01	05-Sep-25	D17
EPA 200.8	Thallium	mg/L	0.0250	<0.000200	0.0250	99.8	70 - 130	X536062 - X5H0514-01	05-Sep-25	
EPA 200.8	Uranium	mg/L	1.52	1.50	0.0250	74.4	70 - 130	X536062 - X5H0401-01	09-Sep-25	D17
EPA 200.8	Uranium	mg/L	0.0307	0.00218	0.0250	114	70 - 130	X536062 - X5H0514-01	09-Sep-25	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.385	0.354	0.00200	0.30R>S	70 - 130	X535039 - X5H0246-01	26-Aug-25	M4
EPA 245.1	Mercury	mg/L	0.00206	<0.000200	0.00200	103	70 - 130	X535039 - X5H0407-01	26-Aug-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.111	<0.0050	0.100	111	79 - 121	X535118 - X5H0338-02	28-Aug-25	
EPA 335.4	Cyanide (total)	mg/L	0.103	<0.0050	0.100	103	90 - 110	X535006 - X5H0338-03	26-Aug-25	
EPA 335.4	Cyanide (total)	mg/L	0.103	<0.0050	0.100	103	90 - 110	X535006 - X5H0338-02	26-Aug-25	
EPA 350.1	Ammonia as N	mg/L	1.04	<0.030	1.00	104	90 - 110	X535089 - X5H0380-02	27-Aug-25	
EPA 350.1	Ammonia as N	mg/L	1.12	<0.030	1.00	110	90 - 110	X535089 - X5H0382-03	27-Aug-25	
OIA 1677	Cyanide (WAD)	mg/L	0.0972	<0.0050	0.100	97.2	82 - 118	X535081 - X5H0382-04	26-Aug-25	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	6.36	3.24	3.00	104	90 - 110	X534178 - X5H0337-01	21-Aug-25	
EPA 300.0	Chloride	mg/L	6.39	3.28	3.00	103	90 - 110	X534178 - X5H0337-02	21-Aug-25	
EPA 300.0	Fluoride	mg/L	2.06	<0.100	2.00	101	90 - 110	X534178 - X5H0337-01	21-Aug-25	
EPA 300.0	Fluoride	mg/L	2.07	<0.100	2.00	101	90 - 110	X534178 - X5H0337-02	21-Aug-25	
EPA 300.0	Nitrate as N	mg/L	2.13	0.090	2.00	102	90 - 110	X534178 - X5H0337-01	21-Aug-25	
EPA 300.0	Nitrate as N	mg/L	2.15	0.103	2.00	102	90 - 110	X534178 - X5H0337-02	21-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.21	0.100	4.00	103	90 - 110	X534178 - X5H0337-01	21-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.27	0.111	4.00	104	90 - 110	X534178 - X5H0337-02	21-Aug-25	
EPA 300.0	Nitrite as N	mg/L	2.08	<0.050	2.00	104	90 - 110	X534178 - X5H0337-01	21-Aug-25	
EPA 300.0	Nitrite as N	mg/L	2.12	<0.050	2.00	106	90 - 110	X534178 - X5H0337-02	21-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	12.9	2.45	10.0	104	90 - 110	X534178 - X5H0337-01	21-Aug-25	

SVL holds the following certifications:

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

Work order Report Page 7 of 10

**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: **X5H0384**

Reported: 09-Sep-25 14:48

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	13.2	2.55	10.0	107	90 - 110	X534178 - X5H0337-02	21-Aug-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	535	548	20.0	2.0	20	0.30R>S	X535206 - X5H0330-01	M4
EPA 200.7	Magnesium	mg/L	51.7	50.8	20.0	1.7	20	108	X535206 - X5H0330-01	
EPA 200.7	Potassium	mg/L	57.4	57.2	20.0	0.2	20	105	X535206 - X5H0330-01	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1080	1060	1.00	2.7	20	0.30R>S	X535122 - X5H0382-03	M4
EPA 200.7	Barium	mg/L	0.993	0.997	1.00	0.5	20	98.0	X535122 - X5H0382-03	
EPA 200.7	Beryllium	mg/L	1.87	1.86	1.00	0.7	20	111	X535122 - X5H0382-03	
EPA 200.7	Boron	mg/L	1.15	1.13	1.00	1.4	20	112	X535122 - X5H0382-03	
EPA 200.7	Cadmium	mg/L	3.03	3.02	1.00	0.3	20	96.4	X535122 - X5H0382-03	
EPA 200.7	Calcium	mg/L	468	475	20.0	1.4	20	79.0	X535122 - X5H0382-03	
EPA 200.7	Chromium	mg/L	1.27	1.27	1.00	0.6	20	103	X535122 - X5H0382-03	
EPA 200.7	Cobalt	mg/L	2.95	2.95	1.00	0.2	20	96.4	X535122 - X5H0382-03	
EPA 200.7	Copper	mg/L	6.32	6.34	1.00	0.2	20	117	X535122 - X5H0382-03	
EPA 200.7	Iron	mg/L	68.4	69.2	10.0	1.3	20	94.7	X535122 - X5H0382-03	
EPA 200.7	Lead	mg/L	0.999	0.988	1.00	1.1	20	99.9	X535122 - X5H0382-03	
EPA 200.7	Lithium	mg/L	1.81	1.81	1.00	0.3	20	143	X535122 - X5H0382-03	M1
EPA 200.7	Magnesium	mg/L	431	438	20.0	1.6	20	0.30R>S	X535122 - X5H0382-03	M3
EPA 200.7	Manganese	mg/L	318	308	1.00	2.9	20	0.30R>S	X535122 - X5H0382-03	M4
EPA 200.7	Molybdenum	mg/L	1.09	1.08	1.00	0.5	20	104	X535122 - X5H0382-03	
EPA 200.7	Nickel	mg/L	4.17	4.16	1.00	0.1	20	96.9	X535122 - X5H0382-03	
EPA 200.7	Potassium	mg/L	21.7	21.7	20.0	0.0	20	109	X535122 - X5H0382-03	
EPA 200.7	Silver	mg/L	0.0416	0.0402	0.0500	3.5	20	83.3	X535122 - X5H0382-03	
EPA 200.7	Sodium	mg/L	55.7	56.2	19.0	1.0	20	106	X535122 - X5H0382-03	
EPA 200.7	Vanadium	mg/L	0.211	0.204	1.00	3.0	20	21.1	X535122 - X5H0382-03	E12,M2
EPA 200.7	Zinc	mg/L	87.5	85.1	1.00	2.8	20	0.30R>S	X535122 - X5H0382-03	M4
EPA 200.8	Antimony	mg/L	0.0244	0.0241	0.0250	1.1	20	97.6	X536062 - X5H0401-01	D17
EPA 200.8	Arsenic	mg/L	0.181	0.184	0.0250	1.8	20	84.8	X536062 - X5H0401-01	D17
EPA 200.8	Selenium	mg/L	0.0340	0.0343	0.0250	1.1	20	83.4	X536062 - X5H0401-01	D17
EPA 200.8	Thallium	mg/L	0.0238	0.0244	0.0250	2.6	20	95.2	X536062 - X5H0401-01	D17
EPA 200.8	Uranium	mg/L	1.59	1.52	0.0250	4.7	20	0.30R>S	X536062 - X5H0401-01	D17,M4

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.373	0.385	0.00200	3.2	20	0.30R>S	X535039 - X5H0246-01	M4
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.113	0.111	0.100	1.6	11	113	X535118 - X5H0338-02	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.103	0.100	0.1	20	103	X535006 - X5H0338-03	
EPA 350.1	Ammonia as N	mg/L	1.03	1.04	1.00	0.8	20	103	X535089 - X5H0380-02	
OIA 1677	Cyanide (WAD)	mg/L	0.0973	0.0972	0.100	0.1	11	97.3	X535081 - X5H0382-04	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	6.33	6.36	3.00	0.3	20	103	X534178 - X5H0337-01	
EPA 300.0	Fluoride	mg/L	2.08	2.06	2.00	1.2	20	102	X534178 - X5H0337-01	
EPA 300.0	Nitrate as N	mg/L	2.15	2.13	2.00	0.8	20	103	X534178 - X5H0337-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.21	4.21	4.00	0.0	20	103	X534178 - X5H0337-01	
EPA 300.0	Nitrite as N	mg/L	2.06	2.08	2.00	0.8	20	103	X534178 - X5H0337-01	



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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: X5H0384				
Cripple Creek, CO 80813					Reported: 09-Sep-25 14:48				

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	13.2	12.9	10.0	2.3	20	107	X534178 - X5H0337-01	



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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: **X5H0384**

Reported: 09-Sep-25 14:48

Notes and Definitions

D17	Due to an internal standard failure at a lower dilution, 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.
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: **X5H0401**

Reported: 09-Sep-25 15:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-25	X5H0401-01	Ground Water	21-Aug-25 11:20	JC	22-Aug-2025	Q3
GVMW-27	X5H0401-02	Ground Water	21-Aug-25 12:25	JC	22-Aug-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: X5H0401

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: **X5H0401**

Reported: 09-Sep-25 15:51

Client Sample ID: **GVMW-25**

Sampled: 21-Aug-25 11:20

SVL Sample ID: **X5H0401-01 (Ground Water)**

Received: 22-Aug-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	454	mg/L	0.500	0.345	5	X536026	MAC	09/03/25 15:15	
EPA 200.7	Magnesium	317	mg/L	0.500	0.090		X536026	MAC	09/03/25 14:17	M3
EPA 200.7	Potassium	4.95	mg/L	0.50	0.18		X536026	MAC	09/03/25 14:17	
SM 2340 B	Hardness (as CaCO3)	2440	mg/L	3.31	1.23		N/A		08/28/25 10:29	

Metals (Dissolved)

EPA 200.7	Aluminum	649	mg/L	0.080	0.054		X535122	NMS	08/28/25 10:29	
EPA 200.7	Barium	0.0135	mg/L	0.0020	0.0019		X535122	NMS	08/28/25 10:29	
EPA 200.7	Beryllium	0.443	mg/L	0.00200	0.00080		X535122	NMS	08/29/25 07:02	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X535122	NMS	08/28/25 10:29	
EPA 200.7	Cadmium	1.17	mg/L	0.0020	0.0016		X535122	NMS	08/28/25 10:29	
EPA 200.7	Calcium	510	mg/L	0.100	0.069		X535122	NMS	08/28/25 10:29	
EPA 200.7	Chromium	0.123	mg/L	0.0060	0.0020		X535122	NMS	08/28/25 10:29	
EPA 200.7	Cobalt	1.19	mg/L	0.0060	0.0046		X535122	NMS	08/28/25 10:29	
EPA 200.7	Copper	1.81	mg/L	0.0100	0.0027		X535122	NMS	08/28/25 10:29	
EPA 200.7	Iron	1.87	mg/L	0.100	0.056		X535122	NMS	08/28/25 10:29	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X535122	NMS	08/28/25 10:29	
EPA 200.7	Lithium	0.200	mg/L	0.040	0.025		X535122	NMS	08/28/25 10:29	
EPA 200.7	Magnesium	304	mg/L	0.500	0.090		X535122	NMS	08/28/25 10:29	
EPA 200.7	Manganese	176	mg/L	0.0800	0.0340	10	X535122	NMS	08/29/25 07:00	
EPA 200.7	Molybdenum	0.0204	mg/L	0.0080	0.0034		X535122	NMS	08/29/25 07:02	
EPA 200.7	Nickel	1.92	mg/L	0.0100	0.0048		X535122	NMS	08/28/25 10:29	
EPA 200.7	Potassium	4.22	mg/L	0.50	0.18		X535122	NMS	08/28/25 10:29	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X535122	NMS	08/29/25 07:02	
EPA 200.7	Sodium	41.1	mg/L	0.50	0.12		X535122	NMS	08/28/25 10:29	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X535122	NMS	08/28/25 10:29	E12
EPA 200.7	Zinc	39.4	mg/L	0.0100	0.0054		X535122	NMS	08/28/25 10:29	
EPA 200.8	Antimony	< 0.00500	mg/L	0.00500	0.00360	5	X536062	JRR	09/05/25 13:41	D17
EPA 200.8	Arsenic	0.159	mg/L	0.00500	0.00105	5	X536062	JRR	09/05/25 13:41	D17
EPA 200.8	Selenium	0.0131	mg/L	0.00500	0.00120	5	X536062	JRR	09/05/25 13:41	D17
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.000400	5	X536062	JRR	09/05/25 13:41	D17
EPA 200.8	Uranium	1.50	mg/L	0.000500	0.000260	5	X536062	NMS	09/09/25 09:53	D17,M4

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X535040	SJN	08/26/25 15:23	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X535119	ORW	08/28/25 15:30	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X535006	JPM	08/26/25 09:51	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X535090	ORW	08/27/25 18:31	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X535081	ORW	08/26/25 18:37	
SM 2310 B	Acidity to pH 8.3	3570	mg/L as CaCO3	10.0			X536050	MWD	09/03/25 11:15	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X535168	MWD	08/28/25 16:50	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X535168	MWD	08/28/25 16:50	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X535168	MWD	08/28/25 16:50	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X535168	MWD	08/28/25 16:50	
SM 2540 C	Total Diss. Solids	8350	mg/L	40			X535030	TJL	08/27/25 12:40	
SM 2540 D	Total Susp. Solids	40.0	mg/L	5.0			X535031	TJL	08/27/25 12:50	
SM 4500 H B	pH @22.2°C	3.6	pH Units				X535168	MWD	08/28/25 16:50	H5

SVL holds the following certifications:

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

Work order Report Page 2 of 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: X5H0401 Reported: 09-Sep-25 15:51
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Client Sample ID: **GVMW-25**
SVL Sample ID: **X5H0401-01 (Ground Water)**

Sampled: 21-Aug-25 11:20
Received: 22-Aug-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	27.5	mg/L	2.00	0.22	10	X534227	RS	08/25/25 11:58	
EPA 300.0	Fluoride	64.2	mg/L	25.0	4.25	250	X534227	RS	08/25/25 12:15	
EPA 300.0	Nitrate as N	< 0.500	mg/L	0.500	0.130	10	X534227	RS	08/25/25 11:58	B11,H2
EPA 300.0	Nitrate+Nitrite as N	8.26	mg/L	1.00	0.440	10	X534227	RS	08/25/25 11:58	B11,H2
EPA 300.0	Nitrite as N	< 0.500	mg/L	0.500	0.310	10	X534227	RS	08/25/25 11:58	B11,H2
EPA 300.0	Sulfate as SO4	5890	mg/L	75.0	45.0	250	X534227	RS	08/25/25 12:15	

Cation/Anion Balance and TDS Ratios

Cation Sum: 130 meq/L	Anion Sum: 127 meq/L	C/A Balance: 0.83 %	Calculated TDS: 6856	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: **X5H0401**

Reported: 09-Sep-25 15:51

Client Sample ID: **GVMW-27**SVL Sample ID: **X5H0401-02 (Ground Water)**

Sampled: 21-Aug-25 12:25

Received: 22-Aug-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	314	mg/L	0.100	0.069		X536026	MAC	09/03/25 14:28	
EPA 200.7	Magnesium	119	mg/L	0.500	0.090		X536026	MAC	09/03/25 14:28	
EPA 200.7	Potassium	4.16	mg/L	0.50	0.18		X536026	MAC	09/03/25 14:28	
SM 2340 B	Hardness (as CaCO3)	1270	mg/L	2.31	0.543		N/A		08/28/25 10:31	

Metals (Dissolved)

EPA 200.7	Aluminum	114	mg/L	0.080	0.054		X535122	NMS	08/28/25 10:31	
EPA 200.7	Barium	0.0140	mg/L	0.0020	0.0019		X535122	NMS	08/28/25 10:31	
EPA 200.7	Beryllium	0.102	mg/L	0.00200	0.00080		X535122	NMS	08/29/25 07:04	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X535122	NMS	08/28/25 10:31	
EPA 200.7	Cadmium	0.285	mg/L	0.0020	0.0016		X535122	NMS	08/28/25 10:31	
EPA 200.7	Calcium	355	mg/L	0.100	0.069		X535122	NMS	08/28/25 10:31	
EPA 200.7	Chromium	0.0315	mg/L	0.0060	0.0020		X535122	NMS	08/28/25 10:31	
EPA 200.7	Cobalt	0.228	mg/L	0.0060	0.0046		X535122	NMS	08/28/25 10:31	
EPA 200.7	Copper	0.255	mg/L	0.0100	0.0027		X535122	NMS	08/28/25 10:31	
EPA 200.7	Iron	1.25	mg/L	0.100	0.056		X535122	NMS	08/28/25 10:31	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X535122	NMS	08/28/25 10:31	
EPA 200.7	Lithium	0.055	mg/L	0.040	0.025		X535122	NMS	08/28/25 10:31	
EPA 200.7	Magnesium	128	mg/L	0.500	0.090		X535122	NMS	08/28/25 10:31	
EPA 200.7	Manganese	53.6	mg/L	0.0080	0.0034		X535122	NMS	08/28/25 10:31	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X535122	NMS	08/29/25 07:04	
EPA 200.7	Nickel	0.486	mg/L	0.0100	0.0048		X535122	NMS	08/28/25 10:31	
EPA 200.7	Potassium	4.45	mg/L	0.50	0.18		X535122	NMS	08/28/25 10:31	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X535122	NMS	08/29/25 07:04	
EPA 200.7	Sodium	51.4	mg/L	0.50	0.12		X535122	NMS	08/28/25 10:31	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X535122	NMS	08/28/25 10:31	E12
EPA 200.7	Zinc	10.4	mg/L	0.0100	0.0054		X535122	NMS	08/28/25 10:31	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X536062	JRR	09/05/25 11:43	
EPA 200.8	Arsenic	0.0234	mg/L	0.00100	0.00021		X536062	JRR	09/05/25 14:00	
EPA 200.8	Selenium	0.00284	mg/L	0.00100	0.00024		X536062	JRR	09/05/25 14:00	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X536062	JRR	09/05/25 11:43	
EPA 200.8	Uranium	0.305	mg/L	0.000100	0.000052		X536062	JRR	09/05/25 11:43	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X535040	SJN	08/26/25 15:30	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X535119	ORW	08/28/25 15:46	M1
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X535006	JPM	08/26/25 09:52	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X535090	ORW	08/27/25 18:33	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X535081	ORW	08/26/25 18:41	
SM 2310 B	Acidity to pH 8.3	625	mg/L as CaCO3	10.0			X536050	MWD	09/03/25 11:15	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X535168	MWD	08/28/25 16:56	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X535168	MWD	08/28/25 16:56	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X535168	MWD	08/28/25 16:56	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X535168	MWD	08/28/25 16:56	
SM 2540 C	Total Diss. Solids	2980	mg/L	40			X535030	TJL	08/27/25 12:40	
SM 2540 D	Total Susp. Solids	20.0	mg/L	5.0			X535031	TJL	08/27/25 12:50	
SM 4500 H B	pH @22.2°C	4.1	pH Units				X535168	MWD	08/28/25 16:56	H5



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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 2024 Work Order: X5H0401 Reported: 09-Sep-25 15:51
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Client Sample ID: **GVMW-27**
SVL Sample ID: **X5H0401-02 (Ground Water)**

Sampled: 21-Aug-25 12:25
Received: 22-Aug-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	24.0	mg/L	10.0	1.10	50	X534227	RS	08/22/25 14:29	
EPA 300.0	Fluoride	14.2	mg/L	5.00	0.850	50	X534227	RS	08/22/25 14:29	
EPA 300.0	Nitrate as N	0.086	mg/L	0.050	0.013		X534227	RS	08/22/25 14:13	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X534227	RS	08/22/25 14:13	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X534227	RS	08/22/25 14:13	
EPA 300.0	Sulfate as SO4	1790	mg/L	15.0	9.00	50	X534227	RS	08/22/25 14:29	

Cation/Anion Balance and TDS Ratios

Cation Sum: 40.3 meq/L	Anion Sum: 38.7 meq/L	C/A Balance: 2.01 %	Calculated TDS: 2342	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: **X5H0401**

Reported: 09-Sep-25 15:51

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	X536026	03-Sep-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X536026	03-Sep-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X536026	03-Sep-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X535122	28-Aug-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X535122	28-Aug-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X535122	28-Aug-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X535122	28-Aug-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X535122	28-Aug-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X535122	28-Aug-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X535122	28-Aug-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X535122	28-Aug-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X535122	28-Aug-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X535122	28-Aug-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X535122	28-Aug-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X535122	28-Aug-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X535122	28-Aug-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X535122	28-Aug-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X535122	28-Aug-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X535122	28-Aug-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X535122	28-Aug-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X535122	28-Aug-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X535122	28-Aug-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X535122	28-Aug-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X535122	28-Aug-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X536062	05-Sep-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X536062	05-Sep-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X536062	05-Sep-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X536062	05-Sep-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X536062	05-Sep-25	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X535040	26-Aug-25	
Classical Chemistry Parameters								
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X535119	28-Aug-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X535006	26-Aug-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X535090	27-Aug-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X535081	26-Aug-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X536050	03-Sep-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X535168	28-Aug-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X535168	28-Aug-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X535168	28-Aug-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X535168	28-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X535030	27-Aug-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X535031	27-Aug-25	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X534227	22-Aug-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X534227	22-Aug-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X534227	22-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X534227	22-Aug-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X534227	22-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X534227	22-Aug-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: **X5H0401**

Reported: 09-Sep-25 15:51

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	X536026	03-Sep-25	
EPA 200.7	Magnesium	mg/L	19.5	20.0	97.7	85 - 115	X536026	03-Sep-25	
EPA 200.7	Potassium	mg/L	19.4	20.0	96.9	85 - 115	X536026	03-Sep-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.01	1.00	101	85 - 115	X535122	28-Aug-25	
EPA 200.7	Barium	mg/L	1.03	1.00	103	85 - 115	X535122	28-Aug-25	
EPA 200.7	Beryllium	mg/L	1.07	1.00	107	85 - 115	X535122	28-Aug-25	
EPA 200.7	Boron	mg/L	1.07	1.00	107	85 - 115	X535122	28-Aug-25	
EPA 200.7	Cadmium	mg/L	1.01	1.00	101	85 - 115	X535122	28-Aug-25	
EPA 200.7	Calcium	mg/L	20.7	20.0	104	85 - 115	X535122	28-Aug-25	
EPA 200.7	Chromium	mg/L	1.05	1.00	105	85 - 115	X535122	28-Aug-25	
EPA 200.7	Cobalt	mg/L	0.996	1.00	99.6	85 - 115	X535122	28-Aug-25	
EPA 200.7	Copper	mg/L	1.01	1.00	101	85 - 115	X535122	28-Aug-25	
EPA 200.7	Iron	mg/L	10.5	10.0	105	85 - 115	X535122	28-Aug-25	
EPA 200.7	Lead	mg/L	1.01	1.00	101	85 - 115	X535122	28-Aug-25	
EPA 200.7	Lithium	mg/L	0.994	1.00	99.4	85 - 115	X535122	28-Aug-25	
EPA 200.7	Magnesium	mg/L	20.2	20.0	101	85 - 115	X535122	28-Aug-25	
EPA 200.7	Manganese	mg/L	1.04	1.00	104	85 - 115	X535122	28-Aug-25	
EPA 200.7	Molybdenum	mg/L	1.06	1.00	106	85 - 115	X535122	28-Aug-25	
EPA 200.7	Nickel	mg/L	1.00	1.00	100	85 - 115	X535122	28-Aug-25	
EPA 200.7	Potassium	mg/L	21.8	20.0	109	85 - 115	X535122	28-Aug-25	
EPA 200.7	Silver	mg/L	0.0525	0.0500	105	85 - 115	X535122	28-Aug-25	
EPA 200.7	Sodium	mg/L	19.6	19.0	103	85 - 115	X535122	28-Aug-25	
EPA 200.7	Vanadium	mg/L	1.06	1.00	106	85 - 115	X535122	28-Aug-25	
EPA 200.7	Zinc	mg/L	1.05	1.00	105	85 - 115	X535122	28-Aug-25	
EPA 200.8	Antimony	mg/L	0.0217	0.0250	87.0	85 - 115	X536062	05-Sep-25	
EPA 200.8	Antimony	mg/L	0.0222	0.0250	89.0	85 - 115	X536062	05-Sep-25	
EPA 200.8	Arsenic	mg/L	0.0239	0.0250	95.8	85 - 115	X536062	05-Sep-25	
EPA 200.8	Selenium	mg/L	0.0215	0.0250	86.2	85 - 115	X536062	05-Sep-25	
EPA 200.8	Thallium	mg/L	0.0233	0.0250	93.3	85 - 115	X536062	05-Sep-25	
EPA 200.8	Uranium	mg/L	0.0274	0.0250	109	85 - 115	X536062	05-Sep-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00207	0.00200	104	85 - 115	X535040	26-Aug-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0996	0.100	99.6	90 - 110	X535119	28-Aug-25	
EPA 335.4	Cyanide (total)	mg/L	0.0959	0.100	95.9	90 - 110	X535006	26-Aug-25	
EPA 350.1	Ammonia as N	mg/L	0.977	1.00	97.7	90 - 110	X535090	27-Aug-25	
OIA 1677	Cyanide (WAD)	mg/L	0.101	0.100	101	90 - 110	X535081	26-Aug-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1200	1180	102	95.4 - 104	X536050	03-Sep-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.0	9.93	101	94 - 106	X535168	28-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	99.9	99.3	101	94 - 106	X535168	28-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	400	397	101	94 - 106	X535168	28-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	245	250	98.0	85 - 115	X535030	27-Aug-25	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X535031	27-Aug-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	2.99	3.00	99.6	90 - 110	X534227	22-Aug-25	
EPA 300.0	Fluoride	mg/L	1.94	2.00	97.2	90 - 110	X534227	22-Aug-25	
EPA 300.0	Nitrate as N	mg/L	1.95	2.00	97.6	90 - 110	X534227	22-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.40	4.50	97.8	90 - 110	X534227	22-Aug-25	
EPA 300.0	Nitrite as N	mg/L	2.45	2.50	97.9	90 - 110	X534227	22-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	9.61	10.0	96.1	90 - 110	X534227	22-Aug-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: **X5H0401**

Reported: 09-Sep-25 15:51

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	26600	26600	0.1	20	X536050 - X5H0382-01	03-Sep-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	557	557	0.0	20	X535168 - X5H0440-01	28-Aug-25	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	557	557	0.0	20	X535168 - X5H0440-01	28-Aug-25	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X535168 - X5H0440-01	28-Aug-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X535168 - X5H0440-01	28-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	248	251	1.2	10	X535030 - X5H0402-02	27-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	325	329	1.2	10	X535030 - X5H0403-01	27-Aug-25	
SM 2540 D	Total Susp. Solids	mg/L	7.0	7.0	0.0	10	X535031 - X5H0402-02	27-Aug-25	
SM 4500 H B	pH @22.1°C	pH Units	7.1	7.0	0.7	20	X535168 - X5H0440-01	28-Aug-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	470	454	20.0	81	70 - 130	X536026 - X5H0401-01	03-Sep-25	
EPA 200.7	Magnesium	mg/L	337	317	20.0	102	70 - 130	X536026 - X5H0401-01	03-Sep-25	
EPA 200.7	Potassium	mg/L	24.8	4.95	20.0	99.1	70 - 130	X536026 - X5H0401-01	03-Sep-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.29	0.144	1.00	115	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Aluminum	mg/L	1060	1060	1.00	0.30R>S	70 - 130	X535122 - X5H0382-03	29-Aug-25	M4
EPA 200.7	Barium	mg/L	0.997	0.0124	1.00	98.5	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Barium	mg/L	1.14	<0.0020	1.00	114	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Beryllium	mg/L	1.86	0.763	1.00	110	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Beryllium	mg/L	1.05	<0.00200	1.00	105	70 - 130	X535122 - X5H0384-01	29-Aug-25	
EPA 200.7	Boron	mg/L	1.13	<0.0400	1.00	110	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Boron	mg/L	1.17	<0.0400	1.00	117	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Cadmium	mg/L	3.02	2.07	1.00	95.4	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Cadmium	mg/L	1.11	<0.0020	1.00	111	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Calcium	mg/L	475	453	20.0	111	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Calcium	mg/L	23.3	0.616	20.0	113	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Chromium	mg/L	1.27	0.248	1.00	102	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Chromium	mg/L	1.16	<0.0060	1.00	116	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Cobalt	mg/L	2.95	1.99	1.00	95.7	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Cobalt	mg/L	1.10	<0.0060	1.00	110	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Copper	mg/L	6.34	5.15	1.00	119	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Copper	mg/L	1.12	0.0133	1.00	110	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Iron	mg/L	69.2	58.9	10.0	103	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Iron	mg/L	11.5	<0.100	10.0	115	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Lead	mg/L	0.988	<0.0075	1.00	98.8	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Lead	mg/L	1.10	<0.0075	1.00	110	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Lithium	mg/L	1.81	0.381	1.00	142	70 - 130	X535122 - X5H0382-03	28-Aug-25	M1
EPA 200.7	Lithium	mg/L	1.14	<0.040	1.00	114	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Magnesium	mg/L	438	419	20.0	91.7	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Magnesium	mg/L	22.7	<0.500	20.0	113	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Manganese	mg/L	1.20	0.0544	1.00	115	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Manganese	mg/L	308	309	1.00	0.30R>S	70 - 130	X535122 - X5H0382-03	29-Aug-25	M4
EPA 200.7	Molybdenum	mg/L	1.08	0.0422	1.00	104	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Molybdenum	mg/L	1.05	<0.0080	1.00	105	70 - 130	X535122 - X5H0384-01	29-Aug-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: **X5H0401**

Reported: 09-Sep-25 15:51

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Nickel	mg/L	4.16	3.20	1.00	96.3	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Nickel	mg/L	1.11	0.0102	1.00	110	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Potassium	mg/L	21.7	<0.50	20.0	109	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Potassium	mg/L	23.9	0.54	20.0	117	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Silver	mg/L	0.0576	<0.0050	0.0500	115	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Silver	mg/L	0.0402	<0.0050	0.0500	80.4	70 - 130	X535122 - X5H0382-03	29-Aug-25	
EPA 200.7	Sodium	mg/L	56.2	35.6	19.0	109	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Sodium	mg/L	52.4	31.2	19.0	111	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Vanadium	mg/L	0.204	<0.0050	1.00	20.4	70 - 130	X535122 - X5H0382-03	28-Aug-25	E12,M2
EPA 200.7	Vanadium	mg/L	1.16	<0.0050	1.00	116	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Zinc	mg/L	1.20	0.0275	1.00	117	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Zinc	mg/L	85.1	83.8	1.00	0.30R>S	70 - 130	X535122 - X5H0382-03	29-Aug-25	M4
EPA 200.8	Antimony	mg/L	0.0241	<0.00500	0.0250	96.6	70 - 130	X536062 - X5H0401-01	05-Sep-25	D17
EPA 200.8	Antimony	mg/L	0.0277	<0.00100	0.0250	111	70 - 130	X536062 - X5H0514-01	09-Sep-25	
EPA 200.8	Arsenic	mg/L	0.184	0.159	0.0250	98.0	70 - 130	X536062 - X5H0401-01	05-Sep-25	D17
EPA 200.8	Arsenic	mg/L	0.0273	<0.00100	0.0250	106	70 - 130	X536062 - X5H0514-01	05-Sep-25	
EPA 200.8	Selenium	mg/L	0.0343	0.0131	0.0250	84.9	70 - 130	X536062 - X5H0401-01	05-Sep-25	D17
EPA 200.8	Selenium	mg/L	0.0274	<0.00100	0.0250	106	70 - 130	X536062 - X5H0514-01	05-Sep-25	
EPA 200.8	Thallium	mg/L	0.0244	<0.00100	0.0250	97.7	70 - 130	X536062 - X5H0401-01	05-Sep-25	D17
EPA 200.8	Thallium	mg/L	0.0250	<0.000200	0.0250	99.8	70 - 130	X536062 - X5H0514-01	05-Sep-25	
EPA 200.8	Uranium	mg/L	1.52	1.50	0.0250	74.4	70 - 130	X536062 - X5H0401-01	09-Sep-25	D17
EPA 200.8	Uranium	mg/L	0.0307	0.00218	0.0250	114	70 - 130	X536062 - X5H0514-01	09-Sep-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00209	<0.000200	0.00200	104	70 - 130	X535040 - X5H0401-01	26-Aug-25	
EPA 245.1	Mercury	mg/L	0.00198	<0.000200	0.00200	98.8	70 - 130	X535040 - X5H0410-01	26-Aug-25	

Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.122	<0.0050	0.100	122	79 - 121	X535119 - X5H0401-02	28-Aug-25	M1
EPA 335.4	Cyanide (total)	mg/L	0.103	<0.0050	0.100	103	90 - 110	X535006 - X5H0338-03	26-Aug-25	
EPA 335.4	Cyanide (total)	mg/L	0.103	<0.0050	0.100	103	90 - 110	X535006 - X5H0338-02	26-Aug-25	
EPA 350.1	Ammonia as N	mg/L	1.01	<0.030	1.00	101	90 - 110	X535090 - X5H0244-03	27-Aug-25	
EPA 350.1	Ammonia as N	mg/L	1.03	<0.030	1.00	103	90 - 110	X535090 - X5H0401-02	27-Aug-25	
OIA 1677	Cyanide (WAD)	mg/L	0.0972	<0.0050	0.100	97.2	82 - 118	X535081 - X5H0382-04	26-Aug-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.01	<0.20	3.00	98.4	90 - 110	X534227 - X5H0404-01	22-Aug-25	
EPA 300.0	Fluoride	mg/L	1.90	<0.100	2.00	94.9	90 - 110	X534227 - X5H0404-01	22-Aug-25	
EPA 300.0	Nitrate as N	mg/L	1.95	<0.050	2.00	97.6	90 - 110	X534227 - X5H0404-01	22-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.98	<0.100	4.00	99.5	90 - 110	X534227 - X5H0404-01	22-Aug-25	
EPA 300.0	Nitrite as N	mg/L	2.03	<0.050	2.00	102	90 - 110	X534227 - X5H0404-01	22-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	9.71	<0.30	10.0	94.6	90 - 110	X534227 - X5H0404-01	22-Aug-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	477	470	20.0	1.0	20	116	X536026 - X5H0401-01	
EPA 200.7	Magnesium	mg/L	350	337	20.0	3.7	20	0.30R>S	X536026 - X5H0401-01	M3
EPA 200.7	Potassium	mg/L	25.9	24.8	20.0	4.4	20	105	X536026 - X5H0401-01	



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: **X5H0401**

Reported: 09-Sep-25 15:51

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	1080	1060	1.00	2.7	20	0.30R>S	X535122 - X5H0382-03	M4
EPA 200.7	Barium	mg/L	0.993	0.997	1.00	0.5	20	98.0	X535122 - X5H0382-03	
EPA 200.7	Beryllium	mg/L	1.87	1.86	1.00	0.7	20	111	X535122 - X5H0382-03	
EPA 200.7	Boron	mg/L	1.15	1.13	1.00	1.4	20	112	X535122 - X5H0382-03	
EPA 200.7	Cadmium	mg/L	3.03	3.02	1.00	0.3	20	96.4	X535122 - X5H0382-03	
EPA 200.7	Calcium	mg/L	468	475	20.0	1.4	20	79.0	X535122 - X5H0382-03	
EPA 200.7	Chromium	mg/L	1.27	1.27	1.00	0.6	20	103	X535122 - X5H0382-03	
EPA 200.7	Cobalt	mg/L	2.95	2.95	1.00	0.2	20	96.4	X535122 - X5H0382-03	
EPA 200.7	Copper	mg/L	6.32	6.34	1.00	0.2	20	117	X535122 - X5H0382-03	
EPA 200.7	Iron	mg/L	68.4	69.2	10.0	1.3	20	94.7	X535122 - X5H0382-03	
EPA 200.7	Lead	mg/L	0.999	0.988	1.00	1.1	20	99.9	X535122 - X5H0382-03	
EPA 200.7	Lithium	mg/L	1.81	1.81	1.00	0.3	20	143	X535122 - X5H0382-03	M1
EPA 200.7	Magnesium	mg/L	431	438	20.0	1.6	20	0.30R>S	X535122 - X5H0382-03	M3
EPA 200.7	Manganese	mg/L	318	308	1.00	2.9	20	0.30R>S	X535122 - X5H0382-03	M4
EPA 200.7	Molybdenum	mg/L	1.09	1.08	1.00	0.5	20	104	X535122 - X5H0382-03	
EPA 200.7	Nickel	mg/L	4.17	4.16	1.00	0.1	20	96.9	X535122 - X5H0382-03	
EPA 200.7	Potassium	mg/L	21.7	21.7	20.0	0.0	20	109	X535122 - X5H0382-03	
EPA 200.7	Silver	mg/L	0.0416	0.0402	0.0500	3.5	20	83.3	X535122 - X5H0382-03	
EPA 200.7	Sodium	mg/L	55.7	56.2	19.0	1.0	20	106	X535122 - X5H0382-03	
EPA 200.7	Vanadium	mg/L	0.211	0.204	1.00	3.0	20	21.1	X535122 - X5H0382-03	E12,M2
EPA 200.7	Zinc	mg/L	87.5	85.1	1.00	2.8	20	0.30R>S	X535122 - X5H0382-03	M4
EPA 200.8	Antimony	mg/L	0.0244	0.0241	0.0250	1.1	20	97.6	X536062 - X5H0401-01	D17
EPA 200.8	Arsenic	mg/L	0.181	0.184	0.0250	1.8	20	84.8	X536062 - X5H0401-01	D17
EPA 200.8	Selenium	mg/L	0.0340	0.0343	0.0250	1.1	20	83.4	X536062 - X5H0401-01	D17
EPA 200.8	Thallium	mg/L	0.0238	0.0244	0.0250	2.6	20	95.2	X536062 - X5H0401-01	D17
EPA 200.8	Uranium	mg/L	1.59	1.52	0.0250	4.7	20	0.30R>S	X536062 - X5H0401-01	D17,M4

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00203	0.00209	0.00200	3.1	20	101	X535040 - X5H0401-01	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.127	0.122	0.100	3.8	11	127	X535119 - X5H0401-02	M1
EPA 335.4	Cyanide (total)	mg/L	0.103	0.103	0.100	0.1	20	103	X535006 - X5H0338-03	
EPA 350.1	Ammonia as N	mg/L	0.975	1.01	1.00	3.4	20	97.5	X535090 - X5H0244-03	
OIA 1677	Cyanide (WAD)	mg/L	0.0973	0.0972	0.100	0.1	11	97.3	X535081 - X5H0382-04	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.05	3.01	3.00	1.2	20	99.6	X534227 - X5H0404-01	
EPA 300.0	Fluoride	mg/L	1.94	1.90	2.00	2.1	20	96.9	X534227 - X5H0404-01	
EPA 300.0	Nitrate as N	mg/L	1.98	1.95	2.00	1.3	20	98.9	X534227 - X5H0404-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.99	3.98	4.00	0.1	20	99.7	X534227 - X5H0404-01	
EPA 300.0	Nitrite as N	mg/L	2.01	2.03	2.00	1.1	20	100	X534227 - X5H0404-01	
EPA 300.0	Sulfate as SO4	mg/L	9.99	9.71	10.0	2.9	20	97.4	X534227 - X5H0404-01	



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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: **X5H0401**

Reported: 09-Sep-25 15:51

Notes and Definitions

B11	Target analyte was detected in extraction method blank above laboratory acceptance limits due to contamination introduced during the extraction process.
D17	Due to an internal standard failure at a lower dilution, a sample dilution was performed.
E12	The reported value is estimated due to the presence of interferents.
H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
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.
Q3	Sample was received with improper chemical preservation.
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: **X5H0439**

Reported: 10-Sep-25 13:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-10	X5H0439-01	Ground Water	25-Aug-25 10:22	TR	26-Aug-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: X5H0439

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: **X5H0439**

Reported: 10-Sep-25 13:38

Client Sample ID: **GVMW-10**

Sampled: 25-Aug-25 10:22

Received: 26-Aug-25

Sampled By: TR

SVL Sample ID: **X5H0439-01 (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	330	mg/L	0.100	0.069		X536029	MAC	09/04/25 14:01	
EPA 200.7	Magnesium	134	mg/L	0.500	0.090		X536029	MAC	09/04/25 14:01	
EPA 200.7	Potassium	2.30	mg/L	0.50	0.18		X536029	MAC	09/04/25 14:01	
SM 2340 B	Hardness (as CaCO3)	1380	mg/L	2.31	0.543		N/A		08/28/25 10:38	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X535122	NMS	08/28/25 10:38	
EPA 200.7	Barium	0.0174	mg/L	0.0020	0.0019		X535122	NMS	08/28/25 10:38	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X535122	NMS	08/29/25 07:22	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X535122	NMS	08/28/25 10:38	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X535122	NMS	08/28/25 10:38	
EPA 200.7	Calcium	350	mg/L	0.100	0.069		X535122	NMS	08/28/25 10:38	
EPA 200.7	Chromium	0.0064	mg/L	0.0060	0.0020		X535122	NMS	08/28/25 10:38	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X535122	NMS	08/28/25 10:38	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X535122	NMS	08/28/25 10:38	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X535122	NMS	08/28/25 10:38	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X535122	NMS	08/28/25 10:38	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X535122	NMS	08/28/25 10:38	
EPA 200.7	Magnesium	139	mg/L	0.500	0.090		X535122	NMS	08/28/25 10:38	
EPA 200.7	Manganese	2.35	mg/L	0.0080	0.0034		X535122	NMS	08/28/25 10:38	
EPA 200.7	Molybdenum	0.0549	mg/L	0.0080	0.0034		X535122	NMS	08/29/25 07:22	
EPA 200.7	Nickel	0.0165	mg/L	0.0100	0.0048		X535122	NMS	08/28/25 10:38	
EPA 200.7	Potassium	2.24	mg/L	0.50	0.18		X535122	NMS	08/28/25 10:38	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X535122	NMS	08/28/25 10:38	
EPA 200.7	Sodium	37.7	mg/L	0.50	0.12		X535122	NMS	08/28/25 10:38	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X535122	NMS	08/28/25 10:38	
EPA 200.7	Zinc	0.127	mg/L	0.0100	0.0054		X535122	NMS	08/28/25 10:38	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X536060	NMS	09/05/25 08:45	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X536060	NMS	09/05/25 08:45	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X536060	NMS	09/05/25 08:45	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X536060	NMS	09/05/25 08:45	
EPA 200.8	Uranium	0.0503	mg/L	0.000100	0.000052		X536060	NMS	09/05/25 08:45	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X536025	SJN	09/03/25 15:21	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X535118	ORW	08/28/25 15:12	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X535007	JPM	09/03/25 09:33	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X535183	ORW	08/29/25 15:03	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X536057	JPM	09/08/25 15:44	
SM 2310 B	Acidity to pH 8.3	-320	mg/L as CaCO3	10.0			X536050	MWD	09/03/25 11:15	
SM 2320 B	Total Alkalinity	323	mg/L as CaCO3	1.0			X535168	MWD	08/28/25 17:30	
SM 2320 B	Bicarbonate	323	mg/L as CaCO3	1.0			X535168	MWD	08/28/25 17:30	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X535168	MWD	08/28/25 17:30	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X535168	MWD	08/28/25 17:30	
SM 2540 C	Total Diss. Solids	1830	mg/L	40			X535170	TJL	08/29/25 13:15	
SM 2540 D	Total Susp. Solids	12.0	mg/L	5.0			X535171	TJL	08/29/25 13:55	
SM 4500 H B	pH @22.1°C	7.3	pH Units				X535168	MWD	08/28/25 17:30	H5

SVL holds the following certifications:

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

Work order Report Page 2 of 10



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: X5H0439 Reported: 10-Sep-25 13:38
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Client Sample ID: **GVMW-10**
SVL Sample ID: **X5H0439-01 (Ground Water)**

Sampled: 25-Aug-25 10:22
Received: 26-Aug-25
Sampled By: TR

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	5.42	mg/L	0.20	0.02		X535102	RS	08/26/25 13:20	
EPA 300.0	Fluoride	1.11	mg/L	0.100	0.017		X535102	RS	08/26/25 13:20	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X535102	RS	08/26/25 13:20	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X535102	RS	08/26/25 13:20	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X535102	RS	08/26/25 13:20	
EPA 300.0	Sulfate as SO4	1140	mg/L	15.0	9.00	50	X535102	RS	08/26/25 13:38	

Cation/Anion Balance and TDS Ratios

Cation Sum: 29.3 meq/L	Anion Sum: 30.4 meq/L	C/A Balance: -1.85 %	Calculated TDS: 1857	TDS/cTDS: 0.99
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This data has been reviewed for accuracy and has been authorized for release.

Tawnya M. Hall

Tawnya M. Hall
Project Manager Assistant



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: **X5H0439**

Reported: 10-Sep-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	X536029	04-Sep-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X536029	04-Sep-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X536029	04-Sep-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X535122	28-Aug-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X535122	28-Aug-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X535122	28-Aug-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X535122	28-Aug-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X535122	28-Aug-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X535122	28-Aug-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X535122	28-Aug-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X535122	28-Aug-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X535122	28-Aug-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X535122	28-Aug-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X535122	28-Aug-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X535122	28-Aug-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X535122	28-Aug-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X535122	28-Aug-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X535122	28-Aug-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X535122	28-Aug-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X535122	28-Aug-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X535122	28-Aug-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X535122	28-Aug-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X535122	28-Aug-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X535122	28-Aug-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X536060	05-Sep-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X536060	05-Sep-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X536060	05-Sep-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X536060	05-Sep-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X536060	05-Sep-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X536060	05-Sep-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X536060	05-Sep-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X536060	05-Sep-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X536060	05-Sep-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X536060	05-Sep-25	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X536025	03-Sep-25	
Classical Chemistry Parameters								
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X535118	28-Aug-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X535007	03-Sep-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X535183	29-Aug-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X536057	08-Sep-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X536050	03-Sep-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X535168	28-Aug-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X535168	28-Aug-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X535168	28-Aug-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X535168	28-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X535170	29-Aug-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X535171	29-Aug-25	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X535102	26-Aug-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X535102	26-Aug-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X535102	26-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X535102	26-Aug-25	

SVL holds the following certifications:

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

Work order Report Page 4 of 10



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: **X5H0439**

Reported: 10-Sep-25 13:38

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	X535102	26-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X535102	26-Aug-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	21.5	20.0	107	85 - 115	X536029	04-Sep-25	
EPA 200.7	Magnesium	mg/L	21.9	20.0	109	85 - 115	X536029	04-Sep-25	
EPA 200.7	Potassium	mg/L	21.6	20.0	108	85 - 115	X536029	04-Sep-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.01	1.00	101	85 - 115	X535122	28-Aug-25	
EPA 200.7	Barium	mg/L	1.03	1.00	103	85 - 115	X535122	28-Aug-25	
EPA 200.7	Beryllium	mg/L	1.07	1.00	107	85 - 115	X535122	28-Aug-25	
EPA 200.7	Boron	mg/L	1.07	1.00	107	85 - 115	X535122	28-Aug-25	
EPA 200.7	Cadmium	mg/L	1.01	1.00	101	85 - 115	X535122	28-Aug-25	
EPA 200.7	Calcium	mg/L	20.7	20.0	104	85 - 115	X535122	28-Aug-25	
EPA 200.7	Chromium	mg/L	1.05	1.00	105	85 - 115	X535122	28-Aug-25	
EPA 200.7	Cobalt	mg/L	0.996	1.00	99.6	85 - 115	X535122	28-Aug-25	
EPA 200.7	Copper	mg/L	1.01	1.00	101	85 - 115	X535122	28-Aug-25	
EPA 200.7	Iron	mg/L	10.5	10.0	105	85 - 115	X535122	28-Aug-25	
EPA 200.7	Lead	mg/L	1.01	1.00	101	85 - 115	X535122	28-Aug-25	
EPA 200.7	Lithium	mg/L	0.994	1.00	99.4	85 - 115	X535122	28-Aug-25	
EPA 200.7	Magnesium	mg/L	20.2	20.0	101	85 - 115	X535122	28-Aug-25	
EPA 200.7	Manganese	mg/L	1.04	1.00	104	85 - 115	X535122	28-Aug-25	
EPA 200.7	Molybdenum	mg/L	1.06	1.00	106	85 - 115	X535122	28-Aug-25	
EPA 200.7	Nickel	mg/L	1.00	1.00	100	85 - 115	X535122	28-Aug-25	
EPA 200.7	Potassium	mg/L	21.8	20.0	109	85 - 115	X535122	28-Aug-25	
EPA 200.7	Silver	mg/L	0.0525	0.0500	105	85 - 115	X535122	28-Aug-25	
EPA 200.7	Sodium	mg/L	19.6	19.0	103	85 - 115	X535122	28-Aug-25	
EPA 200.7	Vanadium	mg/L	1.06	1.00	106	85 - 115	X535122	28-Aug-25	
EPA 200.7	Zinc	mg/L	1.05	1.00	105	85 - 115	X535122	28-Aug-25	
EPA 200.8	Antimony	mg/L	0.0240	0.0250	96.1	85 - 115	X536060	05-Sep-25	
EPA 200.8	Arsenic	mg/L	0.0254	0.0250	102	85 - 115	X536060	05-Sep-25	
EPA 200.8	Selenium	mg/L	0.0283	0.0250	113	85 - 115	X536060	05-Sep-25	
EPA 200.8	Thallium	mg/L	0.0229	0.0250	91.4	85 - 115	X536060	05-Sep-25	
EPA 200.8	Uranium	mg/L	0.0237	0.0250	94.8	85 - 115	X536060	05-Sep-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00209	0.00200	104	85 - 115	X536025	03-Sep-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.101	0.100	101	90 - 110	X535118	28-Aug-25	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.100	103	90 - 110	X535007	03-Sep-25	
EPA 350.1	Ammonia as N	mg/L	0.962	1.00	96.2	90 - 110	X535183	29-Aug-25	
OIA 1677	Cyanide (WAD)	mg/L	0.0991	0.100	99.1	90 - 110	X536057	08-Sep-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1200	1180	102	95.4 - 104	X536050	03-Sep-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.0	9.93	101	94 - 106	X535168	28-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	99.9	99.3	101	94 - 106	X535168	28-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	400	397	101	94 - 106	X535168	28-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	234	250	93.6	85 - 115	X535170	29-Aug-25	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X535171	29-Aug-25	

SVL holds the following certifications:

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

Work order Report Page 5 of 10

**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: **X5H0439**

Reported: 10-Sep-25 13:38

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	3.04	3.00	101	90 - 110	X535102	26-Aug-25	
EPA 300.0	Fluoride	mg/L	2.03	2.00	101	90 - 110	X535102	26-Aug-25	
EPA 300.0	Nitrate as N	mg/L	2.04	2.00	102	90 - 110	X535102	26-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.62	4.50	103	90 - 110	X535102	26-Aug-25	
EPA 300.0	Nitrite as N	mg/L	2.58	2.50	103	90 - 110	X535102	26-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	10.1	10.0	101	90 - 110	X535102	26-Aug-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	26600	26600	0.1	20	X536050 - X5H0382-01	03-Sep-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	557	557	0.0	20	X535168 - X5H0440-01	28-Aug-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	557	557	0.0	20	X535168 - X5H0440-01	28-Aug-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X535168 - X5H0440-01	28-Aug-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X535168 - X5H0440-01	28-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	1210	1200	0.7	10	X535170 - X5H0440-01	29-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	409	408	0.2	10	X535170 - X5H0470-02	29-Aug-25	
SM 2540 D	Total Susp. Solids	mg/L	6.0	6.0	0.0	10	X535171 - X5H0440-01	29-Aug-25	
SM 4500 H B	pH @22.1°C	pH Units	7.1	7.0	0.7	20	X535168 - X5H0440-01	28-Aug-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	65.1	45.7	20.0	97	70 - 130	X536029 - X5H0411-01	04-Sep-25	
EPA 200.7	Calcium	mg/L	29.1	10.9	20.0	91	70 - 130	X536029 - X5H0469-02	04-Sep-25	
EPA 200.7	Magnesium	mg/L	30.3	10.5	20.0	99.5	70 - 130	X536029 - X5H0411-01	04-Sep-25	
EPA 200.7	Magnesium	mg/L	20.1	1.31	20.0	94.0	70 - 130	X536029 - X5H0469-02	04-Sep-25	
EPA 200.7	Potassium	mg/L	22.0	2.45	20.0	97.7	70 - 130	X536029 - X5H0411-01	04-Sep-25	
EPA 200.7	Potassium	mg/L	19.1	<0.50	20.0	94.2	70 - 130	X536029 - X5H0469-02	04-Sep-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.29	0.144	1.00	115	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Aluminum	mg/L	1060	1060	1.00	0.30R>S	70 - 130	X535122 - X5H0382-03	29-Aug-25	M4
EPA 200.7	Barium	mg/L	0.997	0.0124	1.00	98.5	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Barium	mg/L	1.14	<0.0020	1.00	114	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Beryllium	mg/L	1.86	0.763	1.00	110	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Beryllium	mg/L	1.05	<0.00200	1.00	105	70 - 130	X535122 - X5H0384-01	29-Aug-25	
EPA 200.7	Boron	mg/L	1.13	<0.0400	1.00	110	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Boron	mg/L	1.17	<0.0400	1.00	117	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Cadmium	mg/L	3.02	2.07	1.00	95.4	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Cadmium	mg/L	1.11	<0.0020	1.00	111	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Calcium	mg/L	475	453	20.0	111	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Calcium	mg/L	23.3	0.616	20.0	113	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Chromium	mg/L	1.27	0.248	1.00	102	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Chromium	mg/L	1.16	<0.0060	1.00	116	70 - 130	X535122 - X5H0384-01	28-Aug-25	

SVL holds the following certifications:

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

Work order Report Page 6 of 10


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: **X5H0439**

Reported: 10-Sep-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	Cobalt	mg/L	2.95	1.99	1.00	95.7	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Cobalt	mg/L	1.10	<0.0060	1.00	110	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Copper	mg/L	6.34	5.15	1.00	119	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Copper	mg/L	1.12	0.0133	1.00	110	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Iron	mg/L	69.2	58.9	10.0	103	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Iron	mg/L	11.5	<0.100	10.0	115	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Lead	mg/L	0.988	<0.0075	1.00	98.8	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Lead	mg/L	1.10	<0.0075	1.00	110	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Lithium	mg/L	1.81	0.381	1.00	142	70 - 130	X535122 - X5H0382-03	28-Aug-25	M1
EPA 200.7	Lithium	mg/L	1.14	<0.040	1.00	114	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Magnesium	mg/L	438	419	20.0	91.7	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Magnesium	mg/L	22.7	<0.500	20.0	113	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Manganese	mg/L	1.20	0.0544	1.00	115	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Manganese	mg/L	308	309	1.00	0.30R>S	70 - 130	X535122 - X5H0382-03	29-Aug-25	M4
EPA 200.7	Molybdenum	mg/L	1.08	0.0422	1.00	104	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Molybdenum	mg/L	1.05	<0.0080	1.00	105	70 - 130	X535122 - X5H0384-01	29-Aug-25	
EPA 200.7	Nickel	mg/L	4.16	3.20	1.00	96.3	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Nickel	mg/L	1.11	0.0102	1.00	110	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Potassium	mg/L	21.7	<0.50	20.0	109	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Potassium	mg/L	23.9	0.54	20.0	117	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Silver	mg/L	0.0576	<0.0050	0.0500	115	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Silver	mg/L	0.0402	<0.0050	0.0500	80.4	70 - 130	X535122 - X5H0382-03	29-Aug-25	
EPA 200.7	Sodium	mg/L	56.2	35.6	19.0	109	70 - 130	X535122 - X5H0382-03	28-Aug-25	
EPA 200.7	Sodium	mg/L	52.4	31.2	19.0	111	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Vanadium	mg/L	0.204	<0.0050	1.00	20.4	70 - 130	X535122 - X5H0382-03	28-Aug-25	E12,M2
EPA 200.7	Vanadium	mg/L	1.16	<0.0050	1.00	116	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Zinc	mg/L	1.20	0.0275	1.00	117	70 - 130	X535122 - X5H0384-01	28-Aug-25	
EPA 200.7	Zinc	mg/L	85.1	83.8	1.00	0.30R>S	70 - 130	X535122 - X5H0382-03	29-Aug-25	M4
EPA 200.8	Antimony	mg/L	0.0250	<0.00100	0.0250	99.8	70 - 130	X536060 - X5H0356-01	05-Sep-25	
EPA 200.8	Arsenic	mg/L	0.0426	0.0174	0.0250	101	70 - 130	X536060 - X5H0356-01	05-Sep-25	
EPA 200.8	Selenium	mg/L	0.0284	<0.00100	0.0250	113	70 - 130	X536060 - X5H0356-01	05-Sep-25	
EPA 200.8	Thallium	mg/L	0.0226	<0.000200	0.0250	90.4	70 - 130	X536060 - X5H0356-01	05-Sep-25	
EPA 200.8	Uranium	mg/L	0.0273	0.00103	0.0250	105	70 - 130	X536060 - X5H0356-01	05-Sep-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00207	<0.000200	0.00200	103	70 - 130	X536025 - X5H0439-01	03-Sep-25	
EPA 245.1	Mercury	mg/L	0.00217	<0.000200	0.00200	109	70 - 130	X536025 - X5H0491-01	03-Sep-25	

Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.111	<0.0050	0.100	111	79 - 121	X535118 - X5H0338-02	28-Aug-25	
EPA 335.4	Cyanide (total)	mg/L	0.0996	<0.0050	0.100	99.6	90 - 110	X535007 - X5H0355-03	03-Sep-25	
EPA 335.4	Cyanide (total)	mg/L	0.153	0.0535	0.100	99.5	90 - 110	X535007 - X5H0355-06	03-Sep-25	
EPA 350.1	Ammonia as N	mg/L	0.984	<0.030	1.00	96.6	90 - 110	X535183 - X5H0440-01	29-Aug-25	
EPA 350.1	Ammonia as N	mg/L	0.992	<0.030	1.00	97.3	90 - 110	X535183 - X5H0468-02	29-Aug-25	
OIA 1677	Cyanide (WAD)	mg/L	0.0907	<0.0050	0.100	90.7	82 - 118	X536057 - X5H0468-01	08-Sep-25	R2B

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	8.60	5.67	3.00	98.0	90 - 110	X535102 - X5H0438-04	26-Aug-25	
EPA 300.0	Fluoride	mg/L	2.61	0.667	2.00	97.3	90 - 110	X535102 - X5H0438-04	26-Aug-25	
EPA 300.0	Nitrate as N	mg/L	3.99	<0.050	2.00	198	90 - 110	X535102 - X5H0438-04	28-Aug-25	M2
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.75	<0.100	4.00	119	90 - 110	X535102 - X5H0438-04	28-Aug-25	M1

SVL holds the following certifications:

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

Work order Report Page 7 of 10

**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: **X5H0439**

Reported: 10-Sep-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
Anions by Ion Chromatography (Continued)										
EPA 300.0	Nitrite as N	mg/L	0.756	<0.050	2.00	37.8	90 - 110	X535102 - X5H0438-04	28-Aug-25	M2
EPA 300.0	Sulfate as SO4	mg/L	46.5	36.7	10.0	98.1	90 - 110	X535102 - X5H0438-04	26-Aug-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	65.2	65.1	20.0	0.3	20	98	X536029 - X5H0411-01	
EPA 200.7	Magnesium	mg/L	30.6	30.3	20.0	0.8	20	101	X536029 - X5H0411-01	
EPA 200.7	Potassium	mg/L	22.1	22.0	20.0	0.7	20	98.5	X536029 - X5H0411-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1080	1060	1.00	2.7	20	0.30R>S	X535122 - X5H0382-03	M4
EPA 200.7	Barium	mg/L	0.993	0.997	1.00	0.5	20	98.0	X535122 - X5H0382-03	
EPA 200.7	Beryllium	mg/L	1.87	1.86	1.00	0.7	20	111	X535122 - X5H0382-03	
EPA 200.7	Boron	mg/L	1.15	1.13	1.00	1.4	20	112	X535122 - X5H0382-03	
EPA 200.7	Cadmium	mg/L	3.03	3.02	1.00	0.3	20	96.4	X535122 - X5H0382-03	
EPA 200.7	Calcium	mg/L	468	475	20.0	1.4	20	79.0	X535122 - X5H0382-03	
EPA 200.7	Chromium	mg/L	1.27	1.27	1.00	0.6	20	103	X535122 - X5H0382-03	
EPA 200.7	Cobalt	mg/L	2.95	2.95	1.00	0.2	20	96.4	X535122 - X5H0382-03	
EPA 200.7	Copper	mg/L	6.32	6.34	1.00	0.2	20	117	X535122 - X5H0382-03	
EPA 200.7	Iron	mg/L	68.4	69.2	10.0	1.3	20	94.7	X535122 - X5H0382-03	
EPA 200.7	Lead	mg/L	0.999	0.988	1.00	1.1	20	99.9	X535122 - X5H0382-03	
EPA 200.7	Lithium	mg/L	1.81	1.81	1.00	0.3	20	143	X535122 - X5H0382-03	M1
EPA 200.7	Magnesium	mg/L	431	438	20.0	1.6	20	0.30R>S	X535122 - X5H0382-03	M3
EPA 200.7	Manganese	mg/L	318	308	1.00	2.9	20	0.30R>S	X535122 - X5H0382-03	M4
EPA 200.7	Molybdenum	mg/L	1.09	1.08	1.00	0.5	20	104	X535122 - X5H0382-03	
EPA 200.7	Nickel	mg/L	4.17	4.16	1.00	0.1	20	96.9	X535122 - X5H0382-03	
EPA 200.7	Potassium	mg/L	21.7	21.7	20.0	0.0	20	109	X535122 - X5H0382-03	
EPA 200.7	Silver	mg/L	0.0416	0.0402	0.0500	3.5	20	83.3	X535122 - X5H0382-03	
EPA 200.7	Sodium	mg/L	55.7	56.2	19.0	1.0	20	106	X535122 - X5H0382-03	
EPA 200.7	Vanadium	mg/L	0.211	0.204	1.00	3.0	20	21.1	X535122 - X5H0382-03	E12,M2
EPA 200.7	Zinc	mg/L	87.5	85.1	1.00	2.8	20	0.30R>S	X535122 - X5H0382-03	M4
EPA 200.8	Antimony	mg/L	0.0255	0.0250	0.0250	2.1	20	102	X536060 - X5H0356-01	
EPA 200.8	Arsenic	mg/L	0.0430	0.0426	0.0250	0.8	20	102	X536060 - X5H0356-01	
EPA 200.8	Selenium	mg/L	0.0290	0.0284	0.0250	2.2	20	116	X536060 - X5H0356-01	
EPA 200.8	Thallium	mg/L	0.0237	0.0226	0.0250	4.7	20	94.8	X536060 - X5H0356-01	
EPA 200.8	Uranium	mg/L	0.0276	0.0273	0.0250	1.2	20	106	X536060 - X5H0356-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00210	0.00207	0.00200	1.5	20	105	X536025 - X5H0439-01	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.113	0.111	0.100	1.6	11	113	X535118 - X5H0338-02	
EPA 335.4	Cyanide (total)	mg/L	0.102	0.0996	0.100	2.6	20	102	X535007 - X5H0355-03	
EPA 350.1	Ammonia as N	mg/L	0.976	0.984	1.00	0.8	20	95.8	X535183 - X5H0440-01	
OIA 1677	Cyanide (WAD)	mg/L	0.114	0.0907	0.100	23.1	11	114	X536057 - X5H0468-01	R2B
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	8.69	8.60	3.00	1.0	20	101	X535102 - X5H0438-04	
EPA 300.0	Fluoride	mg/L	2.67	2.61	2.00	2.0	20	100	X535102 - X5H0438-04	
EPA 300.0	Nitrate as N	mg/L	4.08	3.99	2.00	2.4	20	203	X535102 - X5H0438-04	M2
EPA 300.0	Nitrate+Nitrite as N	mg/L	5.05	4.75	4.00	6.3	20	126	X535102 - X5H0438-04	M1



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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: X5H0439				
Cripple Creek, CO 80813					Reported: 10-Sep-25 13:38				

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	Nitrite as N	mg/L	0.969	0.756	2.00	24.7	20	48.5	X535102 - X5H0438-04	M2
EPA 300.0	Sulfate as SO4	mg/L	46.7	46.5	10.0	0.5	20	100	X535102 - X5H0438-04	



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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: **X5H0439**

Reported: 10-Sep-25 13:38

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: **X5H0468**

Reported: 11-Sep-25 18:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-30	X5H0468-01	Ground Water	26-Aug-25 11:18	JC	27-Aug-2025	Q5
GVMW-34	X5H0468-02	Ground Water	26-Aug-25 12:28	JC	27-Aug-2025	
OSABH-16	X5H0468-03	Ground Water	26-Aug-25 10:39	JC	27-Aug-2025	Q5C

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

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

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

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

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

Case Narrative: X5H0468

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: **X5H0468**

Reported: 11-Sep-25 18:03

Client Sample ID: **GVMW-30**

Sampled: 26-Aug-25 11:18

Received: 27-Aug-25

Sampled By: JC

SVL Sample ID: **X5H0468-01 (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		X536029	MAC	09/04/25 14:05	
EPA 200.7	Magnesium	253	mg/L	0.500	0.090		X536029	MAC	09/04/25 14:05	
EPA 200.7	Potassium	1.71	mg/L	0.50	0.18		X536029	MAC	09/04/25 14:05	
SM 2340 B	Hardness (as CaCO3)	2440	mg/L	2.31	0.543		N/A		09/04/25 14:05	

Metals (Dissolved)

EPA 200.7	Aluminum	303	mg/L	0.080	0.054		X536006	SJN	09/09/25 16:31	
EPA 200.7	Barium	0.0119	mg/L	0.0020	0.0019		X536006	SJN	09/09/25 16:31	
EPA 200.7	Beryllium	0.500	mg/L	0.00200	0.00080		X536006	SJN	09/09/25 16:31	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X536006	SJN	09/09/25 18:05	
EPA 200.7	Cadmium	0.235	mg/L	0.0020	0.0016		X536006	SJN	09/09/25 16:31	
EPA 200.7	Calcium	504	mg/L	0.100	0.069		X536006	SJN	09/09/25 16:31	
EPA 200.7	Chromium	0.233	mg/L	0.0060	0.0020		X536006	SJN	09/09/25 16:31	
EPA 200.7	Cobalt	0.398	mg/L	0.0060	0.0046		X536006	SJN	09/09/25 16:31	
EPA 200.7	Copper	0.180	mg/L	0.0100	0.0027		X536006	SJN	09/09/25 16:31	
EPA 200.7	Iron	12.5	mg/L	0.100	0.056		X536006	SJN	09/09/25 16:31	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X536006	SJN	09/09/25 16:31	
EPA 200.7	Lithium	0.219	mg/L	0.040	0.025		X536006	SJN	09/09/25 18:05	
EPA 200.7	Magnesium	287	mg/L	0.500	0.090		X536006	SJN	09/09/25 16:31	
EPA 200.7	Manganese	47.2	mg/L	0.0080	0.0034		X536006	SJN	09/09/25 16:31	
EPA 200.7	Molybdenum	0.0095	mg/L	0.0080	0.0034		X536006	SJN	09/09/25 16:31	
EPA 200.7	Nickel	1.32	mg/L	0.0100	0.0048		X536006	SJN	09/09/25 16:31	
EPA 200.7	Potassium	1.57	mg/L	0.50	0.18		X536006	SJN	09/09/25 18:05	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X536006	SJN	09/09/25 16:31	
EPA 200.7	Sodium	37.8	mg/L	0.50	0.12		X536006	SJN	09/09/25 16:31	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X536006	SJN	09/09/25 16:31	E12
EPA 200.7	Zinc	4.10	mg/L	0.0100	0.0054		X536006	SJN	09/09/25 16:31	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X536062	JRR	09/05/25 11:56	
EPA 200.8	Arsenic	0.0397	mg/L	0.00500	0.00105	5	X536062	JRR	09/05/25 14:10	D17
EPA 200.8	Selenium	< 0.00500	mg/L	0.00500	0.00120	5	X536062	JRR	09/05/25 14:10	D17
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.000400	5	X536062	JRR	09/05/25 14:10	D17
EPA 200.8	Uranium	0.469	mg/L	0.000500	0.000260	5	X536062	NMS	09/09/25 09:58	D17

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X536025	SJN	09/03/25 15:34	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X537010	ORW	09/09/25 18:55	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X535007	JPM	09/03/25 09:42	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X535183	ORW	08/29/25 15:34	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X536057	JPM	09/08/25 15:56	R2B
SM 2310 B	Acidity to pH 8.3	1730	mg/L as CaCO3	10.0			X537017	MWD	09/08/25 11:12	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X536048	MWD	09/04/25 16:10	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X536048	MWD	09/04/25 16:10	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X536048	MWD	09/04/25 16:10	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X536048	MWD	09/04/25 16:10	
SM 2540 C	Total Diss. Solids	5190	mg/L	40			X535226	TJL	09/02/25 13:25	
SM 2540 D	Total Susp. Solids	25.0	mg/L	5.0			X535228	TJL	09/02/25 13:00	
SM 4500 H B	pH @24.4°C	3.6	pH Units				X536048	MWD	09/04/25 16:10	H5

SVL holds the following certifications:

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

Work order Report Page 2 of 13



One Government Gulch - PO Box 929
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: X5H0468 Reported: 11-Sep-25 18:03
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Client Sample ID: **GVMW-30**
SVL Sample ID: **X5H0468-01 (Ground Water)**

Sampled: 26-Aug-25 11:18
Received: 27-Aug-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	2.38	mg/L	1.00	0.11	5	X535147	RS	08/27/25 19:06	D18
EPA 300.0	Fluoride	6.80	mg/L	0.500	0.085	5	X535147	RS	08/27/25 19:06	D18
EPA 300.0	Nitrate as N	1.98	mg/L	0.250	0.065	5	X535147	RS	08/27/25 19:06	D18
EPA 300.0	Nitrate+Nitrite as N	1.98	mg/L	0.500	0.220	5	X535147	RS	08/27/25 19:06	
EPA 300.0	Nitrite as N	< 0.250	mg/L	0.250	0.155	5	X535147	RS	08/27/25 19:06	D18
EPA 300.0	Sulfate as SO4	3960	mg/L	30.0	18.0	100	X535147	RS	08/27/25 19:21	

Cation/Anion Balance and TDS Ratios										
Cation Sum: 80.9 meq/L		Anion Sum: 83.0 meq/L		C/A Balance: -1.27 %		Calculated TDS: 4764		TDS/cTDS: 1.09		

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

Dave Tryon
Dave Tryon
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: **X5H0468**

Reported: 11-Sep-25 18:03

Client Sample ID: **GVMW-34**

Sampled: 26-Aug-25 12:28

Received: 27-Aug-25

Sampled By: JC

SVL Sample ID: **X5H0468-02 (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	501	mg/L	1.00	0.690	10	X536029	MAC	09/04/25 14:28	
EPA 200.7	Magnesium	378	mg/L	0.500	0.090		X536029	MAC	09/04/25 14:13	
EPA 200.7	Potassium	4.38	mg/L	0.50	0.18		X536029	MAC	09/04/25 14:13	
SM 2340 B	Hardness (as CaCO3)	2810	mg/L	4.56	2.09		N/A		09/09/25 16:33	

Metals (Dissolved)

EPA 200.7	Aluminum	30.8	mg/L	0.080	0.054		X536006	SJN	09/09/25 16:33	
EPA 200.7	Barium	0.0326	mg/L	0.0020	0.0019		X536006	SJN	09/09/25 16:33	
EPA 200.7	Beryllium	0.0261	mg/L	0.00200	0.00080		X536006	SJN	09/09/25 16:33	
EPA 200.7	Boron	0.0469	mg/L	0.0400	0.0078		X536006	SJN	09/09/25 18:07	
EPA 200.7	Cadmium	0.112	mg/L	0.0020	0.0016		X536006	SJN	09/09/25 16:33	
EPA 200.7	Calcium	592	mg/L	0.100	0.069		X536006	SJN	09/09/25 16:33	
EPA 200.7	Chromium	0.0334	mg/L	0.0060	0.0020		X536006	SJN	09/09/25 16:33	
EPA 200.7	Cobalt	0.108	mg/L	0.0060	0.0046		X536006	SJN	09/09/25 16:33	
EPA 200.7	Copper	0.0175	mg/L	0.0100	0.0027		X536006	SJN	09/09/25 16:33	
EPA 200.7	Iron	0.846	mg/L	0.100	0.056		X536006	SJN	09/09/25 16:33	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X536006	SJN	09/09/25 16:33	
EPA 200.7	Lithium	0.317	mg/L	0.040	0.025		X536006	SJN	09/09/25 18:07	
EPA 200.7	Magnesium	439	mg/L	0.500	0.090		X536006	SJN	09/09/25 16:33	
EPA 200.7	Manganese	114	mg/L	0.0800	0.0340	10	X536006	SJN	09/09/25 16:46	
EPA 200.7	Molybdenum	0.0149	mg/L	0.0080	0.0034		X536006	SJN	09/09/25 16:33	
EPA 200.7	Nickel	0.608	mg/L	0.0100	0.0048		X536006	SJN	09/09/25 16:33	
EPA 200.7	Potassium	4.41	mg/L	0.50	0.18		X536006	SJN	09/09/25 18:07	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X536006	SJN	09/09/25 16:33	
EPA 200.7	Sodium	59.0	mg/L	0.50	0.12		X536006	SJN	09/09/25 16:33	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X536006	SJN	09/09/25 16:33	E12
EPA 200.7	Zinc	14.4	mg/L	0.0100	0.0054		X536006	SJN	09/09/25 16:33	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X536062	JRR	09/05/25 11:59	
EPA 200.8	Arsenic	< 0.00500	mg/L	0.00500	0.00105	5	X536062	JRR	09/05/25 14:12	D17
EPA 200.8	Selenium	0.0136	mg/L	0.00500	0.00120	5	X536062	JRR	09/05/25 14:12	D17
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.000400	5	X536062	JRR	09/05/25 14:12	D17
EPA 200.8	Uranium	0.0507	mg/L	0.000500	0.000260	5	X536062	NMS	09/09/25 09:59	D17

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X536025	SJN	09/03/25 15:36	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X537010	ORW	09/09/25 18:58	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X535007	JPM	09/03/25 09:44	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X535183	ORW	08/29/25 15:36	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X536057	JPM	09/08/25 15:59	
SM 2310 B	Acidity to pH 8.3	-160	mg/L as CaCO3	10.0			X537017	MWD	09/08/25 11:12	
SM 2320 B	Total Alkalinity	158	mg/L as CaCO3	1.0			X536048	MWD	09/04/25 16:16	
SM 2320 B	Bicarbonate	158	mg/L as CaCO3	1.0			X536048	MWD	09/04/25 16:16	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X536048	MWD	09/04/25 16:16	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X536048	MWD	09/04/25 16:16	
SM 2540 C	Total Diss. Solids	4470	mg/L	40			X535226	TJL	09/02/25 13:25	
SM 2540 D	Total Susp. Solids	50.0	mg/L	5.0			X535228	TJL	09/02/25 13:00	
SM 4500 H B	pH @24.4°C	6.1	pH Units				X536048	MWD	09/04/25 16:16	H5

SVL holds the following certifications:

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

Work order Report Page 4 of 13



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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: X5H0468 Reported: 11-Sep-25 18:03
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Client Sample ID: **GVMW-34**
SVL Sample ID: **X5H0468-02 (Ground Water)**

Sampled: 26-Aug-25 12:28
Received: 27-Aug-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	27.6	mg/L	1.00	0.11	5	X535147	RS	08/27/25 19:37	
EPA 300.0	Fluoride	37.3	mg/L	10.0	1.70	100	X535147	RS	08/27/25 19:53	
EPA 300.0	Nitrate as N	12.0	mg/L	0.250	0.065	5	X535147	RS	08/27/25 19:37	
EPA 300.0	Nitrate+Nitrite as N	12.0	mg/L	0.500	0.220	5	X535147	RS	08/27/25 19:37	
EPA 300.0	Nitrite as N	< 0.250	mg/L	0.250	0.155	5	X535147	RS	08/27/25 19:37	D18
EPA 300.0	Sulfate as SO4	3070	mg/L	30.0	18.0	100	X535147	RS	08/27/25 19:53	

Cation/Anion Balance and TDS Ratios

Cation Sum: 66.9 meq/L	Anion Sum: 70.7 meq/L	C/A Balance: -2.75 %	Calculated TDS: 4301	TDS/cTDS: 1.04
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This data has been reviewed for accuracy and has been authorized for release.

Dave Tryon
Dave Tryon
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: **X5H0468**

Reported: 11-Sep-25 18:03

Client Sample ID: **OSABH-16**

Sampled: 26-Aug-25 10:39

Received: 27-Aug-25

Sampled By: JC

SVL Sample ID: **X5H0468-03 (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	510	mg/L	1.00	0.690	10	X536029	MAC	09/04/25 14:30	D18
EPA 200.7	Magnesium	307	mg/L	5.00	0.900	10	X536029	MAC	09/04/25 14:30	D18
EPA 200.7	Potassium	< 5.00	mg/L	5.00	1.80	10	X536029	MAC	09/04/25 14:30	D18
SM 2340 B	Hardness (as CaCO3)	2540	mg/L	23.1	5.43		N/A		09/09/25 18:09	

Metals (Dissolved)

EPA 200.7	Aluminum	671	mg/L	0.160	0.108	2	X536006	SJN	09/09/25 18:09	D18
EPA 200.7	Barium	0.0129	mg/L	0.0040	0.0038	2	X536006	SJN	09/09/25 18:09	D18
EPA 200.7	Beryllium	0.385	mg/L	0.00400	0.00160	2	X536006	SJN	09/09/25 18:09	D18
EPA 200.7	Boron	< 0.0800	mg/L	0.0800	0.0156	2	X536006	SJN	09/09/25 18:09	D18
EPA 200.7	Cadmium	2.99	mg/L	0.0040	0.0032	2	X536006	SJN	09/09/25 18:09	D18
EPA 200.7	Calcium	488	mg/L	0.200	0.138	2	X536006	SJN	09/09/25 18:09	D18
EPA 200.7	Chromium	0.111	mg/L	0.0120	0.0040	2	X536006	SJN	09/09/25 18:09	D18
EPA 200.7	Cobalt	2.11	mg/L	0.0120	0.0092	2	X536006	SJN	09/09/25 18:09	D18
EPA 200.7	Copper	3.64	mg/L	0.0200	0.0054	2	X536006	SJN	09/09/25 18:09	D18
EPA 200.7	Iron	19.6	mg/L	0.200	0.112	2	X536006	SJN	09/09/25 18:09	D18
EPA 200.7	Lead	0.0230	mg/L	0.0150	0.0098	2	X536006	SJN	09/09/25 18:09	D18
EPA 200.7	Lithium	0.418	mg/L	0.080	0.050	2	X536006	SJN	09/09/25 18:09	D18
EPA 200.7	Magnesium	300	mg/L	1.00	0.180	2	X536006	SJN	09/09/25 18:09	D18
EPA 200.7	Manganese	650	mg/L	0.0800	0.0340	10	X536006	SJN	09/09/25 16:35	D18
EPA 200.7	Molybdenum	0.0388	mg/L	0.0160	0.0068	2	X536006	SJN	09/09/25 18:09	D18
EPA 200.7	Nickel	1.79	mg/L	0.0200	0.0096	2	X536006	SJN	09/09/25 18:09	D18
EPA 200.7	Potassium	1.16	mg/L	1.00	0.36	2	X536006	SJN	09/09/25 18:09	D18
EPA 200.7	Silver	< 0.0100	mg/L	0.0100	0.0038	2	X536006	JRR	09/11/25 06:37	D18
EPA 200.7	Sodium	21.6	mg/L	1.00	0.24	2	X536006	SJN	09/09/25 18:09	D18
EPA 200.7	Vanadium	< 0.0100	mg/L	0.0100	0.0038	2	X536006	SJN	09/09/25 18:09	D18,E12
EPA 200.7	Zinc	124	mg/L	0.100	0.0540	10	X536006	SJN	09/09/25 16:35	D18
EPA 200.8	Antimony	< 0.00500	mg/L	0.00500	0.00360	5	X536062	JRR	09/05/25 14:14	D17
EPA 200.8	Arsenic	0.126	mg/L	0.00500	0.00105	5	X536062	JRR	09/05/25 14:14	D17
EPA 200.8	Selenium	0.0162	mg/L	0.00500	0.00120	5	X536062	JRR	09/05/25 14:14	D17
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.000400	5	X536062	JRR	09/05/25 14:14	D17
EPA 200.8	Uranium	4.74	mg/L	0.000500	0.000260	5	X536062	NMS	09/09/25 10:01	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X536025	SJN	09/03/25 15:38	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X537010	ORW	09/09/25 19:01	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X535007	JPM	09/03/25 09:54	
EPA 350.1	Ammonia as N	0.056	mg/L	0.030	0.013		X535183	ORW	08/29/25 15:38	
OIA 1677	Cyanide (WAD)	< 0.0500	mg/L	0.0500	0.0100	10	X536057	JPM	09/08/25 16:14	Q12
SM 2310 B	Acidity to pH 8.3	4820	mg/L as CaCO3	10.0			X537017	MWD	09/08/25 11:12	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X536048	MWD	09/04/25 16:21	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X536048	MWD	09/04/25 16:21	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X536048	MWD	09/04/25 16:21	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X536048	MWD	09/04/25 16:21	
SM 2540 C	Total Diss. Solids	11500	mg/L	100			X535226	TJL	09/02/25 13:25	
SM 2540 D	Total Susp. Solids	200	mg/L	5.0			X535228	TJL	09/02/25 13:00	
SM 4500 H B	pH @24.4°C	3.3	pH Units				X536048	MWD	09/04/25 16:21	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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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: X5H0468 Reported: 11-Sep-25 18:03
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Client Sample ID: **OSABH-16**
SVL Sample ID: **X5H0468-03 (Ground Water)**

Sampled: 26-Aug-25 10:39
Received: 27-Aug-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	5.96	mg/L	2.00	0.22	10	X535147	RS	08/27/25 20:08	D18
EPA 300.0	Fluoride	144	mg/L	25.0	4.25	250	X535147	RS	08/27/25 20:24	
EPA 300.0	Nitrate as N	2.47	mg/L	0.500	0.130	10	X535147	RS	08/27/25 20:08	D18
EPA 300.0	Nitrate+Nitrite as N	2.47	mg/L	1.00	0.440	10	X535147	RS	08/27/25 20:08	
EPA 300.0	Nitrite as N	< 0.500	mg/L	0.500	0.310	10	X535147	RS	08/27/25 20:08	D18
EPA 300.0	Sulfate as SO4	8170	mg/L	75.0	45.0	250	X535147	RS	08/27/25 20:24	

Cation/Anion Balance and TDS Ratios										
Cation Sum: 153 meq/L	Anion Sum: 178 meq/L	C/A Balance: -7.57 %	Calculated TDS: 9156	TDS/cTDS: 1.26						

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

Dave Tryon
Dave Tryon
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 2024

Work Order: **X5H0468**

Reported: 11-Sep-25 18:03

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	X536029	04-Sep-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X536029	04-Sep-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X536029	04-Sep-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X536006	09-Sep-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X536006	09-Sep-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X536006	09-Sep-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X536006	09-Sep-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X536006	09-Sep-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X536006	09-Sep-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X536006	09-Sep-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X536006	09-Sep-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X536006	09-Sep-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X536006	09-Sep-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X536006	09-Sep-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X536006	09-Sep-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X536006	09-Sep-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X536006	09-Sep-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X536006	09-Sep-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X536006	09-Sep-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X536006	09-Sep-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X536006	09-Sep-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X536006	09-Sep-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X536006	09-Sep-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X536006	09-Sep-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X536062	05-Sep-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X536062	05-Sep-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X536062	05-Sep-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X536062	05-Sep-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X536062	05-Sep-25	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X536025	03-Sep-25	
Classical Chemistry Parameters								
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X537010	09-Sep-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X535007	03-Sep-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X535183	29-Aug-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X536057	08-Sep-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X537017	08-Sep-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X536048	04-Sep-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X536048	04-Sep-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X536048	04-Sep-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X536048	04-Sep-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X535226	02-Sep-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X535228	02-Sep-25	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X535147	27-Aug-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X535147	27-Aug-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X535147	27-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X535147	27-Aug-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X535147	27-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X535147	27-Aug-25	

SVL holds the following certifications:

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

Work order Report Page 8 of 13



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net**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: **X5H0468**

Reported: 11-Sep-25 18:03

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	21.5	20.0	107	85 - 115	X536029	04-Sep-25	
EPA 200.7	Magnesium	mg/L	21.9	20.0	109	85 - 115	X536029	04-Sep-25	
EPA 200.7	Potassium	mg/L	21.6	20.0	108	85 - 115	X536029	04-Sep-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.05	1.00	105	85 - 115	X536006	09-Sep-25	
EPA 200.7	Barium	mg/L	1.02	1.00	102	85 - 115	X536006	09-Sep-25	
EPA 200.7	Beryllium	mg/L	1.04	1.00	104	85 - 115	X536006	09-Sep-25	
EPA 200.7	Boron	mg/L	0.979	1.00	97.9	85 - 115	X536006	09-Sep-25	
EPA 200.7	Cadmium	mg/L	0.995	1.00	99.5	85 - 115	X536006	09-Sep-25	
EPA 200.7	Calcium	mg/L	20.7	20.0	104	85 - 115	X536006	09-Sep-25	
EPA 200.7	Chromium	mg/L	1.04	1.00	104	85 - 115	X536006	09-Sep-25	
EPA 200.7	Cobalt	mg/L	0.990	1.00	99.0	85 - 115	X536006	09-Sep-25	
EPA 200.7	Copper	mg/L	1.00	1.00	100	85 - 115	X536006	09-Sep-25	
EPA 200.7	Iron	mg/L	10.6	10.0	106	85 - 115	X536006	09-Sep-25	
EPA 200.7	Lead	mg/L	1.00	1.00	100	85 - 115	X536006	09-Sep-25	
EPA 200.7	Lithium	mg/L	0.907	1.00	90.7	85 - 115	X536006	09-Sep-25	
EPA 200.7	Magnesium	mg/L	20.4	20.0	102	85 - 115	X536006	09-Sep-25	
EPA 200.7	Manganese	mg/L	1.03	1.00	103	85 - 115	X536006	09-Sep-25	
EPA 200.7	Molybdenum	mg/L	1.06	1.00	106	85 - 115	X536006	09-Sep-25	
EPA 200.7	Nickel	mg/L	0.985	1.00	98.5	85 - 115	X536006	09-Sep-25	
EPA 200.7	Potassium	mg/L	19.7	20.0	98.5	85 - 115	X536006	09-Sep-25	
EPA 200.7	Silver	mg/L	0.0500	0.0500	99.9	85 - 115	X536006	09-Sep-25	
EPA 200.7	Sodium	mg/L	19.8	19.0	104	85 - 115	X536006	09-Sep-25	
EPA 200.7	Vanadium	mg/L	1.05	1.00	105	85 - 115	X536006	09-Sep-25	
EPA 200.7	Zinc	mg/L	1.04	1.00	104	85 - 115	X536006	09-Sep-25	
EPA 200.8	Antimony	mg/L	0.0217	0.0250	87.0	85 - 115	X536062	05-Sep-25	
EPA 200.8	Antimony	mg/L	0.0222	0.0250	89.0	85 - 115	X536062	05-Sep-25	
EPA 200.8	Arsenic	mg/L	0.0239	0.0250	95.8	85 - 115	X536062	05-Sep-25	
EPA 200.8	Selenium	mg/L	0.0215	0.0250	86.2	85 - 115	X536062	05-Sep-25	
EPA 200.8	Thallium	mg/L	0.0233	0.0250	93.3	85 - 115	X536062	05-Sep-25	
EPA 200.8	Uranium	mg/L	0.0274	0.0250	109	85 - 115	X536062	05-Sep-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00209	0.00200	104	85 - 115	X536025	03-Sep-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0978	0.100	97.8	90 - 110	X537010	09-Sep-25	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.100	103	90 - 110	X535007	03-Sep-25	
EPA 350.1	Ammonia as N	mg/L	0.962	1.00	96.2	90 - 110	X535183	29-Aug-25	
OIA 1677	Cyanide (WAD)	mg/L	0.0991	0.100	99.1	90 - 110	X536057	08-Sep-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1210	1180	102	95.4 - 104	X537017	08-Sep-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.90	9.93	99.7	94 - 106	X536048	04-Sep-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	100	99.3	101	94 - 106	X536048	04-Sep-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	402	397	101	94 - 106	X536048	04-Sep-25	
SM 2540 C	Total Diss. Solids	mg/L	245	250	98.0	85 - 115	X535226	02-Sep-25	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X535228	02-Sep-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.00	3.00	100	90 - 110	X535147	27-Aug-25	
EPA 300.0	Fluoride	mg/L	1.96	2.00	97.9	90 - 110	X535147	27-Aug-25	
EPA 300.0	Nitrate as N	mg/L	2.02	2.00	101	90 - 110	X535147	27-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.56	4.50	101	90 - 110	X535147	27-Aug-25	
EPA 300.0	Nitrite as N	mg/L	2.53	2.50	101	90 - 110	X535147	27-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	10.4	10.0	104	90 - 110	X535147	27-Aug-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: **X5H0468**

Reported: 11-Sep-25 18:03

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	X537017 - X5H0466-01	08-Sep-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	156	158	1.2	20	X536048 - X5H0468-02	04-Sep-25	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	156	158	1.2	20	X536048 - X5H0468-02	04-Sep-25	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X536048 - X5H0468-02	04-Sep-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X536048 - X5H0468-02	04-Sep-25	
SM 2540 C	Total Diss. Solids	mg/L	220	193	13.1	10	X535226 - X5H0505-03	02-Sep-25	R2B
SM 2540 C	Total Diss. Solids	mg/L	250	250	0.0	10	X535226 - X5H0466-02	02-Sep-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X535228 - X5H0505-03	02-Sep-25	
SM 2540 D	Total Susp. Solids	mg/L	17.0	17.0	0.0	10	X535228 - X5H0466-02	02-Sep-25	
SM 4500 H B	pH @24.5°C	pH Units	6.1	6.1	0.5	20	X536048 - X5H0468-02	04-Sep-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	65.1	45.7	20.0	97	70 - 130	X536029 - X5H0411-01	04-Sep-25	
EPA 200.7	Calcium	mg/L	29.1	10.9	20.0	91	70 - 130	X536029 - X5H0469-02	04-Sep-25	
EPA 200.7	Magnesium	mg/L	30.3	10.5	20.0	99.5	70 - 130	X536029 - X5H0411-01	04-Sep-25	
EPA 200.7	Magnesium	mg/L	20.1	1.31	20.0	94.0	70 - 130	X536029 - X5H0469-02	04-Sep-25	
EPA 200.7	Potassium	mg/L	22.0	2.45	20.0	97.7	70 - 130	X536029 - X5H0411-01	04-Sep-25	
EPA 200.7	Potassium	mg/L	19.1	<0.50	20.0	94.2	70 - 130	X536029 - X5H0469-02	04-Sep-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.18	<0.080	1.00	112	70 - 130	X536006 - X5H0466-02	09-Sep-25	
EPA 200.7	Barium	mg/L	1.19	0.108	1.00	108	70 - 130	X536006 - X5H0466-02	09-Sep-25	
EPA 200.7	Beryllium	mg/L	1.12	<0.00200	1.00	112	70 - 130	X536006 - X5H0466-02	09-Sep-25	
EPA 200.7	Boron	mg/L	1.05	<0.0400	1.00	102	70 - 130	X536006 - X5H0466-02	09-Sep-25	
EPA 200.7	Cadmium	mg/L	1.06	<0.0020	1.00	106	70 - 130	X536006 - X5H0466-02	09-Sep-25	
EPA 200.7	Calcium	mg/L	73.0	50.6	20.0	112	70 - 130	X536006 - X5H0466-02	09-Sep-25	
EPA 200.7	Chromium	mg/L	1.11	<0.0060	1.00	111	70 - 130	X536006 - X5H0466-02	09-Sep-25	
EPA 200.7	Cobalt	mg/L	1.05	<0.0060	1.00	105	70 - 130	X536006 - X5H0466-02	09-Sep-25	
EPA 200.7	Copper	mg/L	1.07	<0.0100	1.00	107	70 - 130	X536006 - X5H0466-02	09-Sep-25	
EPA 200.7	Iron	mg/L	13.7	2.28	10.0	114	70 - 130	X536006 - X5H0466-02	09-Sep-25	
EPA 200.7	Lead	mg/L	1.07	<0.0075	1.00	107	70 - 130	X536006 - X5H0466-02	09-Sep-25	
EPA 200.7	Lithium	mg/L	0.998	<0.040	1.00	99.8	70 - 130	X536006 - X5H0466-02	09-Sep-25	
EPA 200.7	Magnesium	mg/L	34.1	11.4	20.0	113	70 - 130	X536006 - X5H0466-02	09-Sep-25	
EPA 200.7	Manganese	mg/L	1.72	0.622	1.00	110	70 - 130	X536006 - X5H0466-02	09-Sep-25	
EPA 200.7	Molybdenum	mg/L	1.14	<0.0080	1.00	114	70 - 130	X536006 - X5H0466-02	09-Sep-25	
EPA 200.7	Nickel	mg/L	1.05	<0.0100	1.00	104	70 - 130	X536006 - X5H0466-02	09-Sep-25	
EPA 200.7	Potassium	mg/L	21.6	1.37	20.0	101	70 - 130	X536006 - X5H0466-02	09-Sep-25	
EPA 200.7	Silver	mg/L	0.0538	<0.0050	0.0500	108	70 - 130	X536006 - X5H0466-02	09-Sep-25	
EPA 200.7	Sodium	mg/L	38.0	16.8	19.0	111	70 - 130	X536006 - X5H0466-02	09-Sep-25	
EPA 200.7	Vanadium	mg/L	1.14	<0.0050	1.00	114	70 - 130	X536006 - X5H0466-02	09-Sep-25	
EPA 200.7	Zinc	mg/L	1.14	0.0133	1.00	113	70 - 130	X536006 - X5H0466-02	09-Sep-25	
EPA 200.8	Antimony	mg/L	0.0241	<0.00500	0.0250	96.6	70 - 130	X536062 - X5H0401-01	05-Sep-25	D17
EPA 200.8	Antimony	mg/L	0.0277	<0.00100	0.0250	111	70 - 130	X536062 - X5H0514-01	09-Sep-25	
EPA 200.8	Arsenic	mg/L	0.184	0.159	0.0250	98.0	70 - 130	X536062 - X5H0401-01	05-Sep-25	D17
EPA 200.8	Arsenic	mg/L	0.0273	<0.00100	0.0250	106	70 - 130	X536062 - X5H0514-01	05-Sep-25	
EPA 200.8	Selenium	mg/L	0.0343	0.0131	0.0250	84.9	70 - 130	X536062 - X5H0401-01	05-Sep-25	D17

SVL holds the following certifications:

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

Work order Report Page 10 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: **X5H0468**

Reported: 11-Sep-25 18:03

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	Selenium	mg/L	0.0274	<0.00100	0.0250	106	70 - 130	X536062 - X5H0514-01	05-Sep-25	
EPA 200.8	Thallium	mg/L	0.0244	<0.00100	0.0250	97.7	70 - 130	X536062 - X5H0401-01	05-Sep-25	D17
EPA 200.8	Thallium	mg/L	0.0250	<0.000200	0.0250	99.8	70 - 130	X536062 - X5H0514-01	05-Sep-25	
EPA 200.8	Uranium	mg/L	1.52	1.50	0.0250	74.4	70 - 130	X536062 - X5H0401-01	09-Sep-25	D17
EPA 200.8	Uranium	mg/L	0.0307	0.00218	0.0250	114	70 - 130	X536062 - X5H0514-01	09-Sep-25	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00207	<0.000200	0.00200	103	70 - 130	X536025 - X5H0439-01	03-Sep-25	
EPA 245.1	Mercury	mg/L	0.00217	<0.000200	0.00200	109	70 - 130	X536025 - X5H0491-01	03-Sep-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.101	<0.0050	0.100	101	79 - 121	X537010 - X5I0005-01	09-Sep-25	
EPA 335.4	Cyanide (total)	mg/L	0.0996	<0.0050	0.100	99.6	90 - 110	X535007 - X5H0355-03	03-Sep-25	
EPA 335.4	Cyanide (total)	mg/L	0.153	0.0535	0.100	99.5	90 - 110	X535007 - X5H0355-06	03-Sep-25	
EPA 350.1	Ammonia as N	mg/L	0.984	<0.030	1.00	96.6	90 - 110	X535183 - X5H0440-01	29-Aug-25	
EPA 350.1	Ammonia as N	mg/L	0.992	<0.030	1.00	97.3	90 - 110	X535183 - X5H0468-02	29-Aug-25	
OIA 1677	Cyanide (WAD)	mg/L	0.0907	<0.0050	0.100	90.7	82 - 118	X536057 - X5H0468-01	08-Sep-25	R2B
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	5.24	2.14	3.00	103	90 - 110	X535147 - X5H0476-01	27-Aug-25	
EPA 300.0	Fluoride	mg/L	2.03	<0.100	2.00	96.4	90 - 110	X535147 - X5H0476-01	27-Aug-25	
EPA 300.0	Nitrate as N	mg/L	2.58	0.549	2.00	102	90 - 110	X535147 - X5H0476-01	27-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.60	0.549	4.00	101	90 - 110	X535147 - X5H0476-01	27-Aug-25	
EPA 300.0	Nitrite as N	mg/L	2.02	<0.050	2.00	101	90 - 110	X535147 - X5H0476-01	27-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	24.2	13.7	10.0	104	90 - 110	X535147 - X5H0476-01	27-Aug-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	65.2	65.1	20.0	0.3	20	98	X536029 - X5H0411-01	
EPA 200.7	Magnesium	mg/L	30.6	30.3	20.0	0.8	20	101	X536029 - X5H0411-01	
EPA 200.7	Potassium	mg/L	22.1	22.0	20.0	0.7	20	98.5	X536029 - X5H0411-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.18	1.18	1.00	0.1	20	113	X536006 - X5H0466-02	
EPA 200.7	Barium	mg/L	1.21	1.19	1.00	1.3	20	110	X536006 - X5H0466-02	
EPA 200.7	Beryllium	mg/L	1.12	1.12	1.00	0.4	20	112	X536006 - X5H0466-02	
EPA 200.7	Boron	mg/L	1.07	1.05	1.00	2.5	20	105	X536006 - X5H0466-02	
EPA 200.7	Cadmium	mg/L	1.07	1.06	1.00	0.2	20	107	X536006 - X5H0466-02	
EPA 200.7	Calcium	mg/L	73.4	73.0	20.0	0.5	20	114	X536006 - X5H0466-02	
EPA 200.7	Chromium	mg/L	1.11	1.11	1.00	0.0	20	111	X536006 - X5H0466-02	
EPA 200.7	Cobalt	mg/L	1.05	1.05	1.00	0.2	20	105	X536006 - X5H0466-02	
EPA 200.7	Copper	mg/L	1.07	1.07	1.00	0.2	20	107	X536006 - X5H0466-02	
EPA 200.7	Iron	mg/L	13.7	13.7	10.0	0.6	20	115	X536006 - X5H0466-02	
EPA 200.7	Lead	mg/L	1.07	1.07	1.00	0.3	20	107	X536006 - X5H0466-02	
EPA 200.7	Lithium	mg/L	1.03	0.998	1.00	3.0	20	103	X536006 - X5H0466-02	
EPA 200.7	Magnesium	mg/L	34.3	34.1	20.0	0.8	20	115	X536006 - X5H0466-02	
EPA 200.7	Manganese	mg/L	1.72	1.72	1.00	0.1	20	110	X536006 - X5H0466-02	
EPA 200.7	Molybdenum	mg/L	1.14	1.14	1.00	0.3	20	114	X536006 - X5H0466-02	
EPA 200.7	Nickel	mg/L	1.05	1.05	1.00	0.1	20	104	X536006 - X5H0466-02	

SVL holds the following certifications:

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

Work order Report Page 11 of 13



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net**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: **X5H0468**

Reported: 11-Sep-25 18:03

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	Potassium	mg/L	21.9	21.6	20.0	1.3	20	102	X536006 - X5H0466-02	
EPA 200.7	Silver	mg/L	0.0541	0.0538	0.0500	0.5	20	108	X536006 - X5H0466-02	
EPA 200.7	Sodium	mg/L	38.2	38.0	19.0	0.6	20	112	X536006 - X5H0466-02	
EPA 200.7	Vanadium	mg/L	1.13	1.14	1.00	0.3	20	113	X536006 - X5H0466-02	
EPA 200.7	Zinc	mg/L	1.15	1.14	1.00	0.2	20	113	X536006 - X5H0466-02	
EPA 200.8	Antimony	mg/L	0.0244	0.0241	0.0250	1.1	20	97.6	X536062 - X5H0401-01	D17
EPA 200.8	Arsenic	mg/L	0.181	0.184	0.0250	1.8	20	84.8	X536062 - X5H0401-01	D17
EPA 200.8	Selenium	mg/L	0.0340	0.0343	0.0250	1.1	20	83.4	X536062 - X5H0401-01	D17
EPA 200.8	Thallium	mg/L	0.0238	0.0244	0.0250	2.6	20	95.2	X536062 - X5H0401-01	D17
EPA 200.8	Uranium	mg/L	1.59	1.52	0.0250	4.7	20	0.30R>S	X536062 - X5H0401-01	D17,M4
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00210	0.00207	0.00200	1.5	20	105	X536025 - X5H0439-01	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0996	0.101	0.100	1.5	11	99.6	X537010 - X5I0005-01	
EPA 335.4	Cyanide (total)	mg/L	0.102	0.0996	0.100	2.6	20	102	X535007 - X5H0355-03	
EPA 350.1	Ammonia as N	mg/L	0.976	0.984	1.00	0.8	20	95.8	X535183 - X5H0440-01	
OIA 1677	Cyanide (WAD)	mg/L	0.114	0.0907	0.100	23.1	11	114	X536057 - X5H0468-01	R2B
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	5.27	5.24	3.00	0.5	20	104	X535147 - X5H0476-01	
EPA 300.0	Fluoride	mg/L	2.05	2.03	2.00	1.3	20	97.7	X535147 - X5H0476-01	
EPA 300.0	Nitrate as N	mg/L	2.61	2.58	2.00	1.2	20	103	X535147 - X5H0476-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.68	4.60	4.00	1.8	20	103	X535147 - X5H0476-01	
EPA 300.0	Nitrite as N	mg/L	2.07	2.02	2.00	2.4	20	104	X535147 - X5H0476-01	
EPA 300.0	Sulfate as SO4	mg/L	24.2	24.2	10.0	0.2	20	105	X535147 - X5H0476-01	



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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: **X5H0468**

Reported: 11-Sep-25 18:03

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.
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.
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: **X5H0466**

Reported: 11-Sep-25 16:42

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GV-06	X5H0466-01	Surface Water	26-Aug-25 08:45	JC	27-Aug-2025	
GV-4.5	X5H0466-02	Surface Water	26-Aug-25 08:58	JC	27-Aug-2025	
GV-05	X5H0466-03	Surface Water	26-Aug-25 09:17	JC	27-Aug-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: X5H0466

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: **X5H0466**

Reported: 11-Sep-25 16:42

Client Sample ID: **GV-06**

Sampled: 26-Aug-25 08:45

Received: 27-Aug-25

Sampled By: JC

SVL Sample ID: **X5H0466-01 (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	1.67	ng/L	0.500	0.120		X536035	SJN	09/02/25 17:41	
EPA 245.1	Mercury	< 0.000093	mg/L	0.000200	0.000093		X536021	SJN	09/03/25 16:29	B10,U

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

EPA 200.7	Barium	0.126	mg/L	0.0020	0.0019		X536143	SJN	09/08/25 09:21	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X536143	SJN	09/08/25 09:21	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X536143	SJN	09/08/25 09:21	
EPA 200.7	Calcium	46.1	mg/L	0.100	0.069		X536143	SJN	09/08/25 09:21	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X536143	SJN	09/08/25 09:21	
EPA 200.7	Iron	1.70	mg/L	0.100	0.056		X536143	SJN	09/08/25 09:21	
EPA 200.7	Magnesium	10.5	mg/L	0.500	0.090		X536143	SJN	09/08/25 09:21	
EPA 200.7	Manganese	0.728	mg/L	0.0080	0.0034		X536143	SJN	09/08/25 09:21	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X536143	SJN	09/08/25 09:21	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X536143	SJN	09/08/25 09:21	
EPA 200.7	Phosphorus	0.077	mg/L	0.050	0.013		X536143	SJN	09/08/25 09:21	
EPA 200.7	Potassium	2.05	mg/L	0.50	0.18		X536143	SJN	09/08/25 09:21	
EPA 200.7	Sodium	14.0	mg/L	0.50	0.12		X536143	SJN	09/08/25 09:21	
EPA 200.7	Zinc	0.0153	mg/L	0.0100	0.0054		X536143	SJN	09/08/25 09:21	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X536149	SMU	09/09/25 16:14	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X536149	SMU	09/09/25 16:14	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X536149	SMU	09/09/25 16:14	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X536149	SMU	09/09/25 16:14	
EPA 200.8	Copper	0.00143	mg/L	0.00040	0.00036		X536149	SMU	09/09/25 16:14	
EPA 200.8	Lead	0.00097	mg/L	0.00020	0.00014		X537109	SMU	09/11/25 10:16	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X536149	SMU	09/09/25 16:14	
SM 2340 B	Hardness (as CaCO3)	167	mg/L	2.31	0.543		N/A		09/08/25 09:21	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X536006	SJN	09/09/25 16:21	
EPA 200.7	Barium	0.124	mg/L	0.0020	0.0019		X536006	SJN	09/09/25 16:21	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X536006	SJN	09/09/25 16:21	
EPA 200.7	Calcium	53.5	mg/L	0.100	0.069		X536006	SJN	09/09/25 16:21	
EPA 200.7	Iron	0.337	mg/L	0.100	0.056		X536006	SJN	09/09/25 16:21	
EPA 200.7	Magnesium	12.5	mg/L	0.500	0.090		X536006	SJN	09/09/25 16:21	
EPA 200.7	Manganese	0.597	mg/L	0.0080	0.0034		X536006	SJN	09/09/25 16:21	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X536006	SJN	09/09/25 16:21	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X536006	SJN	09/09/25 16:21	
EPA 200.7	Potassium	2.11	mg/L	0.50	0.18		X536006	SJN	09/09/25 17:55	
EPA 200.7	Sodium	15.4	mg/L	0.50	0.12		X536006	SJN	09/09/25 16:21	
EPA 200.7	Zinc	0.0109	mg/L	0.0100	0.0054		X536006	SJN	09/09/25 16:21	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X536061	NMS	09/05/25 10:07	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X536061	NMS	09/05/25 10:07	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X536061	NMS	09/05/25 10:07	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X536061	NMS	09/05/25 10:07	
EPA 200.8	Copper	0.00048	mg/L	0.00040	0.00036		X536061	NMS	09/05/25 10:07	
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X536061	NMS	09/05/25 10:07	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X536061	NMS	09/05/25 10:07	
EPA 200.8	Silver	< 0.00008	mg/L	0.00008	0.000061		X536061	NMS	09/05/25 10:07	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X536061	NMS	09/05/25 10:07	
EPA 200.8	Uranium	0.00112	mg/L	0.000100	0.000052		X536061	NMS	09/05/25 10:07	

SVL holds the following certifications:

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

Work order Report Page 2 of 15



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Kellogg, ID 83837-0929

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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: **X5H0466**

Reported: 11-Sep-25 16:42

Client Sample ID: **GV-06**

Sampled: 26-Aug-25 08:45

Received: 27-Aug-25

Sampled By: JC

SVL Sample ID: **X5H0466-01 (Surface Water)****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		X537010	ORW	09/09/25 18:28	
Calculation	Chromium(III)	< 0.0110	mg/L	0.0110	0.00390		N/A		09/09/25 15:15	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X535007	JPM	09/03/25 09:35	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X535184	ORW	08/29/25 16:44	
EPA 351.2	TKN	0.56	mg/L	0.50	0.31		X536054	ORW	09/04/25 14:04	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X536057	JPM	09/08/25 15:47	
SM 2310 B	Acidity to pH 8.3	-95.4	mg/L as CaCO ₃	10.0			X537017	MWD	09/08/25 11:12	
SM 2320 B	Total Alkalinity	91.7	mg/L as CaCO ₃	1.0			X535168	MWD	08/28/25 17:47	
SM 2320 B	Bicarbonate	91.7	mg/L as CaCO ₃	1.0			X535168	MWD	08/28/25 17:47	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X535168	MWD	08/28/25 17:47	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO ₃	1.0			X535168	MWD	08/28/25 17:47	
SM 2540 C	Total Diss. Solids	282	mg/L	10			X535226	TJL	09/02/25 13:25	
SM 2540 D	Total Susp. Solids	22.0	mg/L	5.0			X535228	TJL	09/02/25 13:00	
SM 4500 H B	pH @22.0°C	7.6	pH Units				X535168	MWD	08/28/25 17:47	H5
SM 4500 S D	Sulfide	< 0.050	mg/L	0.050	0.020		X535220	CND	08/29/25 11:42	
SM 4500-O-G	Dissolved Oxygen	8.7	mg/L	0.1			X535229	TJL	08/29/25 12:00	H5

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	< 0.0050	mg/L	0.0050	0.0019		X537066	CND	09/09/25 15:15	
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Filtered Classical Chemistry Parameters

Calculation	Chromium(III)-Dissolved	< 0.00600	mg/L	0.00600	0.00207		N/A		09/09/25 15:15	
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Anions by Ion Chromatography

EPA 300.0	Chloride	6.55	mg/L	0.20	0.02		X535147	RS	08/27/25 15:59	
EPA 300.0	Fluoride	0.541	mg/L	0.100	0.017		X535147	RS	08/27/25 15:59	
EPA 300.0	Nitrate as N	0.188	mg/L	0.050	0.013		X535147	RS	08/27/25 15:59	
EPA 300.0	Nitrate+Nitrite as N	0.195	mg/L	0.100	0.044		X535147	RS	08/27/25 15:59	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X535147	RS	08/27/25 15:59	
EPA 300.0	Sulfate as SO₄	96.0	mg/L	3.00	1.80	10	X535147	RS	08/27/25 16:15	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.87 meq/L Anion Sum: 4.06 meq/L C/A Balance: -2.39 % Calculated TDS: 237 TDS/cTDS: 1.19

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

Kristi A. Groth

Kristi A. Groth

Project Manager



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

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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: **X5H0466**

Reported: 11-Sep-25 16:42

Client Sample ID: **GV-4.5**

Sampled: 26-Aug-25 08:58

Received: 27-Aug-25

Sampled By: JC

SVL Sample ID: **X5H0466-02 (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	< 0.500	ng/L	0.500	0.120		X536035	SJN	09/02/25 17:46	
EPA 245.1	Mercury	< 0.000093	mg/L	0.000200	0.000093		X536021	SJN	09/03/25 16:31	B10,U

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

EPA 200.7	Barium	0.102	mg/L	0.0020	0.0019		X536143	SJN	09/08/25 09:32	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X536143	SJN	09/08/25 09:32	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X536143	SJN	09/08/25 09:32	
EPA 200.7	Calcium	44.6	mg/L	0.100	0.069		X536143	SJN	09/08/25 09:32	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X536143	SJN	09/08/25 09:32	
EPA 200.7	Iron	7.48	mg/L	0.100	0.056		X536143	SJN	09/08/25 09:32	
EPA 200.7	Magnesium	10.0	mg/L	0.500	0.090		X536143	SJN	09/08/25 09:32	
EPA 200.7	Manganese	0.549	mg/L	0.0080	0.0034		X536143	SJN	09/08/25 09:32	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X536143	SJN	09/08/25 09:32	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X536143	SJN	09/08/25 09:32	
EPA 200.7	Phosphorus	0.186	mg/L	0.050	0.013		X536143	SJN	09/08/25 09:32	
EPA 200.7	Potassium	1.34	mg/L	0.50	0.18		X536143	SJN	09/08/25 09:32	
EPA 200.7	Sodium	14.9	mg/L	0.50	0.12		X536143	SJN	09/08/25 09:32	
EPA 200.7	Zinc	0.0122	mg/L	0.0100	0.0054		X536143	SJN	09/08/25 09:32	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X536149	SMU	09/09/25 16:17	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X536149	SMU	09/09/25 16:17	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X536149	SMU	09/09/25 16:17	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X536149	SMU	09/09/25 16:17	
EPA 200.8	Copper	0.00103	mg/L	0.00040	0.00036		X536149	SMU	09/09/25 16:17	
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X537109	SMU	09/11/25 10:20	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X536149	SMU	09/09/25 16:17	
SM 2340 B	Hardness (as CaCO3)	168	mg/L	2.31	0.543		N/A		09/09/25 16:23	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X536006	SJN	09/09/25 16:23	
EPA 200.7	Barium	0.108	mg/L	0.0020	0.0019		X536006	SJN	09/09/25 16:23	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X536006	SJN	09/09/25 16:23	
EPA 200.7	Calcium	50.6	mg/L	0.100	0.069		X536006	SJN	09/09/25 16:23	
EPA 200.7	Iron	2.28	mg/L	0.100	0.056		X536006	SJN	09/09/25 16:23	
EPA 200.7	Magnesium	11.4	mg/L	0.500	0.090		X536006	SJN	09/09/25 16:23	
EPA 200.7	Manganese	0.622	mg/L	0.0080	0.0034		X536006	SJN	09/09/25 16:23	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X536006	SJN	09/09/25 16:23	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X536006	SJN	09/09/25 16:23	
EPA 200.7	Potassium	1.37	mg/L	0.50	0.18		X536006	SJN	09/09/25 17:57	
EPA 200.7	Sodium	16.8	mg/L	0.50	0.12		X536006	SJN	09/09/25 16:23	
EPA 200.7	Zinc	0.0133	mg/L	0.0100	0.0054		X536006	SJN	09/09/25 16:23	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X536061	NMS	09/05/25 10:10	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X536061	NMS	09/05/25 10:10	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X536061	NMS	09/05/25 10:10	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X536061	NMS	09/05/25 10:10	
EPA 200.8	Copper	0.00059	mg/L	0.00040	0.00036		X536061	NMS	09/05/25 10:10	
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X536061	NMS	09/05/25 10:10	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X536061	NMS	09/05/25 10:10	
EPA 200.8	Silver	< 0.00008	mg/L	0.00008	0.000061		X536061	NMS	09/05/25 10:10	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X536061	NMS	09/05/25 10:10	
EPA 200.8	Uranium	0.000364	mg/L	0.000100	0.000052		X536061	NMS	09/05/25 10:10	

SVL holds the following certifications:

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

Work order Report Page 4 of 15



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net**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: **X5H0466**

Reported: 11-Sep-25 16:42

Client Sample ID: **GV-4.5**SVL Sample ID: **X5H0466-02 (Surface Water)**

Sampled: 26-Aug-25 08:58

Received: 27-Aug-25

Sampled By: JC

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		X537010	ORW	09/09/25 18:31	
Calculation	Chromium(III)	< 0.0110	mg/L	0.0110	0.00390		N/A		09/09/25 15:15	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X535007	JPM	09/03/25 09:38	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X535184	ORW	08/29/25 16:46	
EPA 351.2	TKN	< 0.50	mg/L	0.50	0.31		X536054	ORW	09/04/25 14:06	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X536057	JPM	09/08/25 15:50	
SM 2310 B	Acidity to pH 8.3	-95.4	mg/L as CaCO ₃	10.0			X537017	MWD	09/08/25 11:12	
SM 2320 B	Total Alkalinity	97.5	mg/L as CaCO ₃	1.0			X535168	MWD	08/28/25 17:52	
SM 2320 B	Bicarbonate	97.5	mg/L as CaCO ₃	1.0			X535168	MWD	08/28/25 17:52	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X535168	MWD	08/28/25 17:52	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO ₃	1.0			X535168	MWD	08/28/25 17:52	
SM 2540 C	Total Diss. Solids	250	mg/L	10			X535226	TJL	09/02/25 13:25	
SM 2540 D	Total Susp. Solids	17.0	mg/L	5.0			X535228	TJL	09/02/25 13:00	
SM 4500 H B	pH @22.0°C	6.7	pH Units				X535168	MWD	08/28/25 17:52	H5
SM 4500 S D	Sulfide	< 0.050	mg/L	0.050	0.020		X535220	CND	08/29/25 11:43	
SM 4500-O-G	Dissolved Oxygen	8.5	mg/L	0.1			X535229	TJL	08/29/25 12:00	H5

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	< 0.0050	mg/L	0.0050	0.0019		X537066	CND	09/09/25 15:15	
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Filtered Classical Chemistry Parameters

Calculation	Chromium(III)-Dissolved	< 0.00600	mg/L	0.00600	0.00207		N/A		09/09/25 15:15	
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Anions by Ion Chromatography

EPA 300.0	Chloride	30.3	mg/L	2.00	0.22	10	X535147	RS	08/27/25 16:46	
EPA 300.0	Fluoride	0.476	mg/L	0.100	0.017		X535147	RS	08/27/25 16:31	
EPA 300.0	Nitrate as N	0.411	mg/L	0.050	0.013		X535147	RS	08/27/25 16:31	
EPA 300.0	Nitrate+Nitrite as N	0.420	mg/L	0.100	0.044		X535147	RS	08/27/25 16:31	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X535147	RS	08/27/25 16:31	
EPA 300.0	Sulfate as SO₄	53.8	mg/L	3.00	1.80	10	X535147	RS	08/27/25 16:46	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.84 meq/L Anion Sum: 3.98 meq/L C/A Balance: -1.75 % Calculated TDS: 220 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: **X5H0466**

Reported: 11-Sep-25 16:42

Client Sample ID: **GV-05**

Sampled: 26-Aug-25 09:17

Received: 27-Aug-25

Sampled By: JC

SVL Sample ID: **X5H0466-03 (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	1.59	ng/L	0.500	0.120		X536035	SJN	09/02/25 17:51	
EPA 245.1	Mercury	< 0.000093	mg/L	0.000200	0.000093		X536021	SJN	09/03/25 16:38	U,B10

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

EPA 200.7	Barium	0.0490	mg/L	0.0020	0.0019		X536143	SJN	09/08/25 09:36	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X536143	SJN	09/08/25 09:36	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X536143	SJN	09/08/25 09:36	
EPA 200.7	Calcium	42.9	mg/L	0.100	0.069		X536143	SJN	09/08/25 09:36	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X536143	SJN	09/08/25 09:36	
EPA 200.7	Iron	1.37	mg/L	0.100	0.056		X536143	SJN	09/08/25 09:36	
EPA 200.7	Magnesium	10.2	mg/L	0.500	0.090		X536143	SJN	09/08/25 09:36	
EPA 200.7	Manganese	0.482	mg/L	0.0080	0.0034		X536143	SJN	09/08/25 09:36	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X536143	SJN	09/08/25 09:36	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X536143	SJN	09/08/25 09:36	
EPA 200.7	Phosphorus	0.067	mg/L	0.050	0.013		X536143	SJN	09/08/25 09:36	
EPA 200.7	Potassium	2.92	mg/L	0.50	0.18		X536143	SJN	09/08/25 09:36	
EPA 200.7	Sodium	13.9	mg/L	0.50	0.12		X536143	SJN	09/08/25 09:36	
EPA 200.7	Zinc	0.0117	mg/L	0.0100	0.0054		X536143	SJN	09/08/25 09:36	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X536149	SMU	09/09/25 16:20	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X536149	SMU	09/09/25 16:20	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X536149	SMU	09/09/25 16:20	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X536149	SMU	09/09/25 16:20	
EPA 200.8	Copper	0.00106	mg/L	0.00040	0.00036		X536149	SMU	09/09/25 16:20	
EPA 200.8	Lead	0.00047	mg/L	0.00020	0.00014		X537109	SMU	09/11/25 10:23	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X536149	SMU	09/09/25 16:20	
SM 2340 B	Hardness (as CaCO3)	174	mg/L	2.31	0.543		N/A		09/08/25 09:36	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X536006	SJN	09/09/25 16:29	
EPA 200.7	Barium	0.0470	mg/L	0.0020	0.0019		X536006	SJN	09/09/25 16:29	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X536006	SJN	09/09/25 16:29	
EPA 200.7	Calcium	49.8	mg/L	0.100	0.069		X536006	SJN	09/09/25 16:29	
EPA 200.7	Iron	0.218	mg/L	0.100	0.056		X536006	SJN	09/09/25 16:29	
EPA 200.7	Magnesium	12.0	mg/L	0.500	0.090		X536006	SJN	09/09/25 16:29	
EPA 200.7	Manganese	0.337	mg/L	0.0080	0.0034		X536006	SJN	09/09/25 16:29	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X536006	SJN	09/09/25 16:29	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X536006	SJN	09/09/25 16:29	
EPA 200.7	Potassium	3.02	mg/L	0.50	0.18		X536006	SJN	09/09/25 18:03	
EPA 200.7	Sodium	16.7	mg/L	0.50	0.12		X536006	SJN	09/09/25 16:29	
EPA 200.7	Zinc	0.0138	mg/L	0.0100	0.0054		X536006	SJN	09/09/25 16:29	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X536061	NMS	09/05/25 10:13	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X536061	NMS	09/05/25 10:13	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X536061	NMS	09/05/25 10:13	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X536061	NMS	09/05/25 10:13	
EPA 200.8	Copper	0.00069	mg/L	0.00040	0.00036		X536061	NMS	09/05/25 10:13	
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X536061	NMS	09/05/25 10:13	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X536061	NMS	09/05/25 10:13	
EPA 200.8	Silver	< 0.00008	mg/L	0.00008	0.000061		X536061	NMS	09/05/25 10:13	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X536061	NMS	09/05/25 10:13	
EPA 200.8	Uranium	0.000502	mg/L	0.000100	0.000052		X536061	NMS	09/05/25 10:13	

SVL holds the following certifications:

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

Work order Report Page 6 of 15



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net

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: **X5H0466**

Reported: 11-Sep-25 16:42

Client Sample ID: **GV-05**

Sampled: 26-Aug-25 09:17

SVL Sample ID: **X5H0466-03 (Surface Water)**

Received: 27-Aug-25

Sampled By: JC

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		X537010	ORW	09/09/25 18:47	
Calculation	Chromium(III)	< 0.0110	mg/L	0.0110	0.00390		N/A		09/09/25 15:15	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X535007	JPM	09/03/25 09:39	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X535184	ORW	08/29/25 16:48	
EPA 351.2	TKN	0.50	mg/L	0.50	0.31		X536054	ORW	09/04/25 14:09	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X536057	JPM	09/08/25 15:53	
SM 2310 B	Acidity to pH 8.3	-86.2	mg/L as CaCO ₃	10.0			X537017	MWD	09/08/25 11:12	
SM 2320 B	Total Alkalinity	81.4	mg/L as CaCO ₃	1.0			X535168	MWD	08/28/25 17:58	
SM 2320 B	Bicarbonate	81.4	mg/L as CaCO ₃	1.0			X535168	MWD	08/28/25 17:58	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X535168	MWD	08/28/25 17:58	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO ₃	1.0			X535168	MWD	08/28/25 17:58	
SM 2540 C	Total Diss. Solids	249	mg/L	10			X535226	TJL	09/02/25 13:25	
SM 2540 D	Total Susp. Solids	9.0	mg/L	5.0			X535228	TJL	09/02/25 13:00	
SM 4500 H B	pH @22.0°C	7.8	pH Units				X535168	MWD	08/28/25 17:58	H5
SM 4500 S D	Sulfide	< 0.050	mg/L	0.050	0.020		X535220	CND	08/29/25 11:44	
SM 4500-O-G	Dissolved Oxygen	8.2	mg/L	0.1			X535229	TJL	08/29/25 12:00	H5

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	< 0.0050	mg/L	0.0050	0.0019		X537066	CND	09/09/25 15:15	
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Filtered Classical Chemistry Parameters

Calculation	Chromium(III)-Dissolved	< 0.00600	mg/L	0.00600	0.00207		N/A		09/09/25 15:15	
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Anions by Ion Chromatography

EPA 300.0	Chloride	11.6	mg/L	0.20	0.02		X535147	RS	08/27/25 17:02	
EPA 300.0	Fluoride	0.609	mg/L	0.100	0.017		X535147	RS	08/27/25 17:02	
EPA 300.0	Nitrate as N	0.052	mg/L	0.050	0.013		X535147	RS	08/27/25 17:02	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X535147	RS	08/27/25 17:02	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X535147	RS	08/27/25 17:02	
EPA 300.0	Sulfate as SO₄	88.9	mg/L	3.00	1.80	10	X535147	RS	08/27/25 17:17	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.69 meq/L Anion Sum: 3.84 meq/L C/A Balance: -2.02 % Calculated TDS: 226 TDS/cTDS: 1.10

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: **X5H0466**

Reported: 11-Sep-25 16:42

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	X536035	02-Sep-25	
EPA 1631E	Mercury	ng/L	<0.500	0.120	0.500	X536035	02-Sep-25	
EPA 1631E	Mercury	ng/L	<0.500	0.120	0.500	X536035	02-Sep-25	
EPA 245.1	Mercury	mg/L	0.000108	0.000093	0.000200	X536021	03-Sep-25	B10,J
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X536143	08-Sep-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X536143	08-Sep-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X536143	08-Sep-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X536143	08-Sep-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X536143	08-Sep-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X536143	08-Sep-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X536143	08-Sep-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X536143	08-Sep-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X536143	08-Sep-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X536143	08-Sep-25	
EPA 200.7	Phosphorus	mg/L	<0.050	0.013	0.050	X536143	08-Sep-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X536143	08-Sep-25	
EPA 200.7	Sodium	mg/L	<0.12	0.12	0.50	X536143	08-Sep-25	U
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X536143	08-Sep-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X536149	09-Sep-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X536149	09-Sep-25	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X536149	09-Sep-25	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X536149	09-Sep-25	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X536149	09-Sep-25	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X537109	11-Sep-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X536149	09-Sep-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X536006	09-Sep-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X536006	09-Sep-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X536006	09-Sep-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X536006	09-Sep-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X536006	09-Sep-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X536006	09-Sep-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X536006	09-Sep-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X536006	09-Sep-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X536006	09-Sep-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X536006	09-Sep-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X536006	09-Sep-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X536006	09-Sep-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X536061	05-Sep-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X536061	05-Sep-25	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X536061	05-Sep-25	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X536061	05-Sep-25	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X536061	05-Sep-25	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X536061	05-Sep-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X536061	05-Sep-25	
EPA 200.8	Silver	mg/L	<0.00008	0.000061	0.00008	X536061	05-Sep-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X536061	05-Sep-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X536061	05-Sep-25	
Classical Chemistry Parameters								
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X537010	09-Sep-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X535007	03-Sep-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X535184	29-Aug-25	
EPA 351.2	TKN	mg/L	<0.50	0.31	0.50	X536054	04-Sep-25	

SVL holds the following certifications:

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

Work order Report Page 8 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: **X5H0466**

Reported: 11-Sep-25 16:42

Quality Control - BLANK Data (Continued)

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

OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X536057	08-Sep-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X537017	08-Sep-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X535168	28-Aug-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X535168	28-Aug-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X535168	28-Aug-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X535168	28-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X535226	02-Sep-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X535228	02-Sep-25	
SM 4500 S D	Sulfide	mg/L	<0.050	0.020	0.050	X535220	29-Aug-25	

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	mg/L	<0.0050	0.0019	0.0050	X537066	09-Sep-25	
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Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X535147	27-Aug-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X535147	27-Aug-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X535147	27-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X535147	27-Aug-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X535147	27-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X535147	27-Aug-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	4.69	5.00	93.7	77 - 123	X536035	02-Sep-25	
EPA 245.1	Mercury	mg/L	0.00212	0.00200	106	85 - 115	X536021	03-Sep-25	B10

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

EPA 200.7	Barium	mg/L	0.928	1.00	92.8	85 - 115	X536143	08-Sep-25	
EPA 200.7	Beryllium	mg/L	0.922	1.00	92.2	85 - 115	X536143	08-Sep-25	
EPA 200.7	Boron	mg/L	0.960	1.00	96.0	85 - 115	X536143	08-Sep-25	
EPA 200.7	Calcium	mg/L	19.3	20.0	96	85 - 115	X536143	08-Sep-25	
EPA 200.7	Chromium	mg/L	0.935	1.00	93.5	85 - 115	X536143	08-Sep-25	
EPA 200.7	Iron	mg/L	9.60	10.0	96.0	85 - 115	X536143	08-Sep-25	
EPA 200.7	Magnesium	mg/L	19.1	20.0	95.3	85 - 115	X536143	08-Sep-25	
EPA 200.7	Manganese	mg/L	0.930	1.00	93.0	85 - 115	X536143	08-Sep-25	
EPA 200.7	Molybdenum	mg/L	0.941	1.00	94.1	85 - 115	X536143	08-Sep-25	
EPA 200.7	Nickel	mg/L	0.885	1.00	88.5	85 - 115	X536143	08-Sep-25	
EPA 200.7	Phosphorus	mg/L	0.966	1.00	96.6	85 - 115	X536143	08-Sep-25	
EPA 200.7	Potassium	mg/L	19.0	20.0	95.1	85 - 115	X536143	08-Sep-25	
EPA 200.7	Sodium	mg/L	18.1	19.0	95.4	85 - 115	X536143	08-Sep-25	
EPA 200.7	Zinc	mg/L	0.909	1.00	90.9	85 - 115	X536143	08-Sep-25	
EPA 200.8	Antimony	mg/L	0.0223	0.0250	89.4	85 - 115	X536149	09-Sep-25	
EPA 200.8	Arsenic	mg/L	0.0228	0.0250	91.0	85 - 115	X536149	09-Sep-25	
EPA 200.8	Cadmium	mg/L	0.0225	0.0250	89.8	85 - 115	X536149	09-Sep-25	
EPA 200.8	Chromium	mg/L	0.0228	0.0250	91.1	85 - 115	X536149	09-Sep-25	
EPA 200.8	Copper	mg/L	0.0231	0.0250	92.4	85 - 115	X536149	09-Sep-25	
EPA 200.8	Lead	mg/L	0.0226	0.0250	90.3	85 - 115	X537109	11-Sep-25	
EPA 200.8	Selenium	mg/L	0.0225	0.0250	90.0	85 - 115	X536149	09-Sep-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.05	1.00	105	85 - 115	X536006	09-Sep-25	
EPA 200.7	Barium	mg/L	1.02	1.00	102	85 - 115	X536006	09-Sep-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: **X5H0466**

Reported: 11-Sep-25 16:42

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

Metals (Dissolved) (Continued)

EPA 200.7	Beryllium	mg/L	1.04	1.00	104	85 - 115	X536006	09-Sep-25	
EPA 200.7	Calcium	mg/L	20.7	20.0	104	85 - 115	X536006	09-Sep-25	
EPA 200.7	Iron	mg/L	10.6	10.0	106	85 - 115	X536006	09-Sep-25	
EPA 200.7	Magnesium	mg/L	20.4	20.0	102	85 - 115	X536006	09-Sep-25	
EPA 200.7	Manganese	mg/L	1.03	1.00	103	85 - 115	X536006	09-Sep-25	
EPA 200.7	Molybdenum	mg/L	1.06	1.00	106	85 - 115	X536006	09-Sep-25	
EPA 200.7	Nickel	mg/L	0.985	1.00	98.5	85 - 115	X536006	09-Sep-25	
EPA 200.7	Potassium	mg/L	19.7	20.0	98.5	85 - 115	X536006	09-Sep-25	
EPA 200.7	Sodium	mg/L	19.8	19.0	104	85 - 115	X536006	09-Sep-25	
EPA 200.7	Zinc	mg/L	1.04	1.00	104	85 - 115	X536006	09-Sep-25	
EPA 200.8	Antimony	mg/L	0.0232	0.0250	92.9	85 - 115	X536061	05-Sep-25	
EPA 200.8	Arsenic	mg/L	0.0238	0.0250	95.1	85 - 115	X536061	05-Sep-25	
EPA 200.8	Cadmium	mg/L	0.0241	0.0250	96.4	85 - 115	X536061	05-Sep-25	
EPA 200.8	Chromium	mg/L	0.0229	0.0250	91.6	85 - 115	X536061	05-Sep-25	
EPA 200.8	Copper	mg/L	0.0231	0.0250	92.5	85 - 115	X536061	05-Sep-25	
EPA 200.8	Lead	mg/L	0.0235	0.0250	94.2	85 - 115	X536061	05-Sep-25	
EPA 200.8	Selenium	mg/L	0.0256	0.0250	102	85 - 115	X536061	05-Sep-25	
EPA 200.8	Silver	mg/L	0.0228	0.0250	91.3	85 - 115	X536061	05-Sep-25	
EPA 200.8	Thallium	mg/L	0.0239	0.0250	95.7	85 - 115	X536061	05-Sep-25	
EPA 200.8	Uranium	mg/L	0.0238	0.0250	95.1	85 - 115	X536061	05-Sep-25	

Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0978	0.100	97.8	90 - 110	X537010	09-Sep-25	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.100	103	90 - 110	X535007	03-Sep-25	
EPA 350.1	Ammonia as N	mg/L	0.962	1.00	96.2	90 - 110	X535184	29-Aug-25	
EPA 351.2	TKN	mg/L	7.79	8.00	97.3	90 - 110	X536054	04-Sep-25	
OIA 1677	Cyanide (WAD)	mg/L	0.0991	0.100	99.1	90 - 110	X536057	08-Sep-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1210	1180	102	95.4 - 104	X537017	08-Sep-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.0	9.93	101	94 - 106	X535168	28-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	99.9	99.3	101	94 - 106	X535168	28-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	400	397	101	94 - 106	X535168	28-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	245	250	98.0	85 - 115	X535226	02-Sep-25	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X535228	02-Sep-25	
SM 4500 S D	Sulfide	mg/L	0.526	0.500	105	85 - 115	X535220	29-Aug-25	

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0998	0.100	99.8	80 - 120	X537066	09-Sep-25	
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Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.00	3.00	100	90 - 110	X535147	27-Aug-25	
EPA 300.0	Fluoride	mg/L	1.96	2.00	97.9	90 - 110	X535147	27-Aug-25	
EPA 300.0	Nitrate as N	mg/L	2.02	2.00	101	90 - 110	X535147	27-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.56	4.50	101	90 - 110	X535147	27-Aug-25	
EPA 300.0	Nitrite as N	mg/L	2.53	2.50	101	90 - 110	X535147	27-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	10.4	10.0	104	90 - 110	X535147	27-Aug-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: **X5H0466**

Reported: 11-Sep-25 16:42

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	X537017 - X5H0466-01	08-Sep-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	557	557	0.0	20	X535168 - X5H0440-01	28-Aug-25	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	557	557	0.0	20	X535168 - X5H0440-01	28-Aug-25	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X535168 - X5H0440-01	28-Aug-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X535168 - X5H0440-01	28-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	220	193	13.1	10	X535226 - X5H0505-03	02-Sep-25	R2B
SM 2540 C	Total Diss. Solids	mg/L	250	250	0.0	10	X535226 - X5H0466-02	02-Sep-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X535228 - X5H0505-03	02-Sep-25	
SM 2540 D	Total Susp. Solids	mg/L	17.0	17.0	0.0	10	X535228 - X5H0466-02	02-Sep-25	
SM 4500 H B	pH @22.1°C	pH Units	7.1	7.0	0.7	20	X535168 - X5H0440-01	28-Aug-25	
SM 4500-O-G	Dissolved Oxygen	mg/L	8.5	8.3	2.4	20	X535229 - X5H0314-01	29-Aug-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	2.95	0.578	2.50	94.9	71 - 125	X536035 - X5H0378-01	02-Sep-25	
EPA 1631E	Mercury	ng/L	2.88	0.527	2.50	94.0	71 - 125	X536035 - X5H0458-01	02-Sep-25	
EPA 245.1	Mercury	mg/L	0.00226	<0.000093	0.00200	113	70 - 130	X536021 - X5H0451-01	03-Sep-25	B10
EPA 245.1	Mercury	mg/L	0.00238	<0.000093	0.00200	119	70 - 130	X536021 - X5H0482-02	03-Sep-25	B10
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	1.06	0.126	1.00	93.1	70 - 130	X536143 - X5H0466-01	08-Sep-25	
EPA 200.7	Beryllium	mg/L	0.980	<0.00200	1.00	98.0	70 - 130	X536143 - X5H0466-01	08-Sep-25	
EPA 200.7	Boron	mg/L	1.01	<0.0400	1.00	99.1	70 - 130	X536143 - X5H0466-01	08-Sep-25	
EPA 200.7	Calcium	mg/L	66.6	46.1	20.0	103	70 - 130	X536143 - X5H0466-01	08-Sep-25	
EPA 200.7	Chromium	mg/L	0.961	<0.0060	1.00	96.1	70 - 130	X536143 - X5H0466-01	08-Sep-25	
EPA 200.7	Iron	mg/L	11.6	1.70	10.0	98.8	70 - 130	X536143 - X5H0466-01	08-Sep-25	
EPA 200.7	Magnesium	mg/L	31.4	10.5	20.0	104	70 - 130	X536143 - X5H0466-01	08-Sep-25	
EPA 200.7	Manganese	mg/L	1.68	0.728	1.00	95.5	70 - 130	X536143 - X5H0466-01	08-Sep-25	
EPA 200.7	Molybdenum	mg/L	0.970	<0.0080	1.00	97.0	70 - 130	X536143 - X5H0466-01	08-Sep-25	
EPA 200.7	Nickel	mg/L	0.902	<0.0100	1.00	90.2	70 - 130	X536143 - X5H0466-01	08-Sep-25	
EPA 200.7	Phosphorus	mg/L	1.07	0.077	1.00	99.3	70 - 130	X536143 - X5H0466-01	08-Sep-25	
EPA 200.7	Potassium	mg/L	21.6	2.05	20.0	97.8	70 - 130	X536143 - X5H0466-01	08-Sep-25	
EPA 200.7	Sodium	mg/L	32.6	14.0	19.0	98.0	70 - 130	X536143 - X5H0466-01	08-Sep-25	
EPA 200.7	Zinc	mg/L	0.945	0.0153	1.00	93.0	70 - 130	X536143 - X5H0466-01	08-Sep-25	
EPA 200.8	Antimony	mg/L	0.0236	<0.00100	0.0250	94.2	70 - 130	X536149 - X5H0466-02	09-Sep-25	
EPA 200.8	Arsenic	mg/L	0.0239	<0.00100	0.0250	92.7	70 - 130	X536149 - X5H0466-02	09-Sep-25	
EPA 200.8	Cadmium	mg/L	0.0233	<0.000100	0.0250	92.8	70 - 130	X536149 - X5H0466-02	09-Sep-25	
EPA 200.8	Chromium	mg/L	0.0236	<0.00100	0.0250	94.2	70 - 130	X536149 - X5H0466-02	09-Sep-25	
EPA 200.8	Copper	mg/L	0.0240	0.00103	0.0250	91.9	70 - 130	X536149 - X5H0466-02	09-Sep-25	
EPA 200.8	Lead	mg/L	0.0234	<0.00020	0.0250	93.7	70 - 130	X537109 - X5H0469-01	11-Sep-25	
EPA 200.8	Selenium	mg/L	0.0237	<0.00100	0.0250	93.4	70 - 130	X536149 - X5H0466-02	09-Sep-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.18	<0.080	1.00	112	70 - 130	X536006 - X5H0466-02	09-Sep-25	
EPA 200.7	Barium	mg/L	1.19	0.108	1.00	108	70 - 130	X536006 - X5H0466-02	09-Sep-25	
EPA 200.7	Beryllium	mg/L	1.12	<0.00200	1.00	112	70 - 130	X536006 - X5H0466-02	09-Sep-25	
EPA 200.7	Calcium	mg/L	73.0	50.6	20.0	112	70 - 130	X536006 - X5H0466-02	09-Sep-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: **X5H0466**

Reported: 11-Sep-25 16:42

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Iron	mg/L	13.7	2.28	10.0	114	70 - 130	X536006 - X5H0466-02	09-Sep-25	
EPA 200.7	Magnesium	mg/L	34.1	11.4	20.0	113	70 - 130	X536006 - X5H0466-02	09-Sep-25	
EPA 200.7	Manganese	mg/L	1.72	0.622	1.00	110	70 - 130	X536006 - X5H0466-02	09-Sep-25	
EPA 200.7	Molybdenum	mg/L	1.14	<0.0080	1.00	114	70 - 130	X536006 - X5H0466-02	09-Sep-25	
EPA 200.7	Nickel	mg/L	1.05	<0.0100	1.00	104	70 - 130	X536006 - X5H0466-02	09-Sep-25	
EPA 200.7	Potassium	mg/L	21.6	1.37	20.0	101	70 - 130	X536006 - X5H0466-02	09-Sep-25	
EPA 200.7	Sodium	mg/L	38.0	16.8	19.0	111	70 - 130	X536006 - X5H0466-02	09-Sep-25	
EPA 200.7	Zinc	mg/L	1.14	0.0133	1.00	113	70 - 130	X536006 - X5H0466-02	09-Sep-25	
EPA 200.8	Antimony	mg/L	0.0257	0.00148	0.0250	97.0	70 - 130	X536061 - X5H0378-01	05-Sep-25	
EPA 200.8	Antimony	mg/L	0.0240	0.00219	0.0250	87.1	70 - 130	X536061 - X5H0487-02	05-Sep-25	
EPA 200.8	Arsenic	mg/L	0.0262	<0.00100	0.0250	105	70 - 130	X536061 - X5H0378-01	05-Sep-25	
EPA 200.8	Arsenic	mg/L	0.0238	<0.00100	0.0250	93.7	70 - 130	X536061 - X5H0487-02	05-Sep-25	
EPA 200.8	Cadmium	mg/L	0.0248	<0.000100	0.0250	99.4	70 - 130	X536061 - X5H0378-01	05-Sep-25	
EPA 200.8	Cadmium	mg/L	0.0224	0.000636	0.0250	87.0	70 - 130	X536061 - X5H0487-02	05-Sep-25	
EPA 200.8	Chromium	mg/L	0.0247	<0.00100	0.0250	97.7	70 - 130	X536061 - X5H0378-01	05-Sep-25	
EPA 200.8	Chromium	mg/L	0.0223	<0.00100	0.0250	88.0	70 - 130	X536061 - X5H0487-02	05-Sep-25	
EPA 200.8	Copper	mg/L	0.0251	0.00125	0.0250	95.3	70 - 130	X536061 - X5H0378-01	05-Sep-25	
EPA 200.8	Copper	mg/L	0.0231	0.00257	0.0250	82.3	70 - 130	X536061 - X5H0487-02	05-Sep-25	
EPA 200.8	Lead	mg/L	0.0254	<0.00020	0.0250	101	70 - 130	X536061 - X5H0378-01	05-Sep-25	
EPA 200.8	Lead	mg/L	0.0222	<0.00020	0.0250	88.9	70 - 130	X536061 - X5H0487-02	05-Sep-25	
EPA 200.8	Selenium	mg/L	0.0275	<0.00100	0.0250	107	70 - 130	X536061 - X5H0378-01	05-Sep-25	
EPA 200.8	Selenium	mg/L	0.0273	0.00432	0.0250	91.9	70 - 130	X536061 - X5H0487-02	05-Sep-25	
EPA 200.8	Silver	mg/L	0.0228	<0.00008	0.0250	91.0	70 - 130	X536061 - X5H0378-01	05-Sep-25	
EPA 200.8	Silver	mg/L	0.0202	<0.00008	0.0250	81.0	70 - 130	X536061 - X5H0487-02	05-Sep-25	
EPA 200.8	Thallium	mg/L	0.0261	<0.000200	0.0250	104	70 - 130	X536061 - X5H0378-01	05-Sep-25	
EPA 200.8	Thallium	mg/L	0.0228	<0.000200	0.0250	91.4	70 - 130	X536061 - X5H0487-02	05-Sep-25	
EPA 200.8	Uranium	mg/L	0.0276	0.000703	0.0250	108	70 - 130	X536061 - X5H0378-01	05-Sep-25	
EPA 200.8	Uranium	mg/L	0.0258	0.00151	0.0250	97.2	70 - 130	X536061 - X5H0487-02	05-Sep-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.101	<0.0050	0.100	101	79 - 121	X537010 - X5I0005-01	09-Sep-25	
EPA 335.4	Cyanide (total)	mg/L	0.0996	<0.0050	0.100	99.6	90 - 110	X535007 - X5H0355-03	03-Sep-25	
EPA 335.4	Cyanide (total)	mg/L	0.153	0.0535	0.100	99.5	90 - 110	X535007 - X5H0355-06	03-Sep-25	
EPA 350.1	Ammonia as N	mg/L	6.47	1.55	1.00	492	90 - 110	X535184 - X5H0461-02	29-Aug-25	M4
EPA 351.2	TKN	mg/L	6.95	<0.50	8.00	81.8	90 - 110	X536054 - X5H0502-01	04-Sep-25	M2
EPA 351.2	TKN	mg/L	7.89	<0.50	8.00	98.6	90 - 110	X536054 - X5H0466-02	04-Sep-25	
OIA 1677	Cyanide (WAD)	mg/L	0.0907	<0.0050	0.100	90.7	82 - 118	X536057 - X5H0468-01	08-Sep-25	R2B
SM 4500 S D	Sulfide	mg/L	0.209	<0.050	0.200	105	75 - 125	X535220 - X5H0440-01	29-Aug-25	
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0180	<0.0050	0.0222	81.2	75 - 125	X537066 - X5H0466-02	09-Sep-25	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	5.24	2.14	3.00	103	90 - 110	X535147 - X5H0476-01	27-Aug-25	
EPA 300.0	Fluoride	mg/L	2.03	<0.100	2.00	96.4	90 - 110	X535147 - X5H0476-01	27-Aug-25	
EPA 300.0	Nitrate as N	mg/L	2.58	0.549	2.00	102	90 - 110	X535147 - X5H0476-01	27-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.60	0.549	4.00	101	90 - 110	X535147 - X5H0476-01	27-Aug-25	
EPA 300.0	Nitrite as N	mg/L	2.02	<0.050	2.00	101	90 - 110	X535147 - X5H0476-01	27-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	24.2	13.7	10.0	104	90 - 110	X535147 - X5H0476-01	27-Aug-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: **X5H0466**

Reported: 11-Sep-25 16:42

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)

EPA 1631E	Mercury	ng/L	2.95	2.88	2.50	2.7	24	97.0	X536035 - X5H0458-01	
EPA 1631E	Mercury	ng/L	3.03	2.95	2.50	2.8	24	98.2	X536035 - X5H0378-01	
EPA 245.1	Mercury	mg/L	0.00221	0.00226	0.00200	2.0	20	111	X536021 - X5H0451-01	B10

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

EPA 200.7	Barium	mg/L	1.06	1.06	1.00	0.0	20	93.0	X536143 - X5H0466-01	
EPA 200.7	Beryllium	mg/L	0.952	0.980	1.00	2.9	20	95.2	X536143 - X5H0466-01	
EPA 200.7	Boron	mg/L	0.994	1.01	1.00	1.1	20	98.0	X536143 - X5H0466-01	
EPA 200.7	Calcium	mg/L	65.8	66.6	20.0	1.0	20	98	X536143 - X5H0466-01	
EPA 200.7	Chromium	mg/L	0.942	0.961	1.00	2.0	20	94.2	X536143 - X5H0466-01	
EPA 200.7	Iron	mg/L	11.4	11.6	10.0	1.5	20	97.2	X536143 - X5H0466-01	
EPA 200.7	Magnesium	mg/L	30.9	31.4	20.0	1.5	20	102	X536143 - X5H0466-01	
EPA 200.7	Manganese	mg/L	1.67	1.68	1.00	0.8	20	94.2	X536143 - X5H0466-01	
EPA 200.7	Molybdenum	mg/L	0.949	0.970	1.00	2.1	20	94.9	X536143 - X5H0466-01	
EPA 200.7	Nickel	mg/L	0.884	0.902	1.00	2.0	20	88.4	X536143 - X5H0466-01	
EPA 200.7	Phosphorus	mg/L	1.06	1.07	1.00	0.5	20	98.8	X536143 - X5H0466-01	
EPA 200.7	Potassium	mg/L	21.3	21.6	20.0	1.4	20	96.3	X536143 - X5H0466-01	
EPA 200.7	Sodium	mg/L	32.2	32.6	19.0	1.4	20	95.6	X536143 - X5H0466-01	
EPA 200.7	Zinc	mg/L	0.931	0.945	1.00	1.5	20	91.6	X536143 - X5H0466-01	
EPA 200.8	Antimony	mg/L	0.0234	0.0236	0.0250	0.6	20	93.7	X536149 - X5H0466-02	
EPA 200.8	Arsenic	mg/L	0.0245	0.0239	0.0250	2.4	20	95.0	X536149 - X5H0466-02	
EPA 200.8	Cadmium	mg/L	0.0230	0.0233	0.0250	1.3	20	91.7	X536149 - X5H0466-02	
EPA 200.8	Chromium	mg/L	0.0234	0.0236	0.0250	0.7	20	93.5	X536149 - X5H0466-02	
EPA 200.8	Copper	mg/L	0.0235	0.0240	0.0250	2.4	20	89.7	X536149 - X5H0466-02	
EPA 200.8	Lead	mg/L	0.0239	0.0234	0.0250	2.1	20	95.7	X537109 - X5H0469-01	
EPA 200.8	Selenium	mg/L	0.0236	0.0237	0.0250	0.3	20	93.2	X536149 - X5H0466-02	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.18	1.18	1.00	0.1	20	113	X536006 - X5H0466-02	
EPA 200.7	Barium	mg/L	1.21	1.19	1.00	1.3	20	110	X536006 - X5H0466-02	
EPA 200.7	Beryllium	mg/L	1.12	1.12	1.00	0.4	20	112	X536006 - X5H0466-02	
EPA 200.7	Calcium	mg/L	73.4	73.0	20.0	0.5	20	114	X536006 - X5H0466-02	
EPA 200.7	Iron	mg/L	13.7	13.7	10.0	0.6	20	115	X536006 - X5H0466-02	
EPA 200.7	Magnesium	mg/L	34.3	34.1	20.0	0.8	20	115	X536006 - X5H0466-02	
EPA 200.7	Manganese	mg/L	1.72	1.72	1.00	0.1	20	110	X536006 - X5H0466-02	
EPA 200.7	Molybdenum	mg/L	1.14	1.14	1.00	0.3	20	114	X536006 - X5H0466-02	
EPA 200.7	Nickel	mg/L	1.05	1.05	1.00	0.1	20	104	X536006 - X5H0466-02	
EPA 200.7	Potassium	mg/L	21.9	21.6	20.0	1.3	20	102	X536006 - X5H0466-02	
EPA 200.7	Sodium	mg/L	38.2	38.0	19.0	0.6	20	112	X536006 - X5H0466-02	
EPA 200.7	Zinc	mg/L	1.15	1.14	1.00	0.2	20	113	X536006 - X5H0466-02	
EPA 200.8	Antimony	mg/L	0.0249	0.0257	0.0250	3.2	20	93.8	X536061 - X5H0378-01	
EPA 200.8	Arsenic	mg/L	0.0251	0.0262	0.0250	4.5	20	100	X536061 - X5H0378-01	
EPA 200.8	Cadmium	mg/L	0.0238	0.0248	0.0250	4.5	20	95.0	X536061 - X5H0378-01	
EPA 200.8	Chromium	mg/L	0.0238	0.0247	0.0250	3.9	20	93.9	X536061 - X5H0378-01	
EPA 200.8	Copper	mg/L	0.0240	0.0251	0.0250	4.2	20	91.2	X536061 - X5H0378-01	
EPA 200.8	Lead	mg/L	0.0246	0.0254	0.0250	2.9	20	98.6	X536061 - X5H0378-01	
EPA 200.8	Selenium	mg/L	0.0266	0.0275	0.0250	3.4	20	103	X536061 - X5H0378-01	
EPA 200.8	Silver	mg/L	0.0218	0.0228	0.0250	4.4	20	87.2	X536061 - X5H0378-01	
EPA 200.8	Thallium	mg/L	0.0251	0.0261	0.0250	3.9	20	100	X536061 - X5H0378-01	
EPA 200.8	Uranium	mg/L	0.0269	0.0276	0.0250	2.4	20	105	X536061 - X5H0378-01	

Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0996	0.101	0.100	1.5	11	99.6	X537010 - X5I0005-01	
EPA 335.4	Cyanide (total)	mg/L	0.102	0.0996	0.100	2.6	20	102	X535007 - X5H0355-03	
EPA 350.1	Ammonia as N	mg/L	6.18	6.47	1.00	4.6	20	463	X535184 - X5H0461-02	M4
EPA 351.2	TKN	mg/L	7.00	6.95	8.00	0.7	20	82.4	X536054 - X5H0502-01	M2
OIA 1677	Cyanide (WAD)	mg/L	0.114	0.0907	0.100	23.1	11	114	X536057 - X5H0468-01	R2B



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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: **X5H0466**

Reported: 11-Sep-25 16:42

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

Classical Chemistry Parameters (Continued)

SM 4500 S D	Sulfide	mg/L	0.214	0.209	0.200	2.4	20	107	X535220 - X5H0440-01
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Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0175	0.0180	0.0222	3.2	20	78.7	X537066 - X5H0466-02
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Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	5.27	5.24	3.00	0.5	20	104	X535147 - X5H0476-01
EPA 300.0	Fluoride	mg/L	2.05	2.03	2.00	1.3	20	97.7	X535147 - X5H0476-01
EPA 300.0	Nitrate as N	mg/L	2.61	2.58	2.00	1.2	20	103	X535147 - X5H0476-01
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.68	4.60	4.00	1.8	20	103	X535147 - X5H0476-01
EPA 300.0	Nitrite as N	mg/L	2.07	2.02	2.00	2.4	20	104	X535147 - X5H0476-01
EPA 300.0	Sulfate as SO4	mg/L	24.2	24.2	10.0	0.2	20	105	X535147 - X5H0476-01



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Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5H0466**

Reported: 11-Sep-25 16:42

Notes and Definitions

B10	Target analyte detected in method blank above laboratory acceptance limit but below reporting limit.
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.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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.
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: **X5H0492**

Reported: 12-Sep-25 10:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-135G	X5H0492-01	Ground Water	27-Aug-25 09:23	JC	28-Aug-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: X5H0492

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: **X5H0492**

Reported: 12-Sep-25 10:27

Client Sample ID: **GVMW-135G**

Sampled: 27-Aug-25 09:23

Received: 28-Aug-25

Sampled By: JC

SVL Sample ID: **X5H0492-01 (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	393	mg/L	0.100	0.069		X537040	SJN	09/09/25 14:29	
EPA 200.7	Magnesium	137	mg/L	0.500	0.090		X537040	SJN	09/09/25 14:29	
EPA 200.7	Potassium	6.41	mg/L	0.50	0.18		X537040	SJN	09/09/25 14:29	
SM 2340 B	Hardness (as CaCO3)	1540	mg/L	2.31	0.543		N/A		09/11/25 13:52	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X537011	SJN	09/11/25 13:52	
EPA 200.7	Barium	0.0127	mg/L	0.0020	0.0019		X537011	SJN	09/11/25 13:52	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X537011	SJN	09/11/25 13:52	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X537011	SJN	09/11/25 13:52	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X537011	SJN	09/11/25 13:52	
EPA 200.7	Calcium	427	mg/L	0.100	0.069		X537011	SJN	09/11/25 13:52	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X537011	SJN	09/11/25 13:52	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X537011	SJN	09/11/25 13:52	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X537011	SJN	09/11/25 13:52	
EPA 200.7	Iron	0.147	mg/L	0.100	0.056		X537011	SJN	09/11/25 13:52	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X537011	SJN	09/11/25 13:52	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X537011	SJN	09/11/25 13:52	
EPA 200.7	Magnesium	127	mg/L	0.500	0.090		X537011	SJN	09/11/25 13:52	
EPA 200.7	Manganese	0.319	mg/L	0.0080	0.0034		X537011	SJN	09/11/25 13:52	
EPA 200.7	Molybdenum	0.0133	mg/L	0.0080	0.0034		X537011	SJN	09/11/25 13:52	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X537011	SJN	09/11/25 13:52	
EPA 200.7	Potassium	5.59	mg/L	0.50	0.18		X537011	SJN	09/11/25 13:52	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X537011	SJN	09/11/25 15:53	
EPA 200.7	Sodium	17.5	mg/L	0.50	0.12		X537011	SJN	09/11/25 13:52	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X537011	SJN	09/11/25 13:52	
EPA 200.7	Zinc	0.0137	mg/L	0.0100	0.0054		X537011	SJN	09/11/25 13:52	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X536062	JRR	09/05/25 14:19	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X536062	JRR	09/05/25 14:19	
EPA 200.8	Selenium	0.00457	mg/L	0.00100	0.00024		X536062	JRR	09/05/25 14:19	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X536062	JRR	09/05/25 14:19	
EPA 200.8	Uranium	0.00410	mg/L	0.000100	0.000052		X536062	NMS	09/09/25 10:26	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X536025	SJN	09/03/25 15:49	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X537010	ORW	09/09/25 19:08	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X535007	JPM	09/03/25 09:57	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X536100	ORW	09/05/25 14:12	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X536057	JPM	09/08/25 16:20	
SM 2310 B	Acidity to pH 8.3	-30.7	mg/L as CaCO3	10.0			X537017	MWD	09/08/25 11:12	
SM 2320 B	Total Alkalinity	35.0	mg/L as CaCO3	1.0			X536048	MWD	09/04/25 16:43	
SM 2320 B	Bicarbonate	32.0	mg/L as CaCO3	1.0			X536048	MWD	09/04/25 16:43	
SM 2320 B	Carbonate	3.0	mg/L as CaCO3	1.0			X536048	MWD	09/04/25 16:43	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X536048	MWD	09/04/25 16:43	
SM 2540 C	Total Diss. Solids	2070	mg/L	40			X535226	TJL	09/02/25 13:25	
SM 2540 D	Total Susp. Solids	16.0	mg/L	5.0			X535228	TJL	09/02/25 13:00	
SM 4500 H B	pH @24.5°C	8.5	pH Units				X536048	MWD	09/04/25 16:43	H5

SVL holds the following certifications:

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

Work order Report Page 2 of 11



One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
(208) 784-1258
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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: X5H0492 Reported: 12-Sep-25 10:27
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Client Sample ID: **GVMW-135G**
SVL Sample ID: **X5H0492-01 (Ground Water)**

Sampled: 27-Aug-25 09:23
Received: 28-Aug-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	86.3	mg/L	10.0	1.10	50	X535189	RS	08/28/25 15:10	
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.017		X535189	RS	08/28/25 14:54	
EPA 300.0	Nitrate as N	13.8	mg/L	2.50	0.650	50	X535189	RS	08/28/25 15:10	
EPA 300.0	Nitrate+Nitrite as N	13.9	mg/L	0.100	0.044		X535189	RS	08/28/25 14:54	
EPA 300.0	Nitrite as N	0.169	mg/L	0.050	0.031		X535189	RS	08/28/25 14:54	
EPA 300.0	Sulfate as SO4	1390	mg/L	15.0	9.00	50	X535189	RS	08/28/25 15:10	

Cation/Anion Balance and TDS Ratios										
Cation Sum: 31.0 meq/L	Anion Sum: 33.1 meq/L	C/A Balance: -3.23 %	Calculated TDS: 2124	TDS/cTDS: 0.97						

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

Tawnya M. Hall

Tawnya M. Hall
Project Manager Assistant



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: **X5H0492**

Reported: 12-Sep-25 10:27

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	X537040	09-Sep-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X537040	09-Sep-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X537040	09-Sep-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X537011	11-Sep-25	
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X537011	11-Sep-25	
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X537011	11-Sep-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X537011	11-Sep-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X537011	11-Sep-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X537011	11-Sep-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X537011	11-Sep-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X537011	11-Sep-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X537011	11-Sep-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X537011	11-Sep-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X537011	11-Sep-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X537011	11-Sep-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X537011	11-Sep-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X537011	11-Sep-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X537011	11-Sep-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X537011	11-Sep-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X537011	11-Sep-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X537011	11-Sep-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X537011	11-Sep-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X537011	11-Sep-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X537011	11-Sep-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X537011	11-Sep-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X537011	11-Sep-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X537011	11-Sep-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X537011	11-Sep-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X537011	11-Sep-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X537011	11-Sep-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X537011	11-Sep-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X537011	11-Sep-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X537011	11-Sep-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X537011	11-Sep-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X537011	11-Sep-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X537011	11-Sep-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X537011	11-Sep-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X537011	11-Sep-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X537011	11-Sep-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X537011	11-Sep-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X537011	11-Sep-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X537011	11-Sep-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X537011	11-Sep-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X537011	11-Sep-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X537011	11-Sep-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X537011	11-Sep-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X537011	11-Sep-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X537011	11-Sep-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X537011	11-Sep-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X537011	11-Sep-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X537011	11-Sep-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X537011	11-Sep-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X537011	11-Sep-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X537011	11-Sep-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X537011	11-Sep-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X537011	11-Sep-25	

SVL holds the following certifications:

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

Work order Report Page 4 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: **X5H0492**

Reported: 12-Sep-25 10:27

Quality Control - BLANK Data (Continued)

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
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Metals (Dissolved) (Continued)

EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X537011	11-Sep-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X537011	11-Sep-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X537011	11-Sep-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X537011	11-Sep-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X537011	11-Sep-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X537011	11-Sep-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X537011	11-Sep-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X537011	11-Sep-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X537011	11-Sep-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X537011	11-Sep-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X536062	05-Sep-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X536062	05-Sep-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X536062	05-Sep-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X536062	05-Sep-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X536062	05-Sep-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X536025	03-Sep-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X537010	09-Sep-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X535007	03-Sep-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X536100	05-Sep-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X536057	08-Sep-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X537017	08-Sep-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X536048	04-Sep-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X536048	04-Sep-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X536048	04-Sep-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X536048	04-Sep-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X535226	02-Sep-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X535228	02-Sep-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X535189	28-Aug-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X535189	28-Aug-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X535189	28-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X535189	28-Aug-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X535189	28-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X535189	28-Aug-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	18.8	20.0	94	85 - 115	X537040	09-Sep-25	
EPA 200.7	Magnesium	mg/L	18.9	20.0	94.6	85 - 115	X537040	09-Sep-25	
EPA 200.7	Potassium	mg/L	18.8	20.0	94.0	85 - 115	X537040	09-Sep-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.909	1.00	90.9	85 - 115	X537011	11-Sep-25	
EPA 200.7	Barium	mg/L	0.927	1.00	92.7	85 - 115	X537011	11-Sep-25	
EPA 200.7	Beryllium	mg/L	0.917	1.00	91.7	85 - 115	X537011	11-Sep-25	
EPA 200.7	Boron	mg/L	0.956	1.00	95.6	85 - 115	X537011	11-Sep-25	
EPA 200.7	Cadmium	mg/L	0.897	1.00	89.7	85 - 115	X537011	11-Sep-25	

SVL holds the following certifications:

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

Work order Report Page 5 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 2024Work Order: **X5H0492**

Reported: 12-Sep-25 10:27

Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Dissolved) (Continued)									
EPA 200.7	Calcium	mg/L	18.8	20.0	93.8	85 - 115	X537011	11-Sep-25	
EPA 200.7	Chromium	mg/L	0.925	1.00	92.5	85 - 115	X537011	11-Sep-25	
EPA 200.7	Cobalt	mg/L	0.879	1.00	87.9	85 - 115	X537011	11-Sep-25	
EPA 200.7	Copper	mg/L	0.867	1.00	86.7	85 - 115	X537011	11-Sep-25	
EPA 200.7	Iron	mg/L	9.53	10.0	95.3	85 - 115	X537011	11-Sep-25	
EPA 200.7	Lead	mg/L	0.890	1.00	89.0	85 - 115	X537011	11-Sep-25	
EPA 200.7	Lithium	mg/L	0.899	1.00	89.9	85 - 115	X537011	11-Sep-25	
EPA 200.7	Magnesium	mg/L	18.7	20.0	93.3	85 - 115	X537011	11-Sep-25	
EPA 200.7	Manganese	mg/L	0.922	1.00	92.2	85 - 115	X537011	11-Sep-25	
EPA 200.7	Molybdenum	mg/L	0.938	1.00	93.8	85 - 115	X537011	11-Sep-25	
EPA 200.7	Nickel	mg/L	0.879	1.00	87.9	85 - 115	X537011	11-Sep-25	
EPA 200.7	Potassium	mg/L	19.3	20.0	96.3	85 - 115	X537011	11-Sep-25	
EPA 200.7	Silver	mg/L	0.0471	0.0500	94.3	85 - 115	X537011	11-Sep-25	
EPA 200.7	Sodium	mg/L	18.0	19.0	94.8	85 - 115	X537011	11-Sep-25	
EPA 200.7	Vanadium	mg/L	0.936	1.00	93.6	85 - 115	X537011	11-Sep-25	
EPA 200.7	Zinc	mg/L	0.941	1.00	94.1	85 - 115	X537011	11-Sep-25	
EPA 200.8	Antimony	mg/L	0.0217	0.0250	87.0	85 - 115	X536062	05-Sep-25	
EPA 200.8	Antimony	mg/L	0.0222	0.0250	89.0	85 - 115	X536062	05-Sep-25	
EPA 200.8	Arsenic	mg/L	0.0239	0.0250	95.8	85 - 115	X536062	05-Sep-25	
EPA 200.8	Selenium	mg/L	0.0215	0.0250	86.2	85 - 115	X536062	05-Sep-25	
EPA 200.8	Thallium	mg/L	0.0233	0.0250	93.3	85 - 115	X536062	05-Sep-25	
EPA 200.8	Uranium	mg/L	0.0274	0.0250	109	85 - 115	X536062	05-Sep-25	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00209	0.00200	104	85 - 115	X536025	03-Sep-25	
Classical Chemistry Parameters									
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0978	0.100	97.8	90 - 110	X537010	09-Sep-25	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.100	103	90 - 110	X535007	03-Sep-25	
EPA 350.1	Ammonia as N	mg/L	0.991	1.00	99.1	90 - 110	X536100	05-Sep-25	
OIA 1677	Cyanide (WAD)	mg/L	0.0991	0.100	99.1	90 - 110	X536057	08-Sep-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1210	1180	102	95.4 - 104	X537017	08-Sep-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.90	9.93	99.7	94 - 106	X536048	04-Sep-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	100	99.3	101	94 - 106	X536048	04-Sep-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	402	397	101	94 - 106	X536048	04-Sep-25	
SM 2540 C	Total Diss. Solids	mg/L	245	250	98.0	85 - 115	X535226	02-Sep-25	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X535228	02-Sep-25	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.90	3.00	96.8	90 - 110	X535189	28-Aug-25	
EPA 300.0	Fluoride	mg/L	1.88	2.00	93.9	90 - 110	X535189	28-Aug-25	
EPA 300.0	Nitrate as N	mg/L	1.96	2.00	98.1	90 - 110	X535189	28-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.49	4.50	99.7	90 - 110	X535189	28-Aug-25	
EPA 300.0	Nitrite as N	mg/L	2.53	2.50	101	90 - 110	X535189	28-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	10.1	10.0	101	90 - 110	X535189	28-Aug-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: **X5H0492**

Reported: 12-Sep-25 10:27

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	X537017 - X5H0466-01	08-Sep-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	156	158	1.2	20	X536048 - X5H0468-02	04-Sep-25	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	156	158	1.2	20	X536048 - X5H0468-02	04-Sep-25	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X536048 - X5H0468-02	04-Sep-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X536048 - X5H0468-02	04-Sep-25	
SM 2540 C	Total Diss. Solids	mg/L	220	193	13.1	10	X535226 - X5H0505-03	02-Sep-25	R2B
SM 2540 C	Total Diss. Solids	mg/L	250	250	0.0	10	X535226 - X5H0466-02	02-Sep-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X535228 - X5H0505-03	02-Sep-25	
SM 2540 D	Total Susp. Solids	mg/L	17.0	17.0	0.0	10	X535228 - X5H0466-02	02-Sep-25	
SM 4500 H B	pH @24.5°C	pH Units	6.1	6.1	0.5	20	X536048 - X5H0468-02	04-Sep-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	150	130	20.0	100	70 - 130	X537040 - X5H0487-02	09-Sep-25	
EPA 200.7	Calcium	mg/L	135	116	20.0	94	70 - 130	X537040 - X5H0495-02	09-Sep-25	
EPA 200.7	Magnesium	mg/L	35.3	14.8	20.0	103	70 - 130	X537040 - X5H0487-02	09-Sep-25	
EPA 200.7	Magnesium	mg/L	72.3	50.5	20.0	109	70 - 130	X537040 - X5H0495-02	09-Sep-25	
EPA 200.7	Potassium	mg/L	28.7	9.51	20.0	96.2	70 - 130	X537040 - X5H0487-02	09-Sep-25	
EPA 200.7	Potassium	mg/L	24.6	5.76	20.0	94.2	70 - 130	X537040 - X5H0495-02	09-Sep-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	<0.080	1.00	101	70 - 130	X537011 - X5H0514-01	11-Sep-25	
EPA 200.7	Aluminum	mg/L	14500	14400	1.00	0.30R>S	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18,M3
EPA 200.7	Barium	mg/L	0.952	0.0939	1.00	85.9	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18
EPA 200.7	Barium	mg/L	0.979	0.0244	1.00	95.5	70 - 130	X537011 - X5H0514-01	11-Sep-25	
EPA 200.7	Beryllium	mg/L	2.02	1.15	1.00	87.0	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18
EPA 200.7	Beryllium	mg/L	0.966	<0.00200	1.00	96.6	70 - 130	X537011 - X5H0514-01	11-Sep-25	
EPA 200.7	Boron	mg/L	2.56	1.75	1.00	81.1	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18
EPA 200.7	Boron	mg/L	1.05	<0.0400	1.00	103	70 - 130	X537011 - X5H0514-01	11-Sep-25	
EPA 200.7	Cadmium	mg/L	2.45	1.67	1.00	78.9	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18
EPA 200.7	Cadmium	mg/L	0.905	<0.0020	1.00	90.5	70 - 130	X537011 - X5H0514-01	11-Sep-25	
EPA 200.7	Calcium	mg/L	492	475	20.0	86.5	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18
EPA 200.7	Calcium	mg/L	516	494	20.0	109	70 - 130	X537011 - X5H0514-01	11-Sep-25	
EPA 200.7	Chromium	mg/L	3.73	2.89	1.00	84.2	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18
EPA 200.7	Chromium	mg/L	0.974	<0.0060	1.00	97.2	70 - 130	X537011 - X5H0514-01	11-Sep-25	
EPA 200.7	Cobalt	mg/L	79.5	78.7	1.00	75.8	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18
EPA 200.7	Cobalt	mg/L	0.924	<0.0060	1.00	92.4	70 - 130	X537011 - X5H0514-01	11-Sep-25	
EPA 200.7	Copper	mg/L	315	314	1.00	106	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18
EPA 200.7	Copper	mg/L	1.01	<0.0100	1.00	100	70 - 130	X537011 - X5H0514-01	11-Sep-25	
EPA 200.7	Iron	mg/L	8420	9920	10.0	0.30R>S	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18,M3
EPA 200.7	Iron	mg/L	9.88	<0.100	10.0	98.8	70 - 130	X537011 - X5H0514-01	11-Sep-25	
EPA 200.7	Lead	mg/L	0.877	<0.0750	1.00	87.7	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18
EPA 200.7	Lead	mg/L	0.933	<0.0075	1.00	93.3	70 - 130	X537011 - X5H0514-01	11-Sep-25	
EPA 200.7	Lithium	mg/L	3.03	1.82	1.00	121	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18
EPA 200.7	Lithium	mg/L	1.15	<0.040	1.00	115	70 - 130	X537011 - X5H0514-01	11-Sep-25	
EPA 200.7	Magnesium	mg/L	8440	8310	20.0	0.30R>S	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18,M3
EPA 200.7	Magnesium	mg/L	97.7	73.6	20.0	121	70 - 130	X537011 - X5H0514-01	11-Sep-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: **X5H0492**

Reported: 12-Sep-25 10:27

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	0.972	<0.0080	1.00	96.7	70 - 130	X537011 - X5H0514-01	11-Sep-25	
EPA 200.7	Manganese	mg/L	1400	1380	1.00	0.30R>S	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18,M3
EPA 200.7	Molybdenum	mg/L	1.37	0.510	1.00	86.3	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18
EPA 200.7	Molybdenum	mg/L	1.12	0.120	1.00	100	70 - 130	X537011 - X5H0514-01	11-Sep-25	
EPA 200.7	Nickel	mg/L	23.9	23.1	1.00	77.0	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18
EPA 200.7	Nickel	mg/L	0.929	0.0101	1.00	91.9	70 - 130	X537011 - X5H0514-01	11-Sep-25	
EPA 200.7	Potassium	mg/L	61.6	41.9	20.0	98.3	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18
EPA 200.7	Potassium	mg/L	25.4	4.40	20.0	105	70 - 130	X537011 - X5H0514-01	11-Sep-25	
EPA 200.7	Silver	mg/L	<0.0500	<0.0500	0.0500	N/A	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18,M3
EPA 200.7	Silver	mg/L	0.0481	<0.0050	0.0500	96.2	70 - 130	X537011 - X5H0514-01	11-Sep-25	
EPA 200.7	Sodium	mg/L	42.6	25.1	19.0	92.2	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18
EPA 200.7	Sodium	mg/L	63.3	44.0	19.0	101	70 - 130	X537011 - X5H0514-01	11-Sep-25	
EPA 200.7	Vanadium	mg/L	2.28	1.43	1.00	85.2	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18
EPA 200.7	Vanadium	mg/L	1.00	0.0064	1.00	99.7	70 - 130	X537011 - X5H0514-01	11-Sep-25	
EPA 200.7	Zinc	mg/L	314	313	1.00	96.9	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18
EPA 200.7	Zinc	mg/L	1.03	0.0244	1.00	100	70 - 130	X537011 - X5H0514-01	11-Sep-25	
EPA 200.8	Antimony	mg/L	0.0241	<0.00500	0.0250	96.6	70 - 130	X536062 - X5H0401-01	05-Sep-25	D17
EPA 200.8	Antimony	mg/L	0.0277	<0.00100	0.0250	111	70 - 130	X536062 - X5H0514-01	09-Sep-25	
EPA 200.8	Arsenic	mg/L	0.184	0.159	0.0250	98.0	70 - 130	X536062 - X5H0401-01	05-Sep-25	D17
EPA 200.8	Arsenic	mg/L	0.0273	<0.00100	0.0250	106	70 - 130	X536062 - X5H0514-01	05-Sep-25	
EPA 200.8	Selenium	mg/L	0.0343	0.0131	0.0250	84.9	70 - 130	X536062 - X5H0401-01	05-Sep-25	D17
EPA 200.8	Selenium	mg/L	0.0274	<0.00100	0.0250	106	70 - 130	X536062 - X5H0514-01	05-Sep-25	
EPA 200.8	Thallium	mg/L	0.0244	<0.00100	0.0250	97.7	70 - 130	X536062 - X5H0401-01	05-Sep-25	D17
EPA 200.8	Thallium	mg/L	0.0250	<0.000200	0.0250	99.8	70 - 130	X536062 - X5H0514-01	05-Sep-25	
EPA 200.8	Uranium	mg/L	1.52	1.50	0.0250	74.4	70 - 130	X536062 - X5H0401-01	09-Sep-25	D17
EPA 200.8	Uranium	mg/L	0.0307	0.00218	0.0250	114	70 - 130	X536062 - X5H0514-01	09-Sep-25	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00207	<0.000200	0.00200	103	70 - 130	X536025 - X5H0439-01	03-Sep-25	
EPA 245.1	Mercury	mg/L	0.00217	<0.000200	0.00200	109	70 - 130	X536025 - X5H0491-01	03-Sep-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.101	<0.0050	0.100	101	79 - 121	X537010 - X5I0005-01	09-Sep-25	
EPA 335.4	Cyanide (total)	mg/L	0.0996	<0.0050	0.100	99.6	90 - 110	X535007 - X5H0355-03	03-Sep-25	
EPA 335.4	Cyanide (total)	mg/L	0.153	0.0535	0.100	99.5	90 - 110	X535007 - X5H0355-06	03-Sep-25	
EPA 350.1	Ammonia as N	mg/L	0.970	<0.030	1.00	95.1	90 - 110	X536100 - X5H0491-01	05-Sep-25	
EPA 350.1	Ammonia as N	mg/L	1.00	<0.030	1.00	100	90 - 110	X536100 - X5I0005-02	05-Sep-25	
OIA 1677	Cyanide (WAD)	mg/L	0.0907	<0.0050	0.100	90.7	82 - 118	X536057 - X5H0468-01	08-Sep-25	R2B
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.89	0.92	3.00	98.9	90 - 110	X535189 - X5H0488-02	28-Aug-25	
EPA 300.0	Chloride	mg/L	10.4	7.25	3.00	106	90 - 110	X535189 - X5H0488-03	28-Aug-25	
EPA 300.0	Fluoride	mg/L	1.96	<0.100	2.00	98.0	90 - 110	X535189 - X5H0488-02	28-Aug-25	
EPA 300.0	Fluoride	mg/L	2.02	<0.100	2.00	96.9	90 - 110	X535189 - X5H0488-03	28-Aug-25	
EPA 300.0	Nitrate as N	mg/L	2.04	0.061	2.00	98.8	90 - 110	X535189 - X5H0488-02	28-Aug-25	
EPA 300.0	Nitrate as N	mg/L	9.55	7.69	2.00	92.8	90 - 110	X535189 - X5H0488-03	28-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.07	<0.100	4.00	100	90 - 110	X535189 - X5H0488-02	28-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	11.6	7.79	4.00	95.5	90 - 110	X535189 - X5H0488-03	28-Aug-25	
EPA 300.0	Nitrite as N	mg/L	2.03	<0.050	2.00	101	90 - 110	X535189 - X5H0488-02	28-Aug-25	
EPA 300.0	Nitrite as N	mg/L	2.06	<0.050	2.00	103	90 - 110	X535189 - X5H0488-03	28-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	12.7	2.13	10.0	106	90 - 110	X535189 - X5H0488-02	28-Aug-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



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: **X5H0492**
Reported: 12-Sep-25 10:27

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	84.2	74.6	10.0	96.0	90 - 110	X535189 - X5H0488-03	28-Aug-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	147	150	20.0	2.0	20	84	X537040 - X5H0487-02	
EPA 200.7	Magnesium	mg/L	34.2	35.3	20.0	3.3	20	97.0	X537040 - X5H0487-02	
EPA 200.7	Potassium	mg/L	28.0	28.7	20.0	2.8	20	92.2	X537040 - X5H0487-02	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	14200	14500	1.00	2.3	20	0.30R>S	X537011 - X5H0463-02	D11,D18,M3
EPA 200.7	Barium	mg/L	0.931	0.952	1.00	2.2	20	83.7	X537011 - X5H0463-02	D11,D18
EPA 200.7	Beryllium	mg/L	2.02	2.02	1.00	0.3	20	86.3	X537011 - X5H0463-02	D11,D18
EPA 200.7	Boron	mg/L	2.51	2.56	1.00	1.9	20	76.2	X537011 - X5H0463-02	D11,D18
EPA 200.7	Cadmium	mg/L	2.44	2.45	1.00	0.6	20	77.4	X537011 - X5H0463-02	D11,D18
EPA 200.7	Calcium	mg/L	486	492	20.0	1.3	20	0.30R>S	X537011 - X5H0463-02	D11,D18,M3
EPA 200.7	Chromium	mg/L	3.69	3.73	1.00	0.9	20	80.8	X537011 - X5H0463-02	D11,D18
EPA 200.7	Cobalt	mg/L	78.9	79.5	1.00	0.7	20	0.30R>S	X537011 - X5H0463-02	D11,D18,M3
EPA 200.7	Copper	mg/L	310	315	1.00	1.7	20	0.30R>S	X537011 - X5H0463-02	D11,D18,M3
EPA 200.7	Iron	mg/L	8330	8420	10.0	1.2	20	0.30R>S	X537011 - X5H0463-02	D11,D18,M3
EPA 200.7	Lead	mg/L	0.854	0.877	1.00	2.6	20	85.4	X537011 - X5H0463-02	D11,D18
EPA 200.7	Lithium	mg/L	3.01	3.03	1.00	0.5	20	119	X537011 - X5H0463-02	D11,D18
EPA 200.7	Magnesium	mg/L	8280	8440	20.0	2.0	20	0.30R>S	X537011 - X5H0463-02	D11,D18,M3
EPA 200.7	Manganese	mg/L	1370	1400	1.00	2.5	20	0.30R>S	X537011 - X5H0463-02	D11,D18,M3
EPA 200.7	Molybdenum	mg/L	1.37	1.37	1.00	0.4	20	85.8	X537011 - X5H0463-02	D11,D18
EPA 200.7	Nickel	mg/L	23.6	23.9	1.00	1.1	20	0.30R>S	X537011 - X5H0463-02	D11,D18,M3
EPA 200.7	Potassium	mg/L	60.0	61.6	20.0	2.6	20	90.4	X537011 - X5H0463-02	D11,D18
EPA 200.7	Silver	mg/L	<0.0500	<0.0500	0.0500	N/A	20	N/A	X537011 - X5H0463-02	D11,D18,M3
EPA 200.7	Sodium	mg/L	42.0	42.6	19.0	1.5	20	88.9	X537011 - X5H0463-02	D11,D18
EPA 200.7	Vanadium	mg/L	2.29	2.28	1.00	0.5	20	86.4	X537011 - X5H0463-02	D11,D18
EPA 200.7	Zinc	mg/L	312	314	1.00	0.7	20	0.30R>S	X537011 - X5H0463-02	D11,D18,M3
EPA 200.8	Antimony	mg/L	0.0244	0.0241	0.0250	1.1	20	97.6	X536062 - X5H0401-01	D17
EPA 200.8	Arsenic	mg/L	0.181	0.184	0.0250	1.8	20	84.8	X536062 - X5H0401-01	D17
EPA 200.8	Selenium	mg/L	0.0340	0.0343	0.0250	1.1	20	83.4	X536062 - X5H0401-01	D17
EPA 200.8	Thallium	mg/L	0.0238	0.0244	0.0250	2.6	20	95.2	X536062 - X5H0401-01	D17
EPA 200.8	Uranium	mg/L	1.59	1.52	0.0250	4.7	20	0.30R>S	X536062 - X5H0401-01	D17,M4

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00210	0.00207	0.00200	1.5	20	105	X536025 - X5H0439-01	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0996	0.101	0.100	1.5	11	99.6	X537010 - X5I0005-01	
EPA 335.4	Cyanide (total)	mg/L	0.102	0.0996	0.100	2.6	20	102	X535007 - X5H0355-03	
EPA 350.1	Ammonia as N	mg/L	0.947	0.970	1.00	2.5	20	92.7	X536100 - X5H0491-01	
OIA 1677	Cyanide (WAD)	mg/L	0.114	0.0907	0.100	23.1	11	114	X536057 - X5H0468-01	R2B

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.98	3.89	3.00	2.4	20	102	X535189 - X5H0488-02	
EPA 300.0	Fluoride	mg/L	1.99	1.96	2.00	1.4	20	99.4	X535189 - X5H0488-02	
EPA 300.0	Nitrate as N	mg/L	2.09	2.04	2.00	2.6	20	102	X535189 - X5H0488-02	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.17	4.07	4.00	2.4	20	102	X535189 - X5H0488-02	
EPA 300.0	Nitrite as N	mg/L	2.08	2.03	2.00	2.2	20	104	X535189 - X5H0488-02	

SVL holds the following certifications:

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

Work order Report Page 9 of 11



One Government Gulch - PO Box 929
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(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: X5H0492				
Cripple Creek, CO 80813					Reported: 12-Sep-25 10:27				

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	12.8	12.7	10.0	0.3	20	106	X535189 - X5H0488-02	



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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: **X5H0492**

Reported: 12-Sep-25 10:27

Notes and Definitions

D11	Due to sample color, a sample dilution was performed to minimize spectral interference.
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.
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: **X5H0491**

Reported: 12-Sep-25 10:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-35B	X5H0491-01	Ground Water	27-Aug-25 09:23	JC	28-Aug-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: X5H0491

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: **X5H0491**

Reported: 12-Sep-25 10:20

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

Sampled: 27-Aug-25 09:23

Received: 28-Aug-25

Sampled By: JC

SVL Sample ID: **X5H0491-01 (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	405	mg/L	0.100	0.069		X537040	SJN	09/09/25 14:26	
EPA 200.7	Magnesium	132	mg/L	0.500	0.090		X537040	SJN	09/09/25 14:26	
EPA 200.7	Potassium	5.41	mg/L	0.50	0.18		X537040	SJN	09/09/25 14:26	
SM 2340 B	Hardness (as CaCO3)	1550	mg/L	2.31	0.543		N/A		09/11/25 13:50	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X537011	SJN	09/11/25 13:50	
EPA 200.7	Barium	0.0127	mg/L	0.0020	0.0019		X537011	SJN	09/11/25 13:50	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X537011	SJN	09/11/25 13:50	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X537011	SJN	09/11/25 13:50	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X537011	SJN	09/11/25 13:50	
EPA 200.7	Calcium	430	mg/L	0.100	0.069		X537011	SJN	09/11/25 13:50	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X537011	SJN	09/11/25 13:50	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X537011	SJN	09/11/25 13:50	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X537011	SJN	09/11/25 13:50	
EPA 200.7	Iron	0.187	mg/L	0.100	0.056		X537011	SJN	09/11/25 13:50	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X537011	SJN	09/11/25 13:50	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X537011	SJN	09/11/25 13:50	
EPA 200.7	Magnesium	128	mg/L	0.500	0.090		X537011	SJN	09/11/25 13:50	
EPA 200.7	Manganese	0.319	mg/L	0.0080	0.0034		X537011	SJN	09/11/25 13:50	
EPA 200.7	Molybdenum	0.0132	mg/L	0.0080	0.0034		X537011	SJN	09/11/25 13:50	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X537011	SJN	09/11/25 13:50	
EPA 200.7	Potassium	5.62	mg/L	0.50	0.18		X537011	SJN	09/11/25 13:50	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X537011	SJN	09/11/25 15:49	
EPA 200.7	Sodium	17.7	mg/L	0.50	0.12		X537011	SJN	09/11/25 13:50	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X537011	SJN	09/11/25 13:50	
EPA 200.7	Zinc	0.0169	mg/L	0.0100	0.0054		X537011	SJN	09/11/25 13:50	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X536062	JRR	09/05/25 12:05	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X536062	JRR	09/05/25 14:17	
EPA 200.8	Selenium	0.00460	mg/L	0.00100	0.00024		X536062	JRR	09/05/25 14:17	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X536062	JRR	09/05/25 12:05	
EPA 200.8	Uranium	0.00424	mg/L	0.000100	0.000052		X536062	JRR	09/09/25 10:02	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X536025	SJN	09/03/25 15:40	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X537010	ORW	09/09/25 19:05	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X535007	JPM	09/03/25 09:55	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X536100	ORW	09/05/25 14:10	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X536057	JPM	09/08/25 16:17	
SM 2310 B	Acidity to pH 8.3	-40.0	mg/L as CaCO3	10.0			X537017	MWD	09/08/25 11:12	
SM 2320 B	Total Alkalinity	40.9	mg/L as CaCO3	1.0			X536048	MWD	09/04/25 16:37	
SM 2320 B	Bicarbonate	39.4	mg/L as CaCO3	1.0			X536048	MWD	09/04/25 16:37	
SM 2320 B	Carbonate	1.5	mg/L as CaCO3	1.0			X536048	MWD	09/04/25 16:37	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X536048	MWD	09/04/25 16:37	
SM 2540 C	Total Diss. Solids	2320	mg/L	40			X535226	TJL	09/02/25 13:25	
SM 2540 D	Total Susp. Solids	24.0	mg/L	5.0			X535228	TJL	09/02/25 13:00	
SM 4500 H B	pH @24.4°C	8.4	pH Units				X536048	MWD	09/04/25 16:37	H5

SVL holds the following certifications:

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

Work order Report Page 2 of 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: X5H0491 Reported: 12-Sep-25 10:20
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Client Sample ID: **GVMW-35B**
SVL Sample ID: **X5H0491-01 (Ground Water)**

Sampled: 27-Aug-25 09:23
Received: 28-Aug-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	87.1	mg/L	10.0	1.10	50	X535189	RS	08/28/25 14:38	
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.017		X535189	RS	08/28/25 14:23	
EPA 300.0	Nitrate as N	14.4	mg/L	2.50	0.650	50	X535189	RS	08/28/25 14:38	
EPA 300.0	Nitrate+Nitrite as N	14.6	mg/L	0.100	0.044		X535189	RS	08/28/25 14:23	
EPA 300.0	Nitrite as N	0.162	mg/L	0.050	0.031		X535189	RS	08/28/25 14:23	
EPA 300.0	Sulfate as SO4	1410	mg/L	15.0	9.00	50	X535189	RS	08/28/25 14:38	

Cation/Anion Balance and TDS Ratios										
Cation Sum: 31.7 meq/L		Anion Sum: 33.7 meq/L		C/A Balance: -3.05 %		Calculated TDS: 2157		TDS/cTDS: 1.08		

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

Tawnya M. Hall

Tawnya M. Hall
Project Manager Assistant



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: **X5H0491**

Reported: 12-Sep-25 10:20

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	X537040	09-Sep-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X537040	09-Sep-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X537040	09-Sep-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X537011	11-Sep-25	
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X537011	11-Sep-25	
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X537011	11-Sep-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X537011	11-Sep-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X537011	11-Sep-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X537011	11-Sep-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X537011	11-Sep-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X537011	11-Sep-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X537011	11-Sep-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X537011	11-Sep-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X537011	11-Sep-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X537011	11-Sep-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X537011	11-Sep-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X537011	11-Sep-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X537011	11-Sep-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X537011	11-Sep-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X537011	11-Sep-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X537011	11-Sep-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X537011	11-Sep-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X537011	11-Sep-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X537011	11-Sep-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X537011	11-Sep-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X537011	11-Sep-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X537011	11-Sep-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X537011	11-Sep-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X537011	11-Sep-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X537011	11-Sep-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X537011	11-Sep-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X537011	11-Sep-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X537011	11-Sep-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X537011	11-Sep-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X537011	11-Sep-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X537011	11-Sep-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X537011	11-Sep-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X537011	11-Sep-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X537011	11-Sep-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X537011	11-Sep-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X537011	11-Sep-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X537011	11-Sep-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X537011	11-Sep-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X537011	11-Sep-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X537011	11-Sep-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X537011	11-Sep-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X537011	11-Sep-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X537011	11-Sep-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X537011	11-Sep-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X537011	11-Sep-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X537011	11-Sep-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X537011	11-Sep-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X537011	11-Sep-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X537011	11-Sep-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X537011	11-Sep-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X537011	11-Sep-25	

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 2024Work Order: **X5H0491**

Reported: 12-Sep-25 10:20

Quality Control - BLANK Data (Continued)

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
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Metals (Dissolved) (Continued)

EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X537011	11-Sep-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X537011	11-Sep-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X537011	11-Sep-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X537011	11-Sep-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X537011	11-Sep-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X537011	11-Sep-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X537011	11-Sep-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X537011	11-Sep-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X537011	11-Sep-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X537011	11-Sep-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X536062	05-Sep-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X536062	05-Sep-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X536062	05-Sep-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X536062	05-Sep-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X536062	05-Sep-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X536025	03-Sep-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X537010	09-Sep-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X535007	03-Sep-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X536100	05-Sep-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X536057	08-Sep-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X537017	08-Sep-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X536048	04-Sep-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X536048	04-Sep-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X536048	04-Sep-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X536048	04-Sep-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X535226	02-Sep-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X535228	02-Sep-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X535189	28-Aug-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X535189	28-Aug-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X535189	28-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X535189	28-Aug-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X535189	28-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X535189	28-Aug-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	18.8	20.0	94	85 - 115	X537040	09-Sep-25	
EPA 200.7	Magnesium	mg/L	18.9	20.0	94.6	85 - 115	X537040	09-Sep-25	
EPA 200.7	Potassium	mg/L	18.8	20.0	94.0	85 - 115	X537040	09-Sep-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.909	1.00	90.9	85 - 115	X537011	11-Sep-25	
EPA 200.7	Barium	mg/L	0.927	1.00	92.7	85 - 115	X537011	11-Sep-25	
EPA 200.7	Beryllium	mg/L	0.917	1.00	91.7	85 - 115	X537011	11-Sep-25	
EPA 200.7	Boron	mg/L	0.956	1.00	95.6	85 - 115	X537011	11-Sep-25	
EPA 200.7	Cadmium	mg/L	0.897	1.00	89.7	85 - 115	X537011	11-Sep-25	

SVL holds the following certifications:

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

Work order Report Page 5 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: **X5H0491**

Reported: 12-Sep-25 10:20

Quality Control - LABORATORY CONTROL SAMPLE Data**(Continued)**

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Dissolved) (Continued)									
EPA 200.7	Calcium	mg/L	18.8	20.0	93.8	85 - 115	X537011	11-Sep-25	
EPA 200.7	Chromium	mg/L	0.925	1.00	92.5	85 - 115	X537011	11-Sep-25	
EPA 200.7	Cobalt	mg/L	0.879	1.00	87.9	85 - 115	X537011	11-Sep-25	
EPA 200.7	Copper	mg/L	0.867	1.00	86.7	85 - 115	X537011	11-Sep-25	
EPA 200.7	Iron	mg/L	9.53	10.0	95.3	85 - 115	X537011	11-Sep-25	
EPA 200.7	Lead	mg/L	0.890	1.00	89.0	85 - 115	X537011	11-Sep-25	
EPA 200.7	Lithium	mg/L	0.899	1.00	89.9	85 - 115	X537011	11-Sep-25	
EPA 200.7	Magnesium	mg/L	18.7	20.0	93.3	85 - 115	X537011	11-Sep-25	
EPA 200.7	Manganese	mg/L	0.922	1.00	92.2	85 - 115	X537011	11-Sep-25	
EPA 200.7	Molybdenum	mg/L	0.938	1.00	93.8	85 - 115	X537011	11-Sep-25	
EPA 200.7	Nickel	mg/L	0.879	1.00	87.9	85 - 115	X537011	11-Sep-25	
EPA 200.7	Potassium	mg/L	19.3	20.0	96.3	85 - 115	X537011	11-Sep-25	
EPA 200.7	Silver	mg/L	0.0471	0.0500	94.3	85 - 115	X537011	11-Sep-25	
EPA 200.7	Sodium	mg/L	18.0	19.0	94.8	85 - 115	X537011	11-Sep-25	
EPA 200.7	Vanadium	mg/L	0.936	1.00	93.6	85 - 115	X537011	11-Sep-25	
EPA 200.7	Zinc	mg/L	0.941	1.00	94.1	85 - 115	X537011	11-Sep-25	
EPA 200.8	Antimony	mg/L	0.0217	0.0250	87.0	85 - 115	X536062	05-Sep-25	
EPA 200.8	Antimony	mg/L	0.0222	0.0250	89.0	85 - 115	X536062	05-Sep-25	
EPA 200.8	Arsenic	mg/L	0.0239	0.0250	95.8	85 - 115	X536062	05-Sep-25	
EPA 200.8	Selenium	mg/L	0.0215	0.0250	86.2	85 - 115	X536062	05-Sep-25	
EPA 200.8	Thallium	mg/L	0.0233	0.0250	93.3	85 - 115	X536062	05-Sep-25	
EPA 200.8	Uranium	mg/L	0.0274	0.0250	109	85 - 115	X536062	05-Sep-25	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00209	0.00200	104	85 - 115	X536025	03-Sep-25	
Classical Chemistry Parameters									
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0978	0.100	97.8	90 - 110	X537010	09-Sep-25	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.100	103	90 - 110	X535007	03-Sep-25	
EPA 350.1	Ammonia as N	mg/L	0.991	1.00	99.1	90 - 110	X536100	05-Sep-25	
OIA 1677	Cyanide (WAD)	mg/L	0.0991	0.100	99.1	90 - 110	X536057	08-Sep-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1210	1180	102	95.4 - 104	X537017	08-Sep-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.90	9.93	99.7	94 - 106	X536048	04-Sep-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	100	99.3	101	94 - 106	X536048	04-Sep-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	402	397	101	94 - 106	X536048	04-Sep-25	
SM 2540 C	Total Diss. Solids	mg/L	245	250	98.0	85 - 115	X535226	02-Sep-25	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X535228	02-Sep-25	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.90	3.00	96.8	90 - 110	X535189	28-Aug-25	
EPA 300.0	Fluoride	mg/L	1.88	2.00	93.9	90 - 110	X535189	28-Aug-25	
EPA 300.0	Nitrate as N	mg/L	1.96	2.00	98.1	90 - 110	X535189	28-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.49	4.50	99.7	90 - 110	X535189	28-Aug-25	
EPA 300.0	Nitrite as N	mg/L	2.53	2.50	101	90 - 110	X535189	28-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	10.1	10.0	101	90 - 110	X535189	28-Aug-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: **X5H0491**

Reported: 12-Sep-25 10:20

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	X537017 - X5H0466-01	08-Sep-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	156	158	1.2	20	X536048 - X5H0468-02	04-Sep-25	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	156	158	1.2	20	X536048 - X5H0468-02	04-Sep-25	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X536048 - X5H0468-02	04-Sep-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X536048 - X5H0468-02	04-Sep-25	
SM 2540 C	Total Diss. Solids	mg/L	220	193	13.1	10	X535226 - X5H0505-03	02-Sep-25	R2B
SM 2540 C	Total Diss. Solids	mg/L	250	250	0.0	10	X535226 - X5H0466-02	02-Sep-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X535228 - X5H0505-03	02-Sep-25	
SM 2540 D	Total Susp. Solids	mg/L	17.0	17.0	0.0	10	X535228 - X5H0466-02	02-Sep-25	
SM 4500 H B	pH @24.5°C	pH Units	6.1	6.1	0.5	20	X536048 - X5H0468-02	04-Sep-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	150	130	20.0	100	70 - 130	X537040 - X5H0487-02	09-Sep-25	
EPA 200.7	Calcium	mg/L	135	116	20.0	94	70 - 130	X537040 - X5H0495-02	09-Sep-25	
EPA 200.7	Magnesium	mg/L	35.3	14.8	20.0	103	70 - 130	X537040 - X5H0487-02	09-Sep-25	
EPA 200.7	Magnesium	mg/L	72.3	50.5	20.0	109	70 - 130	X537040 - X5H0495-02	09-Sep-25	
EPA 200.7	Potassium	mg/L	28.7	9.51	20.0	96.2	70 - 130	X537040 - X5H0487-02	09-Sep-25	
EPA 200.7	Potassium	mg/L	24.6	5.76	20.0	94.2	70 - 130	X537040 - X5H0495-02	09-Sep-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	<0.080	1.00	101	70 - 130	X537011 - X5H0514-01	11-Sep-25	
EPA 200.7	Aluminum	mg/L	14500	14400	1.00	0.30R>S	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18,M3
EPA 200.7	Barium	mg/L	0.952	0.0939	1.00	85.9	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18
EPA 200.7	Barium	mg/L	0.979	0.0244	1.00	95.5	70 - 130	X537011 - X5H0514-01	11-Sep-25	
EPA 200.7	Beryllium	mg/L	2.02	1.15	1.00	87.0	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18
EPA 200.7	Beryllium	mg/L	0.966	<0.00200	1.00	96.6	70 - 130	X537011 - X5H0514-01	11-Sep-25	
EPA 200.7	Boron	mg/L	2.56	1.75	1.00	81.1	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18
EPA 200.7	Boron	mg/L	1.05	<0.0400	1.00	103	70 - 130	X537011 - X5H0514-01	11-Sep-25	
EPA 200.7	Cadmium	mg/L	2.45	1.67	1.00	78.9	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18
EPA 200.7	Cadmium	mg/L	0.905	<0.0020	1.00	90.5	70 - 130	X537011 - X5H0514-01	11-Sep-25	
EPA 200.7	Calcium	mg/L	492	475	20.0	86.5	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18
EPA 200.7	Calcium	mg/L	516	494	20.0	109	70 - 130	X537011 - X5H0514-01	11-Sep-25	
EPA 200.7	Chromium	mg/L	3.73	2.89	1.00	84.2	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18
EPA 200.7	Chromium	mg/L	0.974	<0.0060	1.00	97.2	70 - 130	X537011 - X5H0514-01	11-Sep-25	
EPA 200.7	Cobalt	mg/L	79.5	78.7	1.00	75.8	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18
EPA 200.7	Cobalt	mg/L	0.924	<0.0060	1.00	92.4	70 - 130	X537011 - X5H0514-01	11-Sep-25	
EPA 200.7	Copper	mg/L	315	314	1.00	106	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18
EPA 200.7	Copper	mg/L	1.01	<0.0100	1.00	100	70 - 130	X537011 - X5H0514-01	11-Sep-25	
EPA 200.7	Iron	mg/L	8420	9920	10.0	0.30R>S	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18,M3
EPA 200.7	Iron	mg/L	9.88	<0.100	10.0	98.8	70 - 130	X537011 - X5H0514-01	11-Sep-25	
EPA 200.7	Lead	mg/L	0.877	<0.0750	1.00	87.7	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18
EPA 200.7	Lead	mg/L	0.933	<0.0075	1.00	93.3	70 - 130	X537011 - X5H0514-01	11-Sep-25	
EPA 200.7	Lithium	mg/L	3.03	1.82	1.00	121	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18
EPA 200.7	Lithium	mg/L	1.15	<0.040	1.00	115	70 - 130	X537011 - X5H0514-01	11-Sep-25	
EPA 200.7	Magnesium	mg/L	8440	8310	20.0	0.30R>S	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18,M3
EPA 200.7	Magnesium	mg/L	97.7	73.6	20.0	121	70 - 130	X537011 - X5H0514-01	11-Sep-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: **X5H0491**

Reported: 12-Sep-25 10:20

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	0.972	<0.0080	1.00	96.7	70 - 130	X537011 - X5H0514-01	11-Sep-25	
EPA 200.7	Manganese	mg/L	1400	1380	1.00	0.30R>S	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18,M3
EPA 200.7	Molybdenum	mg/L	1.37	0.510	1.00	86.3	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18
EPA 200.7	Molybdenum	mg/L	1.12	0.120	1.00	100	70 - 130	X537011 - X5H0514-01	11-Sep-25	
EPA 200.7	Nickel	mg/L	23.9	23.1	1.00	77.0	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18
EPA 200.7	Nickel	mg/L	0.929	0.0101	1.00	91.9	70 - 130	X537011 - X5H0514-01	11-Sep-25	
EPA 200.7	Potassium	mg/L	61.6	41.9	20.0	98.3	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18
EPA 200.7	Potassium	mg/L	25.4	4.40	20.0	105	70 - 130	X537011 - X5H0514-01	11-Sep-25	
EPA 200.7	Silver	mg/L	<0.0500	<0.0500	0.0500	N/A	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18,M3
EPA 200.7	Silver	mg/L	0.0481	<0.0050	0.0500	96.2	70 - 130	X537011 - X5H0514-01	11-Sep-25	
EPA 200.7	Sodium	mg/L	42.6	25.1	19.0	92.2	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18
EPA 200.7	Sodium	mg/L	63.3	44.0	19.0	101	70 - 130	X537011 - X5H0514-01	11-Sep-25	
EPA 200.7	Vanadium	mg/L	2.28	1.43	1.00	85.2	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18
EPA 200.7	Vanadium	mg/L	1.00	0.0064	1.00	99.7	70 - 130	X537011 - X5H0514-01	11-Sep-25	
EPA 200.7	Zinc	mg/L	314	313	1.00	96.9	70 - 130	X537011 - X5H0463-02	11-Sep-25	D11,D18
EPA 200.7	Zinc	mg/L	1.03	0.0244	1.00	100	70 - 130	X537011 - X5H0514-01	11-Sep-25	
EPA 200.8	Antimony	mg/L	0.0241	<0.00500	0.0250	96.6	70 - 130	X536062 - X5H0401-01	05-Sep-25	D17
EPA 200.8	Antimony	mg/L	0.0277	<0.00100	0.0250	111	70 - 130	X536062 - X5H0514-01	09-Sep-25	
EPA 200.8	Arsenic	mg/L	0.184	0.159	0.0250	98.0	70 - 130	X536062 - X5H0401-01	05-Sep-25	D17
EPA 200.8	Arsenic	mg/L	0.0273	<0.00100	0.0250	106	70 - 130	X536062 - X5H0514-01	05-Sep-25	
EPA 200.8	Selenium	mg/L	0.0343	0.0131	0.0250	84.9	70 - 130	X536062 - X5H0401-01	05-Sep-25	D17
EPA 200.8	Selenium	mg/L	0.0274	<0.00100	0.0250	106	70 - 130	X536062 - X5H0514-01	05-Sep-25	
EPA 200.8	Thallium	mg/L	0.0244	<0.00100	0.0250	97.7	70 - 130	X536062 - X5H0401-01	05-Sep-25	D17
EPA 200.8	Thallium	mg/L	0.0250	<0.000200	0.0250	99.8	70 - 130	X536062 - X5H0514-01	05-Sep-25	
EPA 200.8	Uranium	mg/L	1.52	1.50	0.0250	74.4	70 - 130	X536062 - X5H0401-01	09-Sep-25	D17
EPA 200.8	Uranium	mg/L	0.0307	0.00218	0.0250	114	70 - 130	X536062 - X5H0514-01	09-Sep-25	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00207	<0.000200	0.00200	103	70 - 130	X536025 - X5H0439-01	03-Sep-25	
EPA 245.1	Mercury	mg/L	0.00217	<0.000200	0.00200	109	70 - 130	X536025 - X5H0491-01	03-Sep-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.101	<0.0050	0.100	101	79 - 121	X537010 - X5I0005-01	09-Sep-25	
EPA 335.4	Cyanide (total)	mg/L	0.0996	<0.0050	0.100	99.6	90 - 110	X535007 - X5H0355-03	03-Sep-25	
EPA 335.4	Cyanide (total)	mg/L	0.153	0.0535	0.100	99.5	90 - 110	X535007 - X5H0355-06	03-Sep-25	
EPA 350.1	Ammonia as N	mg/L	0.970	<0.030	1.00	95.1	90 - 110	X536100 - X5H0491-01	05-Sep-25	
EPA 350.1	Ammonia as N	mg/L	1.00	<0.030	1.00	100	90 - 110	X536100 - X5I0005-02	05-Sep-25	
OIA 1677	Cyanide (WAD)	mg/L	0.0907	<0.0050	0.100	90.7	82 - 118	X536057 - X5H0468-01	08-Sep-25	R2B
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.89	0.92	3.00	98.9	90 - 110	X535189 - X5H0488-02	28-Aug-25	
EPA 300.0	Chloride	mg/L	10.4	7.25	3.00	106	90 - 110	X535189 - X5H0488-03	28-Aug-25	
EPA 300.0	Fluoride	mg/L	1.96	<0.100	2.00	98.0	90 - 110	X535189 - X5H0488-02	28-Aug-25	
EPA 300.0	Fluoride	mg/L	2.02	<0.100	2.00	96.9	90 - 110	X535189 - X5H0488-03	28-Aug-25	
EPA 300.0	Nitrate as N	mg/L	2.04	0.061	2.00	98.8	90 - 110	X535189 - X5H0488-02	28-Aug-25	
EPA 300.0	Nitrate as N	mg/L	9.55	7.69	2.00	92.8	90 - 110	X535189 - X5H0488-03	28-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.07	<0.100	4.00	100	90 - 110	X535189 - X5H0488-02	28-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	11.6	7.79	4.00	95.5	90 - 110	X535189 - X5H0488-03	28-Aug-25	
EPA 300.0	Nitrite as N	mg/L	2.03	<0.050	2.00	101	90 - 110	X535189 - X5H0488-02	28-Aug-25	
EPA 300.0	Nitrite as N	mg/L	2.06	<0.050	2.00	103	90 - 110	X535189 - X5H0488-03	28-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	12.7	2.13	10.0	106	90 - 110	X535189 - X5H0488-02	28-Aug-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



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: **X5H0491**
Reported: 12-Sep-25 10:20

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	84.2	74.6	10.0	96.0	90 - 110	X535189 - X5H0488-03	28-Aug-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	147	150	20.0	2.0	20	84	X537040 - X5H0487-02	
EPA 200.7	Magnesium	mg/L	34.2	35.3	20.0	3.3	20	97.0	X537040 - X5H0487-02	
EPA 200.7	Potassium	mg/L	28.0	28.7	20.0	2.8	20	92.2	X537040 - X5H0487-02	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	14200	14500	1.00	2.3	20	0.30R>S	X537011 - X5H0463-02	D11,D18,M3
EPA 200.7	Barium	mg/L	0.931	0.952	1.00	2.2	20	83.7	X537011 - X5H0463-02	D11,D18
EPA 200.7	Beryllium	mg/L	2.02	2.02	1.00	0.3	20	86.3	X537011 - X5H0463-02	D11,D18
EPA 200.7	Boron	mg/L	2.51	2.56	1.00	1.9	20	76.2	X537011 - X5H0463-02	D11,D18
EPA 200.7	Cadmium	mg/L	2.44	2.45	1.00	0.6	20	77.4	X537011 - X5H0463-02	D11,D18
EPA 200.7	Calcium	mg/L	486	492	20.0	1.3	20	0.30R>S	X537011 - X5H0463-02	D11,D18,M3
EPA 200.7	Chromium	mg/L	3.69	3.73	1.00	0.9	20	80.8	X537011 - X5H0463-02	D11,D18
EPA 200.7	Cobalt	mg/L	78.9	79.5	1.00	0.7	20	0.30R>S	X537011 - X5H0463-02	D11,D18,M3
EPA 200.7	Copper	mg/L	310	315	1.00	1.7	20	0.30R>S	X537011 - X5H0463-02	D11,D18,M3
EPA 200.7	Iron	mg/L	8330	8420	10.0	1.2	20	0.30R>S	X537011 - X5H0463-02	D11,D18,M3
EPA 200.7	Lead	mg/L	0.854	0.877	1.00	2.6	20	85.4	X537011 - X5H0463-02	D11,D18
EPA 200.7	Lithium	mg/L	3.01	3.03	1.00	0.5	20	119	X537011 - X5H0463-02	D11,D18
EPA 200.7	Magnesium	mg/L	8280	8440	20.0	2.0	20	0.30R>S	X537011 - X5H0463-02	D11,D18,M3
EPA 200.7	Manganese	mg/L	1370	1400	1.00	2.5	20	0.30R>S	X537011 - X5H0463-02	D11,D18,M3
EPA 200.7	Molybdenum	mg/L	1.37	1.37	1.00	0.4	20	85.8	X537011 - X5H0463-02	D11,D18
EPA 200.7	Nickel	mg/L	23.6	23.9	1.00	1.1	20	0.30R>S	X537011 - X5H0463-02	D11,D18,M3
EPA 200.7	Potassium	mg/L	60.0	61.6	20.0	2.6	20	90.4	X537011 - X5H0463-02	D11,D18
EPA 200.7	Silver	mg/L	<0.0500	<0.0500	0.0500	N/A	20	N/A	X537011 - X5H0463-02	D11,D18,M3
EPA 200.7	Sodium	mg/L	42.0	42.6	19.0	1.5	20	88.9	X537011 - X5H0463-02	D11,D18
EPA 200.7	Vanadium	mg/L	2.29	2.28	1.00	0.5	20	86.4	X537011 - X5H0463-02	D11,D18
EPA 200.7	Zinc	mg/L	312	314	1.00	0.7	20	0.30R>S	X537011 - X5H0463-02	D11,D18,M3
EPA 200.8	Antimony	mg/L	0.0244	0.0241	0.0250	1.1	20	97.6	X536062 - X5H0401-01	D17
EPA 200.8	Arsenic	mg/L	0.181	0.184	0.0250	1.8	20	84.8	X536062 - X5H0401-01	D17
EPA 200.8	Selenium	mg/L	0.0340	0.0343	0.0250	1.1	20	83.4	X536062 - X5H0401-01	D17
EPA 200.8	Thallium	mg/L	0.0238	0.0244	0.0250	2.6	20	95.2	X536062 - X5H0401-01	D17
EPA 200.8	Uranium	mg/L	1.59	1.52	0.0250	4.7	20	0.30R>S	X536062 - X5H0401-01	D17,M4

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00210	0.00207	0.00200	1.5	20	105	X536025 - X5H0439-01	
-----------	---------	------	---------	---------	---------	-----	----	-----	----------------------	--

Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0996	0.101	0.100	1.5	11	99.6	X537010 - X5I0005-01	
EPA 335.4	Cyanide (total)	mg/L	0.102	0.0996	0.100	2.6	20	102	X535007 - X5H0355-03	
EPA 350.1	Ammonia as N	mg/L	0.947	0.970	1.00	2.5	20	92.7	X536100 - X5H0491-01	
OIA 1677	Cyanide (WAD)	mg/L	0.114	0.0907	0.100	23.1	11	114	X536057 - X5H0468-01	R2B

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.98	3.89	3.00	2.4	20	102	X535189 - X5H0488-02	
EPA 300.0	Fluoride	mg/L	1.99	1.96	2.00	1.4	20	99.4	X535189 - X5H0488-02	
EPA 300.0	Nitrate as N	mg/L	2.09	2.04	2.00	2.6	20	102	X535189 - X5H0488-02	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.17	4.07	4.00	2.4	20	102	X535189 - X5H0488-02	
EPA 300.0	Nitrite as N	mg/L	2.08	2.03	2.00	2.2	20	104	X535189 - X5H0488-02	

SVL holds the following certifications:

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

Work order Report Page 9 of 11



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

Cripple Creek & Victor Gold Mining Company					Project Name: Cripple Creek/Victor Water and Soil 2024				
Ironclad Security 1632 County Rd 82					Work Order: X5H0491				
Cripple Creek, CO 80813					Reported: 12-Sep-25 10:20				

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	12.8	12.7	10.0	0.3	20	106	X535189 - X5H0488-02	



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: **X5H0491**

Reported: 12-Sep-25 10:20

Notes and Definitions

D11	Due to sample color, a sample dilution was performed to minimize spectral interference.
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.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
R2B	RPD exceeded the laboratory acceptance limit.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

Attachment 2

Surface Water Calculations

GV-4.5		
Sample Date:		8/26/2025
Data for Calculations:		
pH	6.64	std units
Hardness	168	mg/L
Temperature	11.6	Celsius
Regulation 32 (5 CCR 1002-32) COARUA24 Standards		
Physical	Acute	Chronic
pH (std. units)	6.5 - 9.0	---
Temperature (°C)	< 21.7	< 17
Inorganic	Acute (mg/L)	Chronic (mg/L)
Ammonia	6.519	30.698
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	0.00291	0.00106
Cadmium (T)	0.00500	---
Chromium (III)	---	0.11336
Chromium (III) (T)	0.05000	---
Hexavalent Chromium	0.01600	0.01100
Copper	0.02191	0.01395
Iron	---	0.30000
Iron (T)	---	1.00000
Lead	0.11306	0.00441
Lead (T)	0.05000	---
Manganese	3.54890	1.96077
Mercury (T)	---	0.00001
Molybdenum (T)	---	0.15000
Nickel	0.72623	0.08066
Nickel (T)	---	0.10000
Selenium	0.01840	0.00460
Silver	0.00495	0.00018
Uranium	0.01680	0.01680
Zinc	0.25646	0.19425

GV-4.5 Results

Physical

6.64

11.6

Inorganic

<0.030

<0.0400

30.3

--

<0.0050

0.42

<0.050

<0.050

53.4

0.186

Metals

<0.00100

<0.00100

<0.000100

<0.000100

<0.00600

<0.0110

<0.0050

0.00059

2.28**7.48**

<0.00020

<0.00020

0.622

<0.0000005

<0.0080

<0.0100

<0.0100

<0.00100

<0.00008

0.000364

0.0133

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:		8/26/2025
Data for Calculations:		
pH	7.7	std units
Hardness	174	mg/L
Temperature	10.6	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	3.578	9.644
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	0.00301	0.00109
Cadmium (T)	0.00500	---
Chromium (III)	---	0.11666
Chromium (III) (T)	0.05000	---
Hexavalent Chromium	0.01600	0.01100
Copper	0.02265	0.01438
Iron	---	0.30000
Iron (T)	---	1.00000
Lead	0.11738	0.00457
Lead (T)	0.05000	---
Manganese	3.59062	1.98382
Mercury (T)	---	0.00001
Molybdenum (T)	---	0.15000
Nickel	0.74812	0.08309
Nickel (T)	---	0.10000
Selenium	0.01840	0.00460
Silver	0.00526	0.00019
Uranium	0.01680	0.01680
Zinc	0.26478	0.20055

GV-05 Results
Physical
7.7
10.6
Inorganic
<0.030
<0.0400
11.6
--
<0.0050
0.052
<0.050
<0.050
88.9
0.067
Metals
<0.00100
<0.00100
<0.000100
<0.000100
<0.00600
<0.0110
<0.0050
0.00069
0.218
1.37
<0.00020
0.00047
0.337
0.00000159
<0.0080
<0.0100
<0.0100
<0.00100
<0.00008
0.000502
0.0138

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:		8/26/2025
Data for Calculations:		
pH	7.07	std units
Hardness	167	mg/L
Temperature	11.1	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	5.743460118	22.60114032
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	0.00290	0.00106
Cadmium (T)	0.00500	---
Chromium (III)	---	0.11280
Chromium (III) (T)	0.05000	---
Hexavalent Chromium	0.01600	0.01100
Copper	0.02179	0.01388
Iron	---	0.30000
Iron (T)	---	1.00000
Lead	0.11234	0.00438
Lead (T)	0.05000	---
Manganese	3.54185	1.95687
Mercury (T)	---	0.00001
Molybdenum (T)	---	0.15000
Nickel	0.72258	0.08026
Nickel (T)	---	0.10000
Selenium	0.01840	0.00460
Silver	0.00490	0.00018
Uranium	0.01680	0.01680
Zinc	0.25508	0.19320

GV-06 Results
Physical
7.07
11.1
Inorganic
<0.030
<0.0400
6.55
--
<0.0050
0.188
<0.050
<0.050
96
0.077
Metals
<0.00100
<0.00100
<0.000100
<0.000100
<0.00600
<0.0110
<0.0050
0.00048
0.337
1.7
<0.00020
0.00097
0.597
0.00000167
<0.0080
<0.0100
<0.0100
<0.00100
<0.00008
0.00112
0.0109

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
Groundwater Sampling Log

Location: EMP-16

Date: 8/25/25

Technician: J. Cranford

Quarter: 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
9:30	— Dry —	—	—	—

Sample Method: _____

Oil/Gas visible [Y/N]

Turbid [Y/N]

Clear [Y/N]

Weather: 56°F, overcast

Signature: _____

Comments / Notes:

EMP-16 is effectively 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-17

Date: 8/25/25

Technician: J. Cranford

Quarter: 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
9:23	_____	Dry	_____	_____

Sample Method: _____

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

Turbid ~~[Y/N]~~

Clear ~~[Y/N]~~

Weather: 56°F, overcast

Signature: _____

Comments / Notes:

EMP-17 is effectively 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-17A

Date: 8/25/25

Technician: J. Cranford

Quarter: _____

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
9:21	— Dry —	—	—	—

Sample Method: _____

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

Turbid ~~{Y/N}~~

Clear ~~{Y/N}~~

Weather: 57°F, Overcast

Signature: _____

Comments / Notes:

EMP-17A is effectively 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: 8/25/25

Technician: J. Cranford

Quarter: 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
9:24	—	Dry	—	—

Sample Method: _____

Oil/Gas visible [Y/N]

Turbid [Y/N]

Clear [Y/N]

Weather: 57°F, overcast

Signature: _____

Comments / Notes:

EMP-17B is effectively 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: 8/25/25

Technician: J. Cranford

Quarter: 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
9:32	—	Dry	—	—

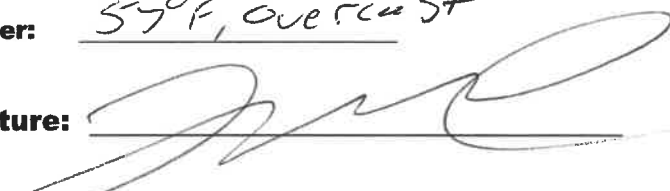
Sample Method:

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

Turbid ~~[Y/N]~~

Clear ~~[Y/N]~~

Weather: 57°F, overcast

Signature: 

Comments / Notes:

EMP-17C is effectively 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: 8/25/25

Technician: J. Canford

Quarter: 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
9:35	—	Dry	—	—

Sample Method: —

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

Turbid ~~[Y/N]~~

Clear ~~[Y/N]~~

Weather: 57°F, overcast

Signature: [Signature]

Comments/Notes:

EMP-20 is effectively 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: GU-02

Date: 8/25/25

Technician: J. Crawford

Quarter: 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
11:10	—	Dry	—	—

Sample Method: _____

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

Turbid ~~{Y/N}~~

Clear ~~{Y/N}~~

Weather: 58°F, overcast

Signature: _____

Comments / Notes:

GU-02 is dry/not flowing

** 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: 6/25/25

Technician: J. Cranford

Quarter: 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
11:15	—	Dry	—	—

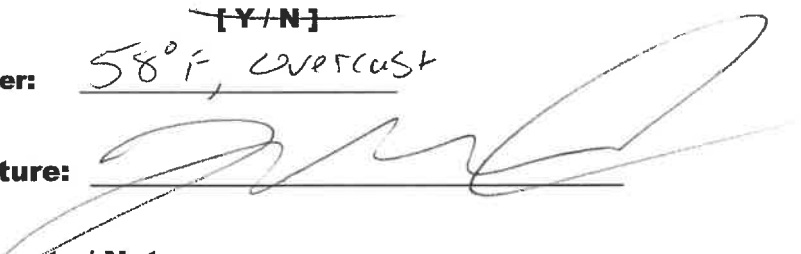
Sample Method:

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

Turbid ~~[Y/N]~~

Clear ~~[Y/N]~~

Weather: 58°F, overcast

Signature: 

Comments / Notes:

GV-03 is dry/not flowing.

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-4.5

Date: 8/26/25

Technician: J. Cranford

Quarter: 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	
8:58	6.64	406.2	11.6	33	ch/anh
					0.264

Sample Method: Coas

Oil/Gas visible ☒ **[Y/N]**

Turbid ☒ **[Y/N]**

Clear ☒ **[Y/N]** - little murky.

Weather: 55°F, Overcast

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: GV-05

Date: 8/26/25

Technician: J. Cranford

Quarter: 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	
9:17	7.07	394.8	10.6	116	chlorine 208

Sample Method: grab

Oil/Gas visible [Y/N]

Turbid [Y/N]

Clear [Y/N]

Weather: 55°F, overcast

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: GV-06

Date: 8/26/15

Technician: J. Counford

Quarter: 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
8:45	7.07	457.4	11.1	80

chloride

0.209

Sample Method: Gross

Oil/Gas visible [Y/N]

Turbid [Y/N]

Clear [Y/N]

Weather: 54° F, overcast

Signature: [Signature]

Comments / Notes:

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: 8/19/25

Technician: J. Crawford

Quarter: 3

Static Water Level (DTW): 39.35

Well ID: 60mcr-4A

Is well Dry? No

If so Dry at: _____

Well Depth (TD): 480-
feet

[illegible]

Sample Method: Low Flow

Rate (gpm): 0.1

Time Start: 9:45

Time End: 10:10

* Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	6.14	±0.1	Y / N
Conductivity	298.2	3%	Y / N
Temp (deg C)	6.74	3%	Y / N
Dissolved Oxygen	6.05	10%	Y / N
Turbidity		10%	Y / N
Oxidation/Reduction Potential	-2.9	±10	Y / N
DTW Stabilized	39.86	feet	Y / N
Final H2O level	39.86	feet	

If Low Flow Met: Drawdown greater than 0.33 ft? ☒ Y / ☐ N

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

3.04

Actual vol. pumped (gal)

3.5 gal

* See Field Volume Guide

O/G visible:

Y / N

Turbid?

Y / N

Equipment Decontaminated:

④ / N

Decontamination procedure used:

Triple Runse Alc Knox

Weather:

67°F Same x

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: $2.744 * 0.3 = 3.04$

Mitosis: TP unknown well casing is split/damaged.

QC: T and

Groundwater Sampling Log

Grassy Valley

8/12/25

T. Feed

3

345.53

GUMW-7A

✓

700

feet

Total
 Draw down
 0.64"

Low-Flow

0.07

12:00

Time End: 12:20

* Flow rate at stabilization (during sample collection)

Test Parameter	Salmonella	Shigella	E. coli
pH	7.14	±0.1	Y / N
Conductivity	152.0	3%	Y / N
Temp (deg C)	7.19	3%	Y / N
Dissolved Oxygen	0.00	10%	Y / N
Turbidity	—	10%	Y / N

① N

1.64

4,25

* See Field Volume Guide

following stabilization

Y / C

Y / 2

Y / N

Decontamination procedure used:

④ triple finse Ale knoa

Ca³⁺ F ~~green~~ X

~~Lat 1 1000~~

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:

$$1 \text{ ft}^3 = 7.48 \text{ gal}$$
$$1 \text{ gal} = 3.785 \text{ L}$$
$$m/470.5 = 1.64$$



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley

Date: 3/12/25

Technician: J. Cranford

Quarter: 3

Static Water Level (DTW): 30.91

Well ID: GUMU-7B

Is well Dry? no

If so Dry at: _____ Well Depth (TD): 30
feet

[illegible]

Sample Method: low-flow Rate (gpm): 0.04 Time Start: 12:05 Time End: 12:30
 * Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	7.10	±0.1	(Y) / N
Conductivity	539	3%	(Y) / N
Temp (deg C)	9.6	3%	(Y) / N
Dissolved Oxygen	3.93	10%	(Y) / N
Turbidity		10%	(Y) / N
Oxidation/Reduction Potential	108.8	±10	(Y) / N
DTW Stabilized	30.98	feet	(Y) / N
Final H2O level	31.00	feet	

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

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

Equipment Decontaminated: (Y) / N = 100% = 100%

Decontamination procedure used: 1. 10% bleach, 41C knot

Weather: 63°F, Sun May 11

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:

250

Total drawdown				
0.15				

10:57

[Handwritten signature]

$$1 \text{ ft}^3 = 7.48 \text{ gal}$$
$$1 \text{ gal} = 3.785 \text{ L}$$

Groundwater Sampling Log

is well Dry? no If so Dry at: _____ Well Depth (TD): 270'
feet

Sample Method: low flow Rate (gpm): 0.17 Time Start: 9:57 Time End: 10:22
* 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) ~3
* See Field Volume Guide
following stabilization

Decontamination procedure used: Triple rinse, Alcohol

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: Grossy Valley Date: 8/19/25
 Technician: T. Reed Quarter: 3
 Static Water Level (DTW): 92.16 Well ID: 6UMW-15A
 Is well Dry? NO If so Dry at: — Well Depth (TD): 365.50'
 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO (mg/l)	ORP	Notes
10:38			5.98	490.1	11.45	1.64	28.4	
10:43	92.98	0.80	6.07	502.4	8.34	0.88	19.6	
10:48	93.58	0.62	6.08	501.1	7.10	0.66	16.0	
10:53	93.79	0.21	6.08	504.7	6.89	0.44	3.8	
10:58	93.91	0.12	6.09	504.0	6.94	0.59	-1.7	
11:03	93.98	0.07	6.11	505.4	7.76	0.42	-6.8	
11:08	93.03	0.05	6.15	506.3	7.94	0.44	-6.4	
11:13	93.03	0.00	6.12	504.4	7.91	0.33	-9.0	
11:18	94.03	0.00	6.14	503.7	7.90	0.32	-12.3	
Total Drawdown 1.87'								

Sample Method: Low flow Rate (gpm): 0.09 Time Start: 10:38 Time End: 11:18
 * Flow rate at stabilization (during sample collection)

Final Parameters	Stabilization Guidance	Met?	Comments
pH	6.14	±0.1	Y / N
Conductivity	503.7	3%	Y / N
Temp (deg C)	7.90	3%	Y / N
Dissolved Oxygen	0.32	10%	Y / N
Turbidity	—	10%	Y / N
Oxidation/Reduction Potential	-12.3	±10	Y / N
DTW Stabilized	94.03	feet	Y / N
Final H2O level	94.03	feet	

If Low Flow Met Drawdown greater than 0.33 ft? ☒ Y / ☐ N If yes, required pump vol (gal): 3.49 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 liquid knob

Weather: 70°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: 1 ft ³ = 7.48 gal 1 gal = 3.785 L	Show Calculations: $1.2 + 2.29 = 3.49 \text{ gal}$



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley

Date: 8/19/25

Technician: T. Reed

Quarter: 3

Static Water Level (DTW): 78.58

Well ID: GVMW-15B

Is well Dry? *✓*

If so Dry at:

Well Depth (TD): 102'
feet

[illegible]

Sample Method: Low-Flow Rate (gpm): 0.15 Time Start: 11:45 Time End: 12:10
* Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	4.65	±0.1	Y / N
Conductivity	669.9	3%	Y / N
Temp (deg C)	7.90	3%	Y / N
Dissolved Oxygen	6.00	10%	Y / N
Turbidity		10%	Y / N
Oxidation/Reduction Potential	178.2	±10	Y / N
DTW Stabilized	79.09	feet	Y / N
Final H2O level	79.09	feet	

If Low Flow Met/ Drawdown greater than 0.33 ft? ☒ / N If yes, required pump vol (gal): 0.87 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 Alc Knox

Weather: 70°F Overcast

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: $0.57 + 0.3 = 0.87\ gal$

Groundwater Sampling Log

Grassy valley

4/12/25

S. Counted

3

3.63

GUMW-224

no

—

70

feet

Total drawdown	0.28
----------------	------

low-flow

0.09

9:10

9150

* Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	7.72	±0.1	Y / N
Conductivity	562.9	3%	Y / N
Temp (deg C)	11.4	3%	Y / N
Dissolved Oxygen		10%	Y / N
Turbidity		10%	Y / N
Oxidation/Reduction Potential	0.55	±10	Y / N
DTW Stabilized	3.41	feet	Y / N
Final H2O level	3.91	feet	

Y / (N)

Actual vol. pumped (gal)

* See Field Volume Guide

Y Y N N

Y / N

(Y) N

Decontamination procedure used:

Triple ring, Alk 100x

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: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$	
Well Volume Purge Method: $Three\ Well\ Volumes = 3*V$	
Conversions: $1ft^3 = 7.48\ gal$ $1gal = 3.785\ L$	Show Calculations:

Q.C.T. read.



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley

Date: 01/2/23

Technician: T. Reed

Quarter: 3

Static Water Level (DTW): 4.35

Well ID: GIMU-220

Is well Dry? no

If so Dry at: _____

Well Depth (TD): 30
feet

[illegible]

Sample Method: Low-Flow Rate (gpm): 0.12 Time Start: 9:12 Time End: 9:42
* Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	6.20	±0.1	☑ / N
Conductivity	409.2	3%	☑ / N
Temp (deg C)	7.33	3%	☑ / N
Dissolved Oxygen	2.17	10%	☑ / N
Turbidity		16%	☑ / N
Oxidation/Reduction Potential	182.3	±10	☑ / N
DTW Stabilized	4.65	feet	☑ / N
Final H2O level	4.58	feet	

If Low Flow Met₁ Drawdown greater than 0.33 ft? Y / 6 If yes, required pump vol (gal): Actual vol. pumped (gal) 4 gal
 * See Field Volume Guide following stabilization

* See Field Volume Guide

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

Equipment Decontaminated: 6 / N

Decontamination procedure used: Triple Run Alk Knot

Weather: 590 F 5 mi x

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: Gretna Valley

Date: 8/11/25

Technician: J. Cranford

Quarter: 3

Static Water Level (DTW): 214.47

Well ID: 91mc-244

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
INSUFFICIENT TO PUMP								

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 Mett Drawdown greater than 0.33 ft? Y / N If yes, required pump vol (gal): _____ Actual vol. pumped (gal) _____

* See Field Volume Guide

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

Equipment Decontaminated: ⑨/ N

Decontamination procedure used: 1. 100% EtOH 716160x

Weather: 61° 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:

Notes: unable to pump, due to extreme salinity
waters



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley Date: 8/11/25
 Technician: J. Cranford Quarter: 3
 Static Water Level (DTW): 92.18 Well ID: GLWW-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
12:15			6.71	2046	12.11	4.36	46.1	
12:20	92.39	0.21	6.60	2007	9.46	3.82	23.0	
12:25	92.46	0.17	6.80	1074	9.56	3.72	80.1	0.06 gpm
12:30	92.47	0.01	6.79	2035	9.30	3.46	80.5	
12:35	92.48	0.01	6.74	2048	9.35	3.21	85.4	
12:40	92.48	0.00	6.62	2053	9.35	3.01	45.9	
12:45	92.50	0.02	6.56	2059	9.67	2.57	100.8	
12:50	92.50	0.00	6.54	2053	9.49	2.33	103.2	
12:55	92.51	0.01	6.53	2041	9.60	2.25	106.6	
1:00	92.51	0.00	6.54	2056	9.68	2.20	108.9	
Total Drawdown								
0.43								

Sample Method: low-flow Rate (gpm): 0.06 Time Start: 12:15 Time End: 1:00
 * Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	6.54	±0.1	Y / N
Conductivity	2056	3%	Y / N
Temp (deg C)	9.68	3%	Y / N
Dissolved Oxygen	2.20	10%	Y / N
Turbidity		10%	Y / N
Oxidation/Reduction Potential	108.9	±10	Y / N
DTW Stabilized	92.48	feet	Y / N
Final H2O level	92.51	feet	

If Low Flow Met? Drawdown greater than 0.33 ft? Y N If yes, required pump vol (gal): 0.77 Actual vol. pumped (gal): ~4.5
 * See Field Volume Guide following stabilization

O/G visible: Y / N Turbid? Y / N
 Equipment Decontaminated: Triple rinse, Hicnox
 Decontamination procedure used: _____

Weather: 61°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: Three Well Volumes = 3*V	
Conversions: 1 ft ³ = 7.48 gal 1 gal = 3.785 L	Show Calculations: <u>0.57 + 0.2</u>



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Crown Valley Date: 8/21/25
 Technician: S. Cranford Quarter: 3
 Static Water Level (DTW): 50.55 Well ID: GMW-25
 Is well Dry? no If so Dry at: — Well Depth (TD): 79.25 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO (mg/L)	ORP	Notes
10:35			4.11	5275	9.16	1.56	244.4	
10:40	50.71	0.16	4.12	5298	8.52	1.41	226.1	
10:45	50.73	0.02	4.13	5314	8.33	1.29	256.5	0.12 gpm
10:50	50.67	-0.06	4.14	5319	8.56	1.26	373.6	
10:55	50.67	0.02	4.14	5315	8.72	1.26	382.7	
11:00	50.66	-0.01	4.14	5303	8.63	1.30	396.2	
11:05	50.66	0.00	4.14	5321	8.63	1.34	406.0	
11:10	50.64	-0.02	4.13	5332	8.81	1.39	415.9	
11:15	50.62	-0.02	4.15	5336	8.92	1.43	416.9	
11:20	50.57	-0.05	4.15	5354	9.03	1.46	419.8	
		Total Drawdown						
			0.02					

Sample Method: low-flow Rate (gpm): 0.05 Time Start: 10:35 Time End: 11:20
 * Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	4.13	±0.1	(Y) / N
Conductivity	5354	3%	(Y) / N
Temp (deg C)	9.03	3%	(Y) / N
Dissolved Oxygen	1.46	10%	(Y) / N
Turbidity		10%	(Y) / N
Oxidation/Reduction Potential	419.8	±10	(Y) / N
DTW Stabilized	50.66	feet	(Y) / N
Final H2O level	50.57	feet	

If Low Flow Met: Drawdown greater than 0.33 ft? Y / N If yes, required pump vol (gal): — Actual vol. pumped (gal) 4.5
 * See Field Volume Guide following stabilization

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

Weather: 70°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:	Show Calculations:
1 ft ³ = 7.48 gal	
1 gal = 3.785 L	

QC: T. Beed



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Gross Valley Date: 8/11/25
 Technician: J. Crawford Quarter: 3
 Static Water Level (DTW): 6.46 Well ID: Gumw-26A
 Is well Dry? NO If so Dry at: - Well Depth (TD): 70.65
 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
10:50			7.53	276.0	6.69	0.86	85.8	
10:55	6.59	0.19	7.76	277.8	6.14	0.05	60.5	
11:00	6.72	0.13	7.49	276.8	6.01	0.00	55.5	
11:05	6.84	0.17	7.89	276.1	5.94	0.00	81.0	
11:10	6.89	0.05	7.86	275.6	5.90	0.00	79.8	
11:15	6.92	0.03	7.90	274.7	5.88	0.00	67.7	
11:20	6.93	0.01	7.91	274.0	5.84	0.06	61.5	
11:25	6.93	0.00	7.93	275.1	5.84	0.06	66.8	
Total drawdown								
0.53								

Sample Method: low-flow Rate (gpm): 0.16 Time Start: 10:50 Time End: 11:25
 * Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	7.93	±0.1	Y / N
Conductivity	275.1	3%	Y / N
Temp (deg C)	5.84	3%	Y / N
Dissolved Oxygen	0	10%	Y / N
Turbidity		10%	Y / N
Oxidation/Reduction Potential	66.8	±10	Y / N
DTW Stabilized	6.91	feet	Y / N
Final H2O level	6.93	feet	

If Low Flow Met: Drawdown greater than 0.33 ft? Y / N If yes, required pump vol (gal): 0.71 Actual vol. pumped (gal): 3.5
 * 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: $0.3 + 0.41 = 0.71$



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: goss, valley

Date: 8/11/25

Technician: J. Crunford

Quarter: 3

Static Water Level (DTW): 6.46

Well ID: Gumw-26A

Is well Dry? no

If so Dry at: -

Well Depth (TD): 70.65
feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO (mg/l)	ORP	Notes
10:50			7.53	276.0	6.69	0.85	85.8	
10:55	60.59	0.19	7.76	277.8	6.14	0.05	60.5	
11:00	61.72	0.13	7.79	276.8	6.01	0.00	66.5	
11:05	61.84	0.12	7.83	276.1	5.94	0.00	81.0	
11:10	61.89	0.05	7.86	275.6	5.90	0.00	79.8	
11:15	61.92	0.03	7.90	274.7	5.88	0.00	67.7	
11:20	61.93	0.01	7.91	274.6	5.84	0.00	61.5	
11:25	61.93	0.00	7.93	275.1	5.84	0.00	66.8	
Total drawdown								
0.53								

Sample Method: low-flow Rate (gpm): 0.16 Time Start: 10:50 Time End:
* Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	7.93	Y / N	
Conductivity	275.1	Y / N	
Temp (deg C)	5.84	Y / N	
Dissolved Oxygen	0	Y / N	
Turbidity		Y / N	
Oxidation/Reduction Potential	66.8	Y / N	
DTW Stabilized	6.91	Y / N	
Final H2O level	6.93		

If Low Flow Met! Drawdown greater than 0.33 ft? Y / N If yes, required pump vol (gal): 0.71 Actual vol. pumped (gal): 3.5
* 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: 1 ft ³ = 7.48 gal 1 gal = 3.785 L	Show Calculations: $0.3 + 0.41 = 0.71$



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy ValleyDate: 8/11/25Technician: S. CranfordQuarter: 3Static Water Level (DTW): 6.32Well ID: GUMW-26BIs well Dry? noIf so Dry at: — feetWell Depth (TD): 25.85

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
9:57			6.24	106.4	7.70	7.31	223.5	
10:07	6.39	0.07	6.30	108.0	6.44	7.30	179.7	
10:07	6.40	0.01	6.13	108.5	6.27	7.27	167.2	0.12 gpm
10:12	6.41	0.01	6.16	108.4	6.26	7.25	153.8	
10:17	6.42	0.01	6.08	109.2	6.30	7.21	153.3	
10:22	6.42	0.00	6.10	109.4	6.29	7.17	152.3	
Total Drawdown								
0.10								

Sample Method: low-flow Rate (gpm): 0.12 Time Start: 9:57 Time End: 10:22
 * Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	6.10	Y / N	
Conductivity	109.4	Y / N	
Temp (deg C)	6.29	Y / N	
Dissolved Oxygen	7.17	Y / N	
Turbidity	—	Y / N	
Oxidation/Reduction Potential	152.3	Y / N	
DTW Stabilized	6.42	Y / N	
Final H2O level	6.42	Y / N	

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, Aicknox

Weather: 58°F, SunnySignature: [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:

Groundwater Sampling Log

Well Depth (TD): 74.28
feet

Total drawdown
0.13

* Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	4.79	±0.1	(Y) / N
Conductivity	2354	3%	(Y) / N
Temp (deg C)	9.28	3%	(Y) / N
Dissolved Oxygen	6.20	10%	(Y) / N
Turbidity		10%	(Y) / N
Oxidation/Reduction Potential	292.9	±10	(Y) / N
DTW Stabilized	55.30	feet	(Y) / N
Final H2O level	55.30	feet	

* See Field Volume Guide

O/G visible: Y (Y) N (N) Turbid? Y (Y) N (N)
Equipment Decontaminated: Y (Y) N (N)
Decontamination procedure used: Triple rinse, flickox

Weather: 72°F, Sunny
Signature: [Signature]

QC: T. Reed

Groundwater Sampling Log

Log _____
Date: 8/20/25

Quarter: 3

Well ID: GUMU-28

Is well Dry? no If so Dry at: - Well Depth (TD): 71.56 feet

total
Drew Jones
0.07

* 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) 1.0 gal
 * See Field Volume Guide following stabilization

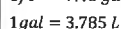
Turbid? ☒ Y / N Slightly

Decontamination procedure used: triple base liquid box

Weather: 70° 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:



Groundwater Sampling Log

Date: 8/20/05

Quarter: 3

Well ID: C-Lined-31

If so Dry at: 61.14

Well Depth (TD): 61.45
feet

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

If Low Flow Met³ Drawdown greater than 0.33 ft? ~~Y / N~~ If yes, required pump vol (gal): _____ Actual vol. pumped (gal) _____
* See Field Volume Guide following stabilization

Turbid? ~~Y~~ / ~~N~~

Decontamination procedure used: Triple rinse, 416000

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:

Groundwater Sampling Log

Date: 8/26/25

Quarter: 3

Well ID: Gumw-32

Well Depth (TD): 69.17
feet

Sample Method: _____ Rate (gpm): _____ Time Start: _____ Time End: _____

^a 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): _____

* See Field Volume Guide

O/G visible:

Turbid? Y / N

Equipment Decontaminated:

Decontamination procedure used:

Weather: 59°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:

Groundwater Sampling Log

Log _____
Date: 8/20/25

Quarter: 3

Well ID: 60mu-33

Well Depth (TD): 85.70'

If so Dry at: _____ feet

total
Draw Down
2.64"

* Flow rate at stabilization (during sample collection)

	N
	/ N
	/ N
	/ N
	/ N
	/ N
	/ N
Y /	

* See Field Volume Guide

Turbid? Y / ☒ N

d: triple Rinse Alc Knox

70°F Sunny

[Signature]

$$0.46 + 1.9 = 2.36 \text{ gal}$$

Groundwater Sampling Log

If so Dry at: _____ Well Depth (TD): 64.62
feet

Sample Method: low-flow Rate (gpm): 0.04 Time Start: 11:48 Time End: 12:28
* Flow rate at stabilization (during sample collection)

If Low Flow Met¹ Drawdown greater than 0.33 ft? Q / N If yes, required pump vol (gal): 0.95 Actual vol. pumped (gal) 27.3
 * See Field Volume Guide following stabilization

Turbid? Y / N

Talple rise, Aiclox

Signature:

votes:

Groundwater Sampling Log

Date: 8/2/25

Quarter: 3

Well ID: Guma-35A

If so Dry at: _____

Well Depth (TD): _____
feet

Sample Method: Grab Rate (gpm): — Time Start: 11:15 Time End: 11:15
** 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): Actual vol. pumped (gal)
following stabilization

* See Field Volume Guide

Turbid? Y / ~~N~~

Decontamination procedure used: Deltacarb Pen II

Signature: _____

Notes wasn't able to get to + static water level
Not able to drop sonder down well



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
 Technician: J. Crawford
 Static Water Level (DTW): 32.96

Date: 8/27/25
 Quarter: 3
 Well ID: UUMW-35B
 Well Depth (TD): 72.60
 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
8:53			9.02	2367	7.55	1.45	235.8	
8:55	33.31	0.35	8.21	2413	7.46	0.54	261.9	
9:05	33.55	0.24	7.86	2421	7.81	0.44	221.3	
9:08	33.79	0.24	7.67	2422	7.07	0.30	175.1	
9:13	33.94	0.26	7.59	2423	7.12	0.23	10.5	
9:18	34.27	0.28	7.63	2406	7.08	0.21	64.4	
9:23	34.38	0.11	7.65	2402	7.10	0.19	62.9	
		Total drawdown						
		1.42						

Sample Method: low-flow Rate (gpm): 0.04 Time Start: 8:53 Time End: 9:23
 * Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	7.65	±0.1	Y / N
Conductivity	2402	3%	Y / N
Temp (deg C)	7.10	3%	Y / N
Dissolved Oxygen	0.19	10%	Y / N
Turbidity		10%	Y / N
Oxidation/Reduction Potential	62.9	±10	Y / N
DTW Stabilized	34.38	feet	Y / N
Final H2O level	34.38	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: Triple rinse, TIC Knox

Weather: 49°F, 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: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$ Well Volume Purge Method: Three Well Volumes = 3*V	
Conversions: 1ft ³ = 7.48 gal 1gal = 3.785 L	Show Calculations:

notes: water level did not stabilize
 well is known not to have good recovery
 all other parameters stabilized



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Grassy Valley

Technician: J. Greenberg

Static Water Level (DTW): 33.81

Date: 6/12/25

Quarter: 3

Well ID: GUMW-37A

Is well Dry? NO

If so Dry at:

Well Depth (TD): 201.20 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO (mg/l)	ORP	Notes
10:20			9.18	650.5	7.6	4.25	58.7	
10:25	33.84	0.03	9.26	638.8	7.1	3.55	35.9	
10:30	33.85	0.01	9.28	635.3	7.1	3.09	15.3	0.13 gpm
10:35	33.86	0.01	9.29	634.3	7.1	2.80	3.9	
10:40	33.86	0.00	9.29	631.8	7.2	2.39	-12.4	
10:45	33.87	0.01	9.26	633.0	7.3	2.23	-15.9	
10:50	33.87	0.00	9.27	632.4	7.3	2.20	-20.5	
Total drawdown								
0.07								

Sample Method: 10w-flow

Rate (gpm): 0.13

Time Start: 10:20

Time End: 10:50

* Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	9.27	Y / N	
Conductivity	632.4	Y / N	
Temp (deg C)	7.3	Y / N	
Dissolved Oxygen	2.20	Y / N	
Turbidity		Y / N	
Oxidation/Reduction Potential	-20.5	Y / N	
DTW Stabilized	33.86	Y / N	
Final H2O level	33.87		

If Low Flow Met: Drawdown greater than 0.33 ft? Y

If yes, required pump vol (gal):

Actual vol. pumped (gal) ~ 3.5

* See Field Volume Guide

following stabilization

O/G visible: Y / N

Equipment Decontaminated: Y / N

Decontamination procedure used: Tablet rinse, Aicknox

Turbid? Y / N

Weather: 62° 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:

Show Calculations:

1ft³ = 7.48 gal

1gal = 3.785 L

Qc.T. Reed

Groundwater Sampling Log

og
Date: 8/12/25

Quarter: 3

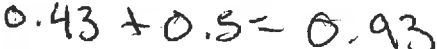
Well ID: 60MW-37B

Is well Dry? NO If so Dry at: — Well Depth (TD): 74.69
feet

Sample Method: low flow Rate (gpm): 0.10 Time Start: 10:16 Time End: 10:36
* Flow rate at stabilization (during sample collection)

If Low Flow Mett Drawdown greater than 0.33 ft? ☒ Y ☐ N If yes, required pump vol (gal): 0-93 Actual vol. pumped (gal) ~4 gal
* See Field Volume Guide following stabilization

Weather: 59° 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: 

Groundwater Sampling Log

Grassy Valley

8/14/25

Silvanport

2

OS ABH-12

yes

38,61

Well Depth (TD): _____
feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/l	ORP	Notes
Dry								

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	

~~Y/N~~

Actual vol. pumped (gal)

* See Field Volume Guide

~~Y / N~~
~~Y / N~~

TT N

Y/N

To: Prie rinse, A / C know

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: $h(ft) = \text{Total Depth}(TD)(ft) - \text{Depth to Water}(DTW)(ft)$

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:

Groundwater Sampling Log

Well Depth (TD): 29
feet

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

If Low Flow Met³ Drawdown greater than 0.33 ft? Y / N If yes, required pump vol (gal): Actual vol. pumped (gal)
* See Field Volume Guide following stabilization

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:

Groundwater Sampling Log

Date: 0/0/25

Quarter: 3

Well ID: 05.AB A-17

If so Dry at:

Well Depth (TD): 70
feet

Total
Protein
0.44

Time Start: 10:30 Time End: 2:20

* Flow rate at stabilization (during sample collection)

10'.415

Initial Parameter	Stabilization Guidance	Met?	Comments
pH	2.03	±0.1	Y / N
Conductivity	14.778	3%	Y / N
Temp (deg C)	7.71	3%	Y / N
Dissolved Oxygen	0.36	10%	Y / N
Turbidity		10%	Y / N
Oxidation/Reduction Potential	552.5	±10	Y / N
DTW Stabilized	15.75	feet	Y / N
Final H2O level	15.75	feet	

If yes, required pump vol (gal): 0.77 Actual vol. pumped (gal) ~ 2 gal

* See Field Volume Guide

following stabilization

Y / O

Turbid? ☒ N slightly

Triple Angle Alc Knot

66° F Sunday

66 3/4 3/4 3/4

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:

$$0.17 + 0.1 \geq 0.27$$

Groundwater Sampling Log

og 8/11/25

Quarter: 3

Well ID: OSA BH-18

Well Depth (TD): 52'
feet

Sample Method: _____ Rate (gpm): _____ Time Start: _____ Time End: _____
 * 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) _____
* See Field Volume Guide following stabilization

Turbid? Y / N

Triple rinse, thick

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:



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

Location: RB-0820

Date: 8/20/25

Technician: J. Reed

Quarter: 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
1:50	6.12	163.4	20.1	158

Sample Method: N/A

Oil/Gas visible [Y/N]

Turbid [Y/N]

Clear [Y/N]

Weather: 70° 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
Ground Water Sampling Log

Location: Serp - 1

Date: 8/25/25

Technician: J. Cranford

Quarter: 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
9:27	2.62	13.31	17.5	543

Sample Method: grab

Oil/Gas visible [Y/N]

Turbid [Y/N]

Clear [Y/N]

Weather: 57°F, overcast

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
Ground Water Sampling Log

Location: Seep-2

Date: 8/25/25

Technician: J. Cranford

Quarter: 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
11:03	2.81	13.27	18.0	473

Sample Method: grab

Oil/Gas visible [Y/N]

Turbid [Y/N]

Clear [Y/N]

Weather: 59°F, overcast

Signature: [Signature]

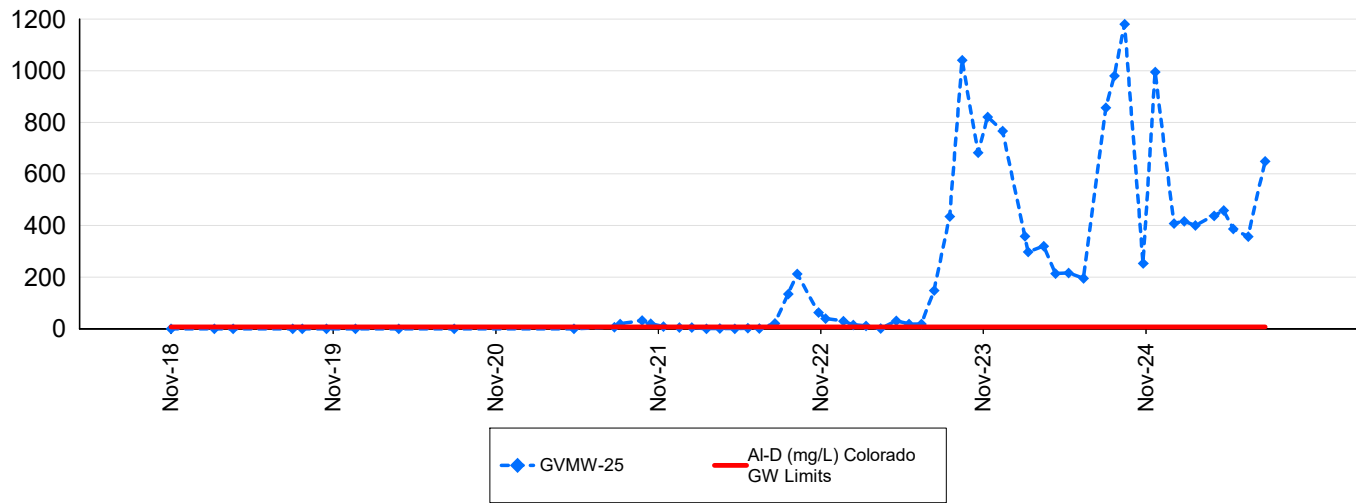
Comments / Notes:

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

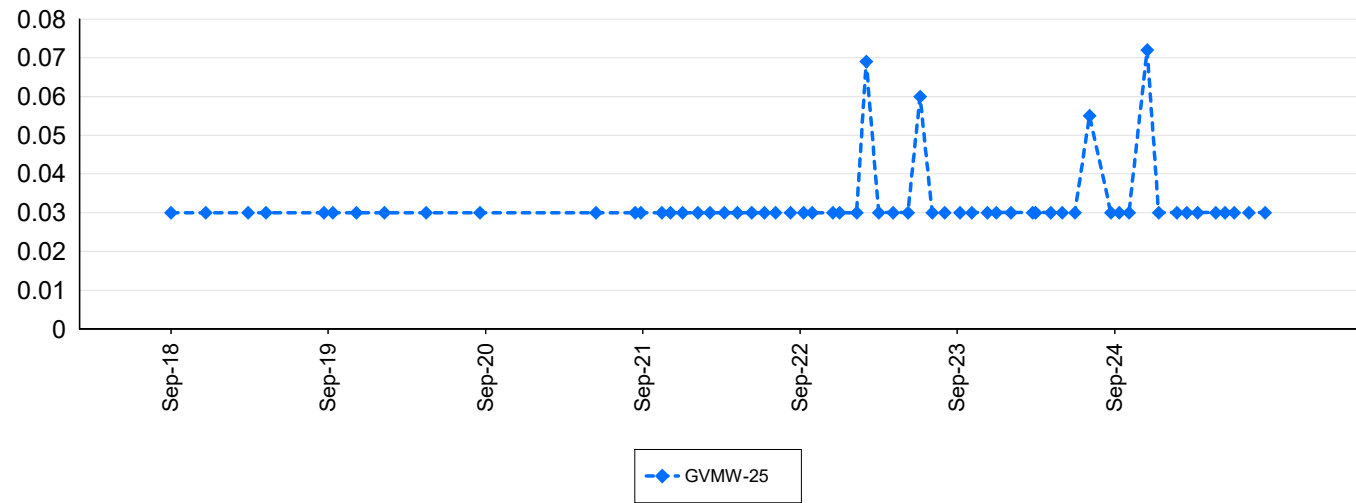
Attachment 4

GVMW-25 Historical Graphs

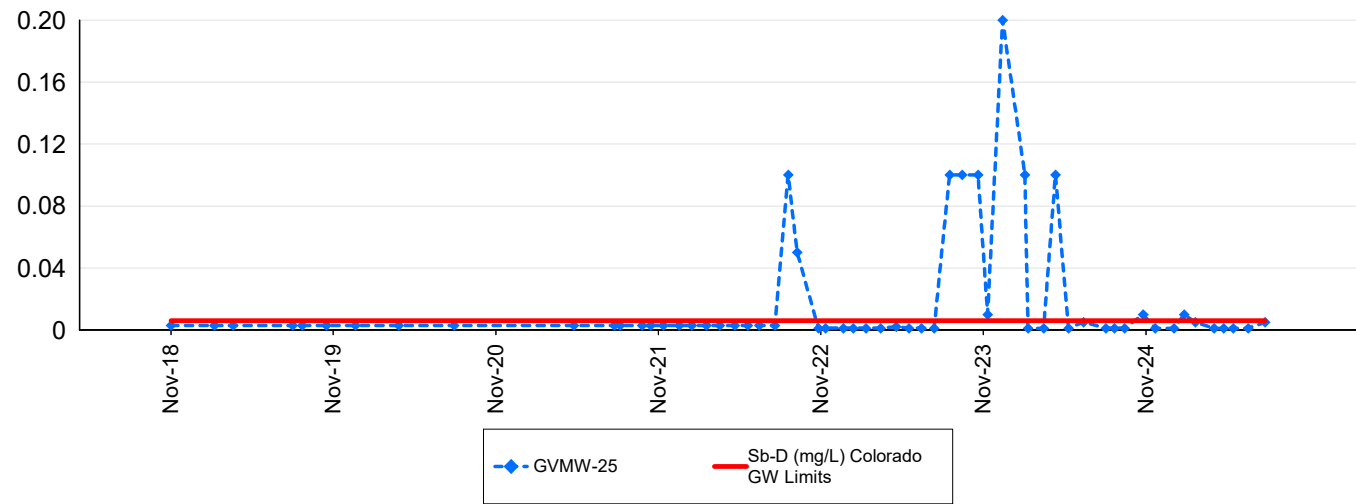
: Aluminium - Dissolved (mg/L)



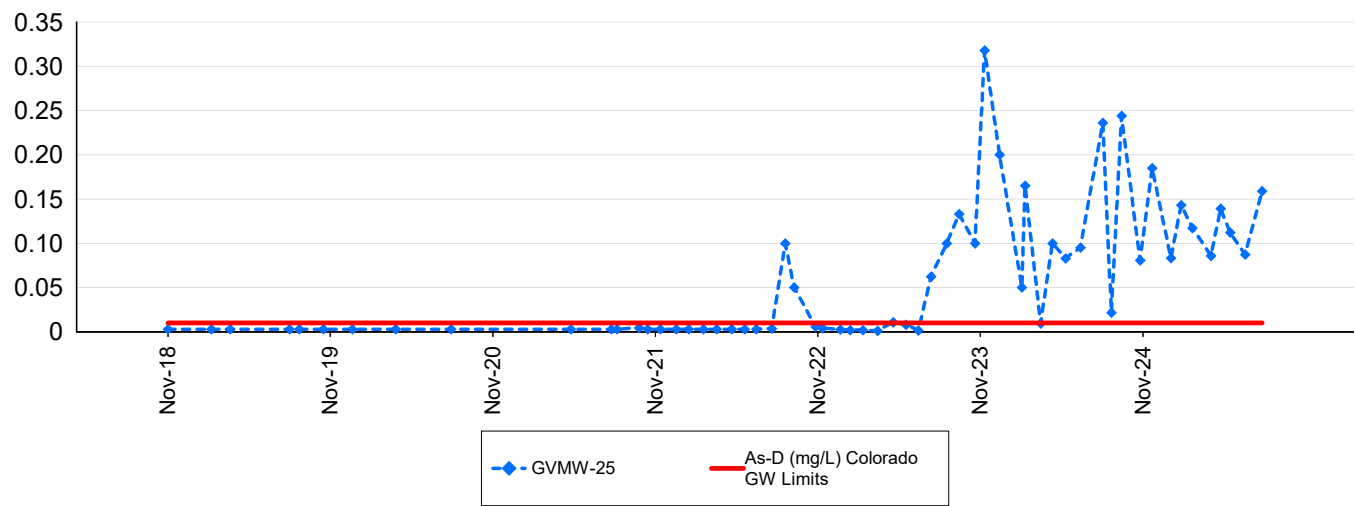
: Ammonia (mg/L)



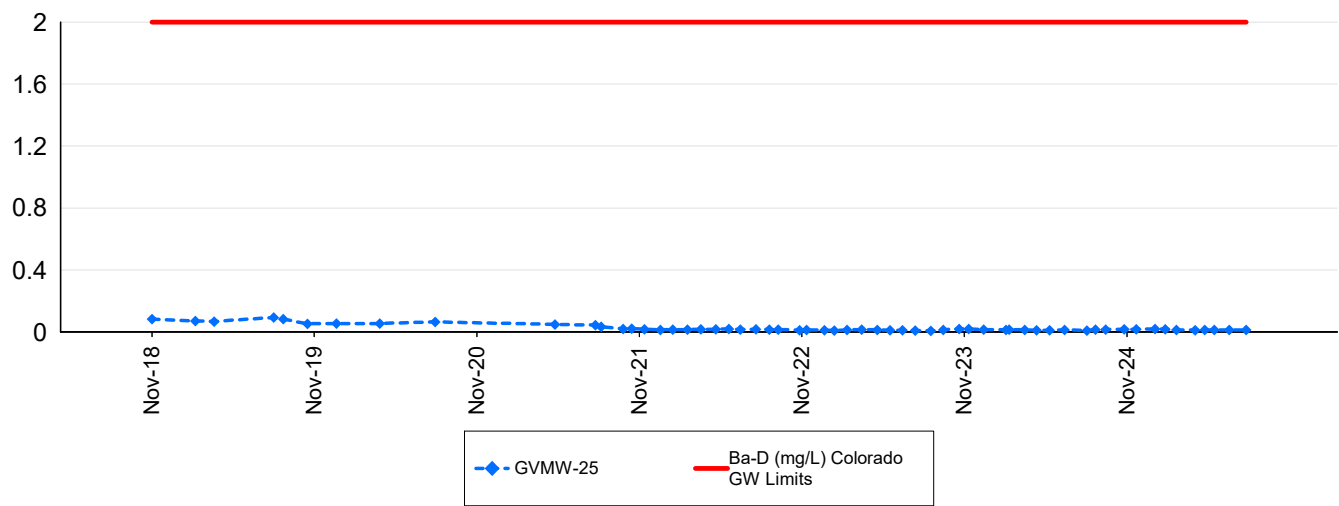
: Antimony - Dissolved (mg/L)



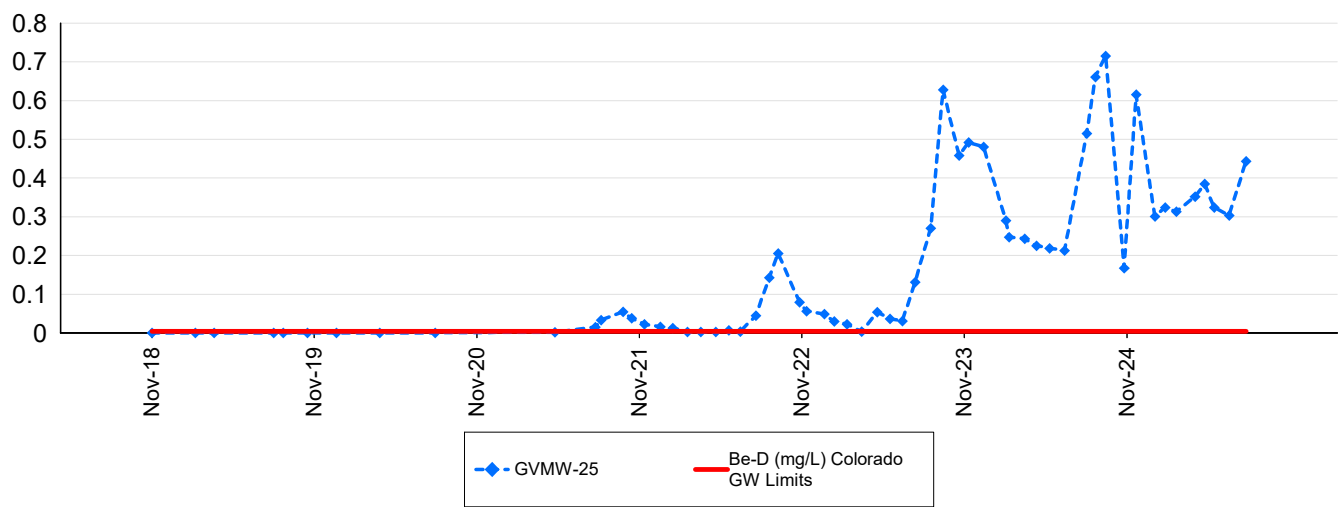
: Arsenic - Dissolved (mg/L)



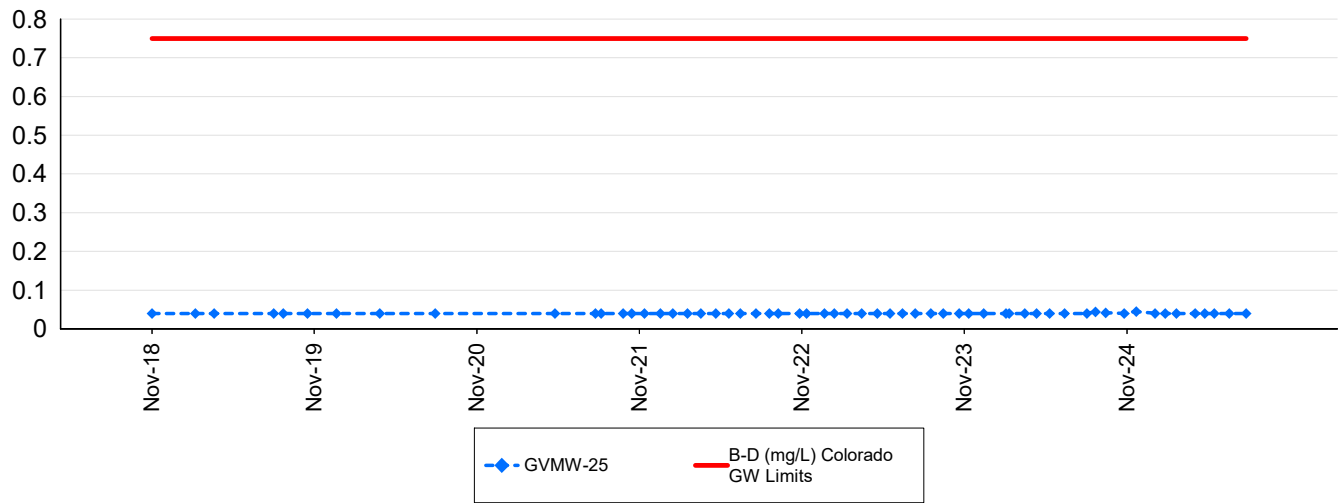
: Barium - Dissolved (mg/L)



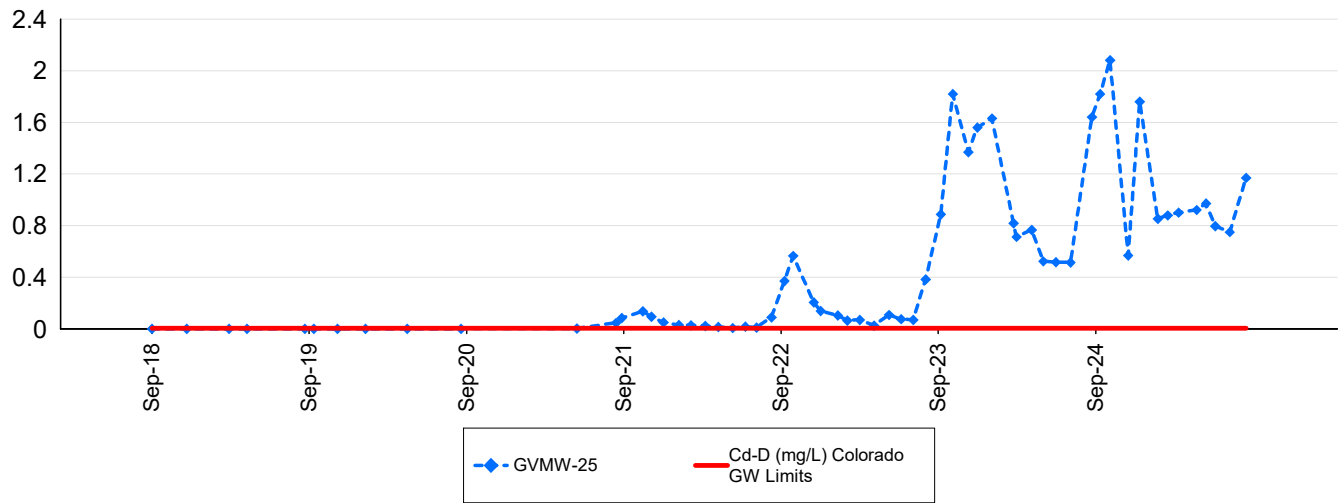
: Beryllium - Dissolved (mg/L)



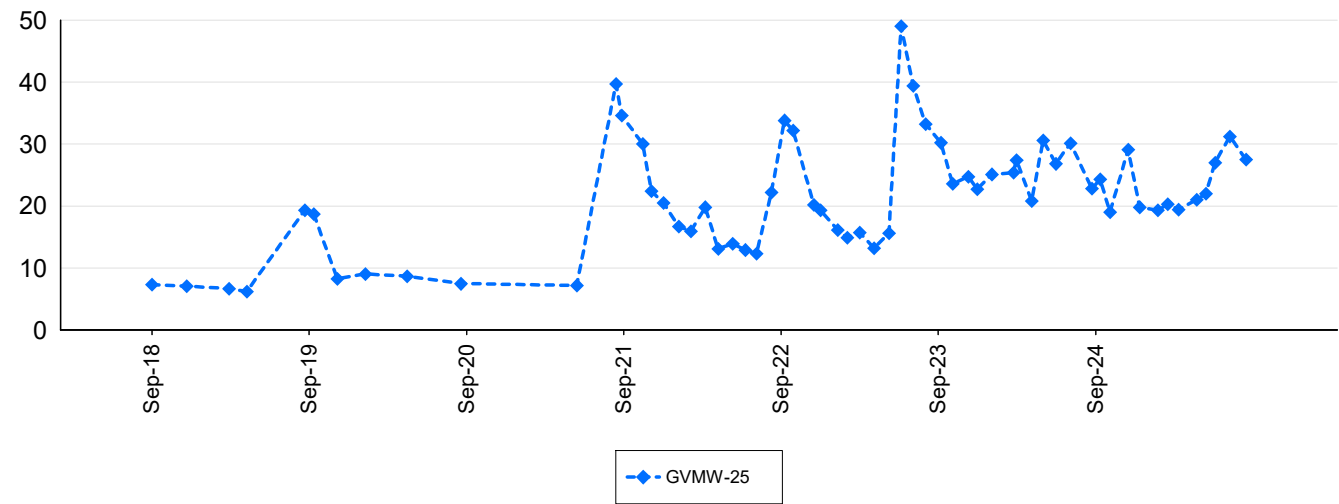
: Boron - Dissolved (mg/L)



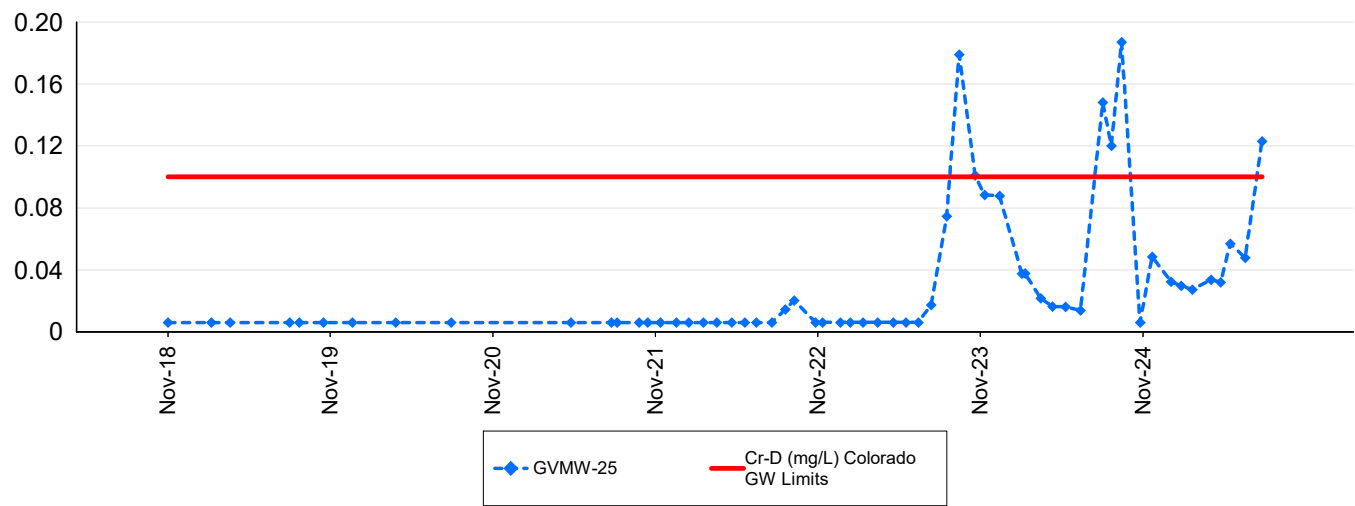
: Cadmium - Dissolved (mg/L)



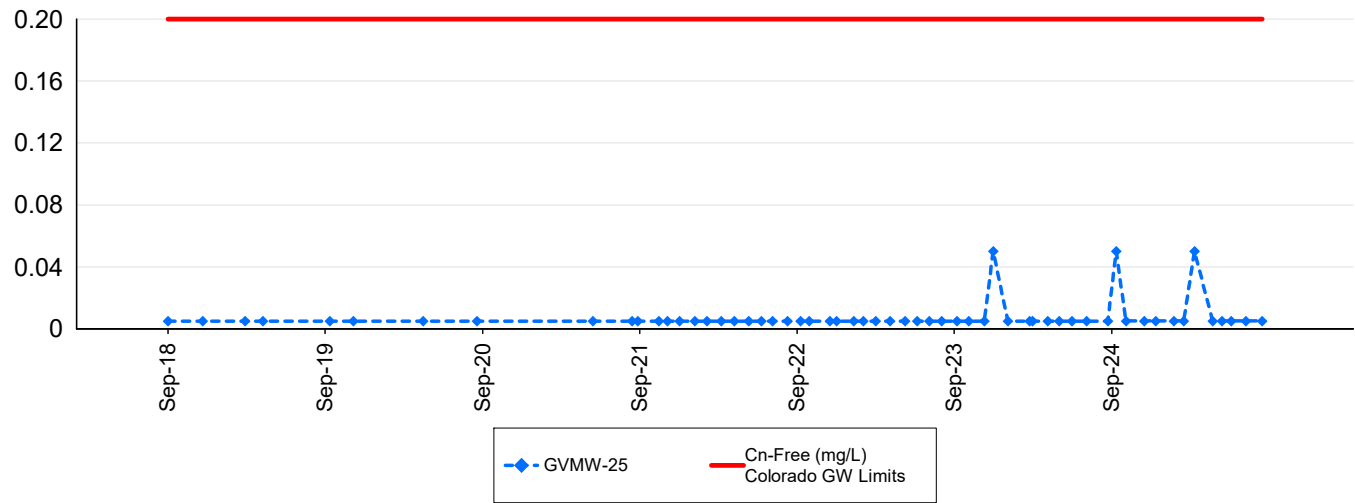
: Chloride - Total (mg/L)



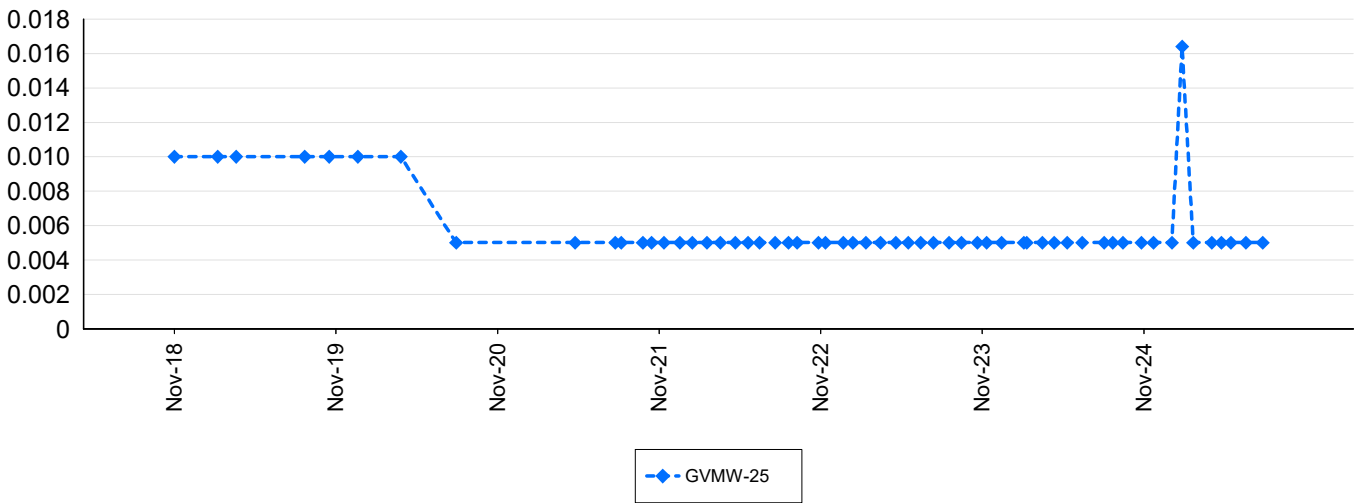
: Chromium - Dissolved (mg/L)



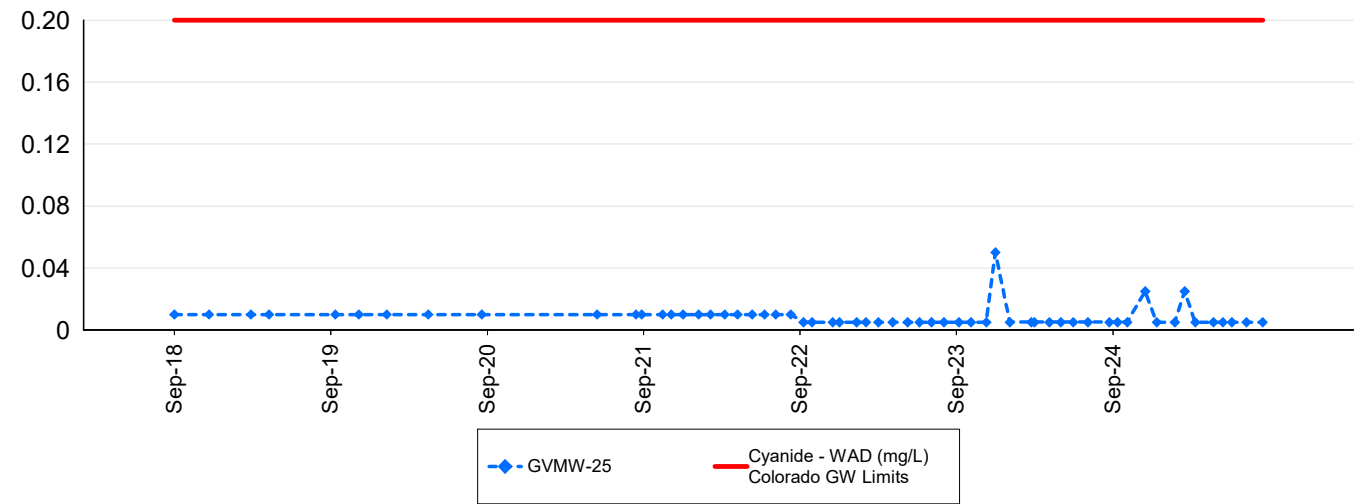
: Cyanide - Free (mg/L)



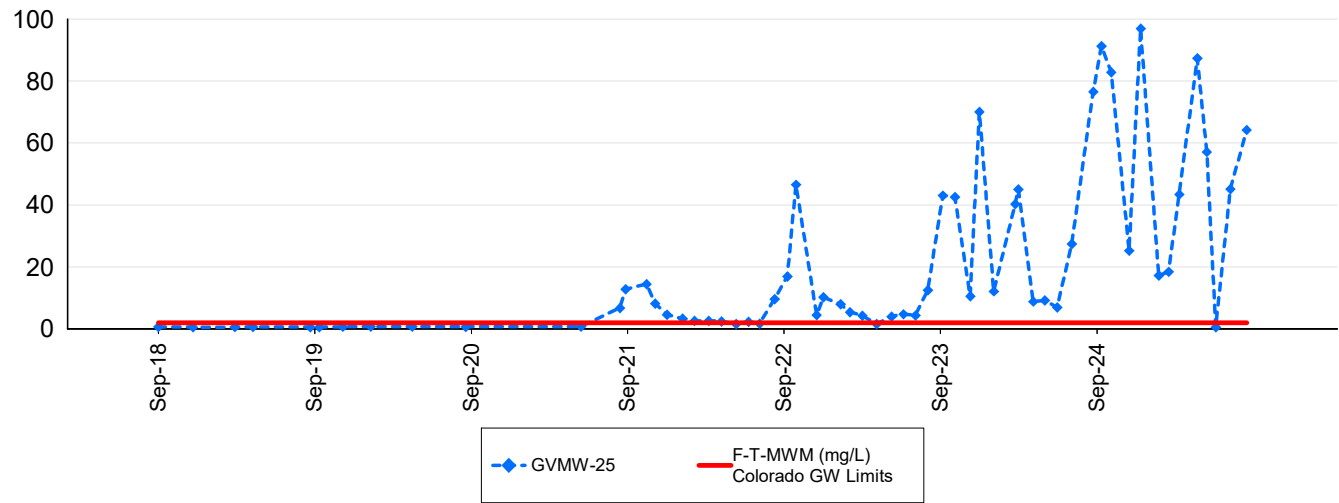
: Cyanide - Total (mg/L)



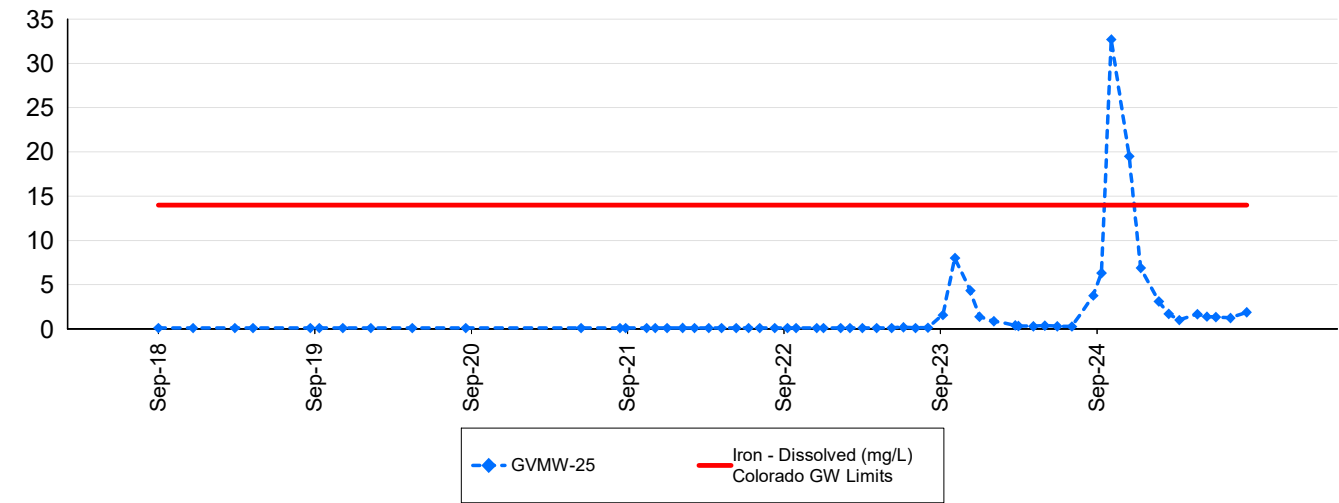
: Cyanide - WAD (mg/L)



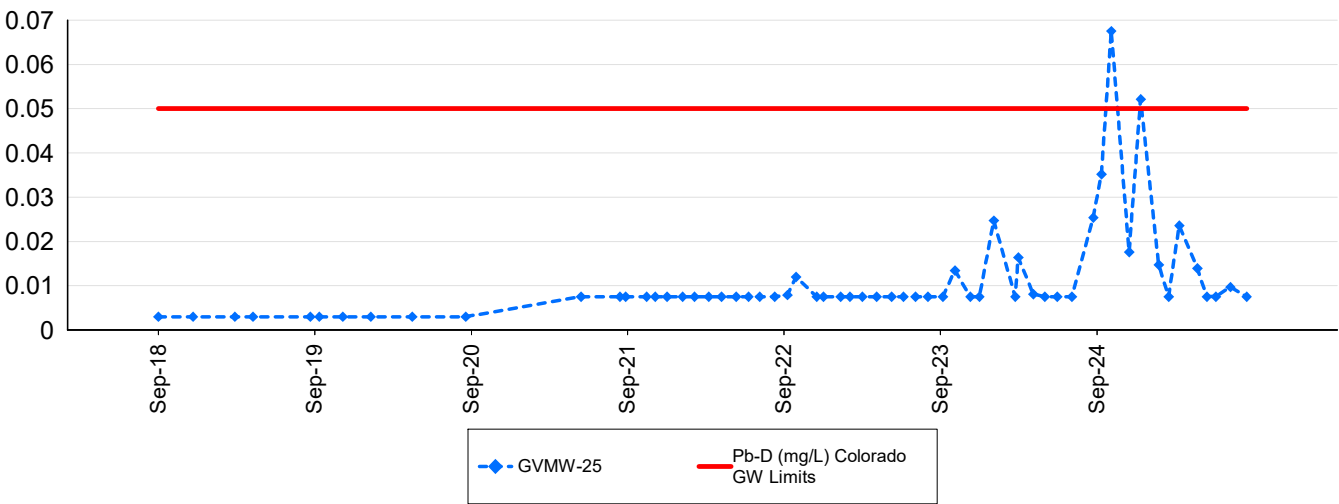
: Fluoride - Total F (mg/L)



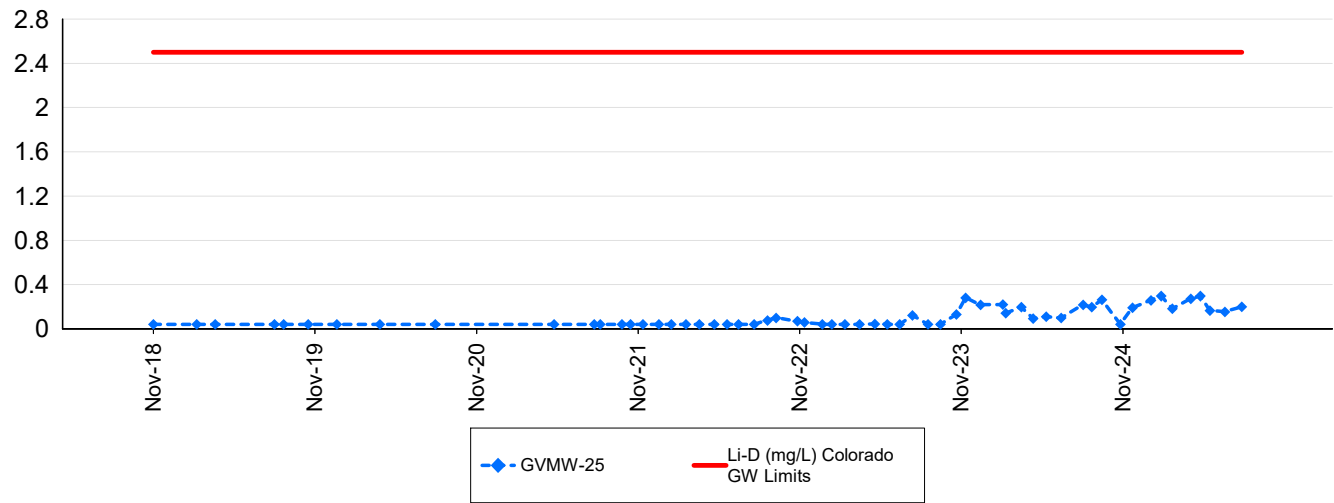
: Iron - Dissolved (mg/L)



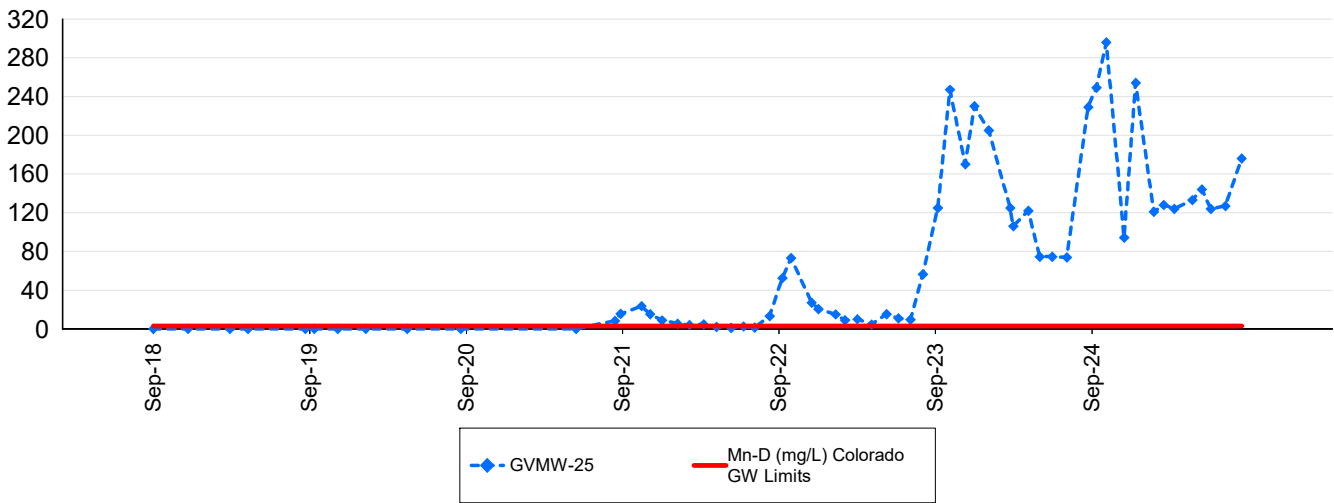
: Lead - Dissolved (mg/L)



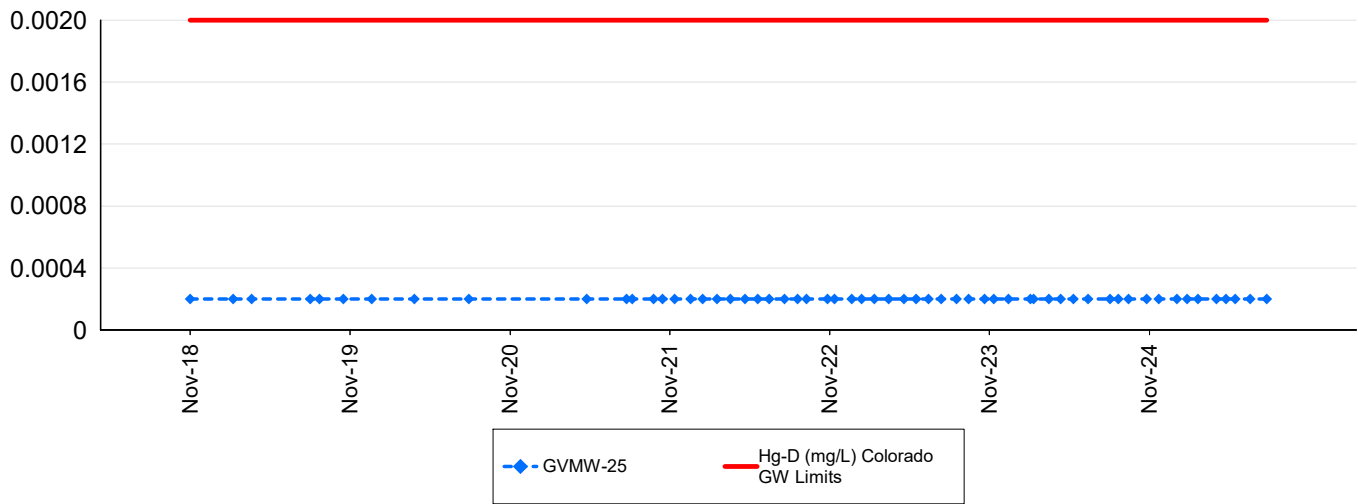
: Lithium - Dissolved (mg/L)



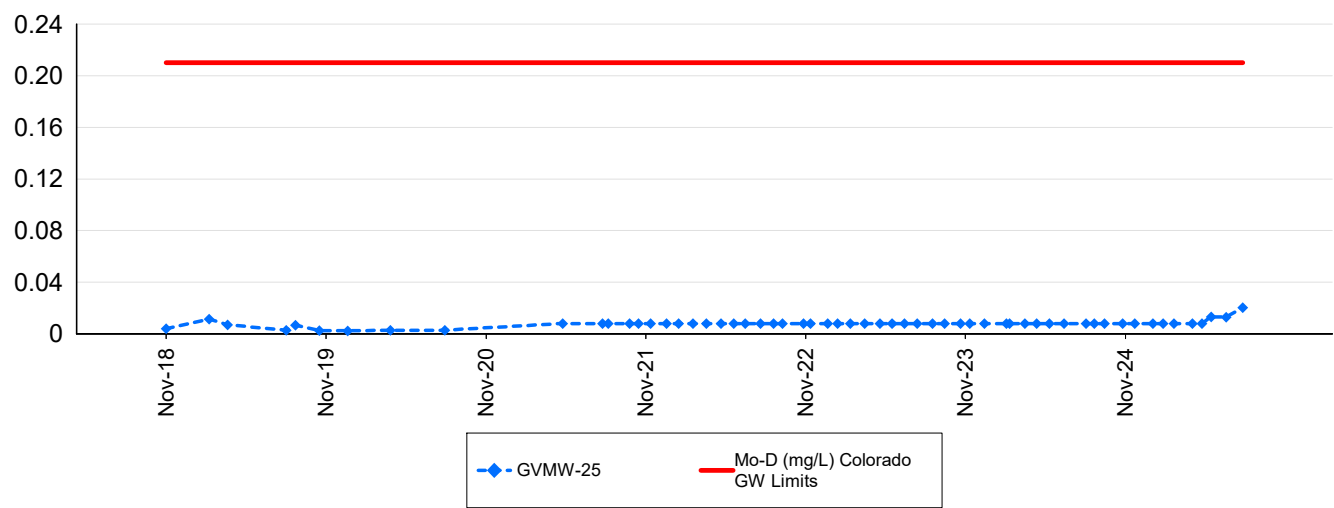
: Manganese - Dissolved (mg/L)



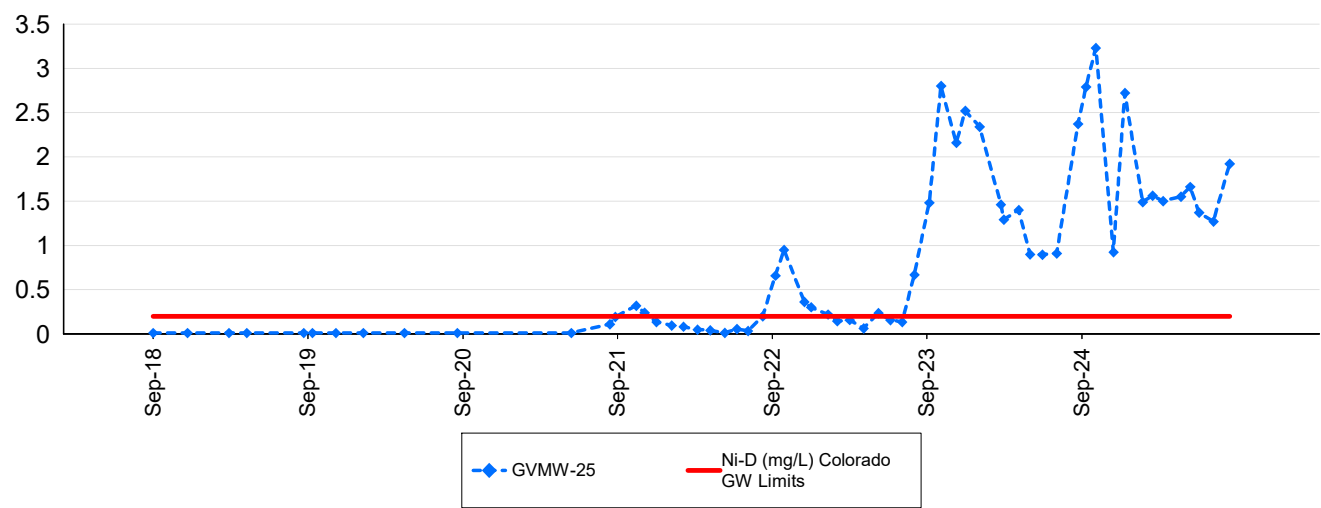
: Mercury - Dissolved (mg/L)



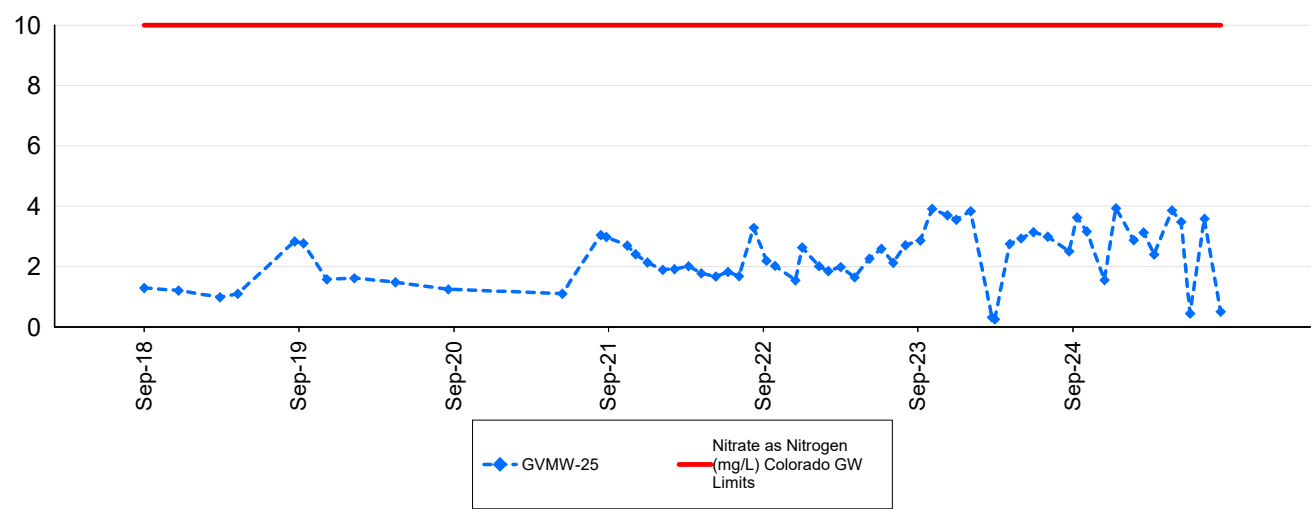
: Molybdenum - Dissolved (mg/L)

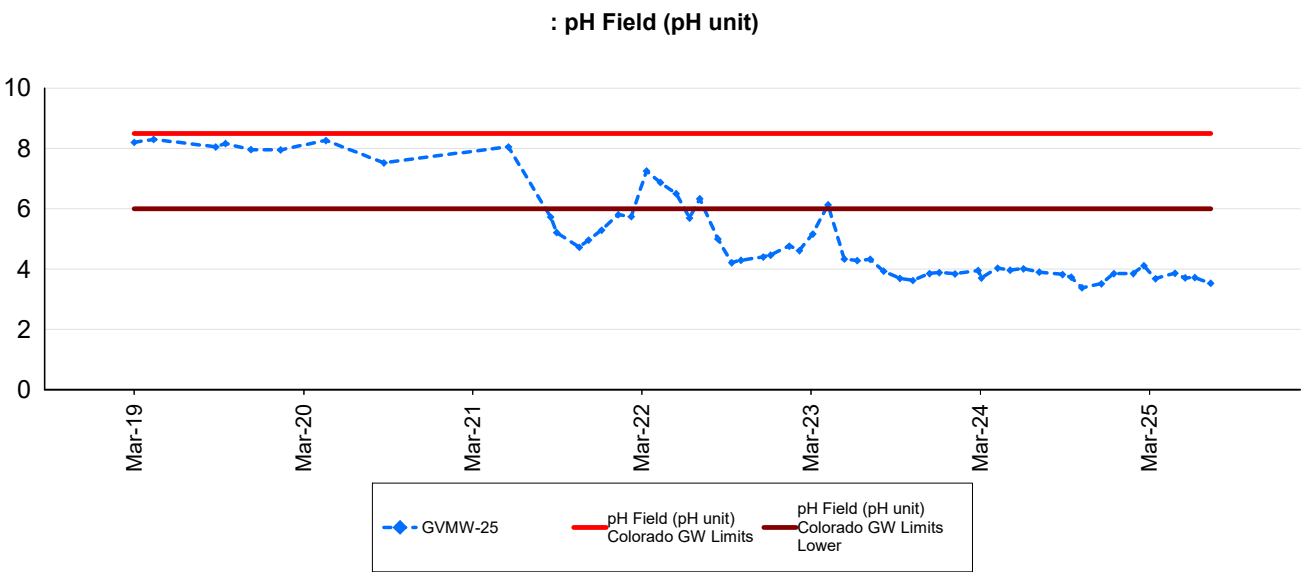
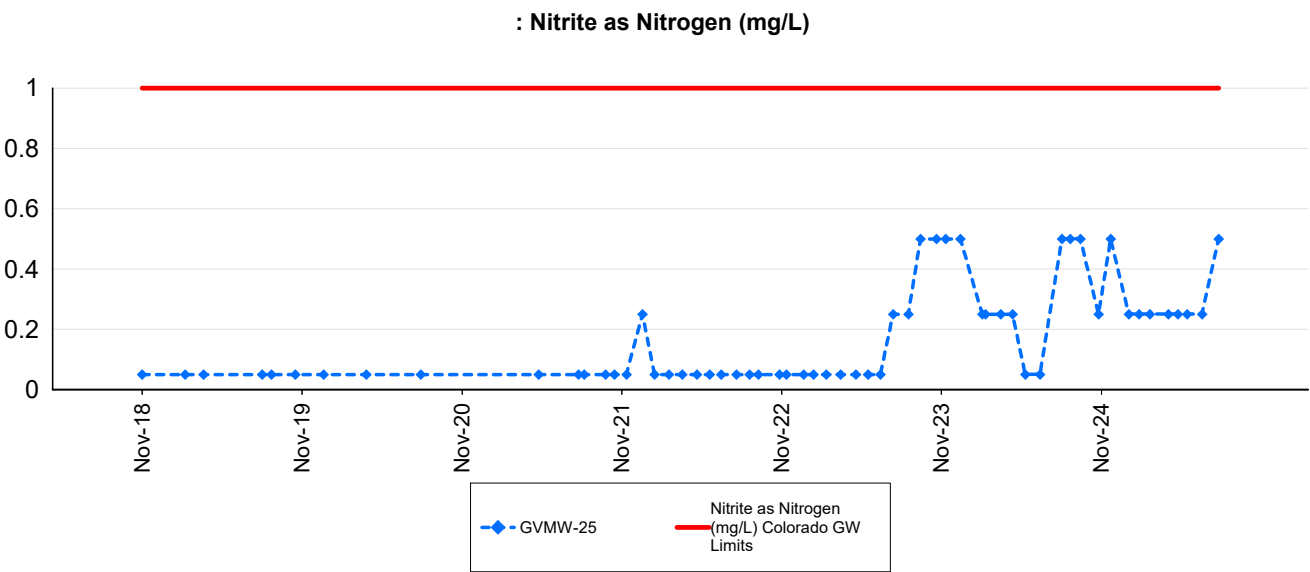
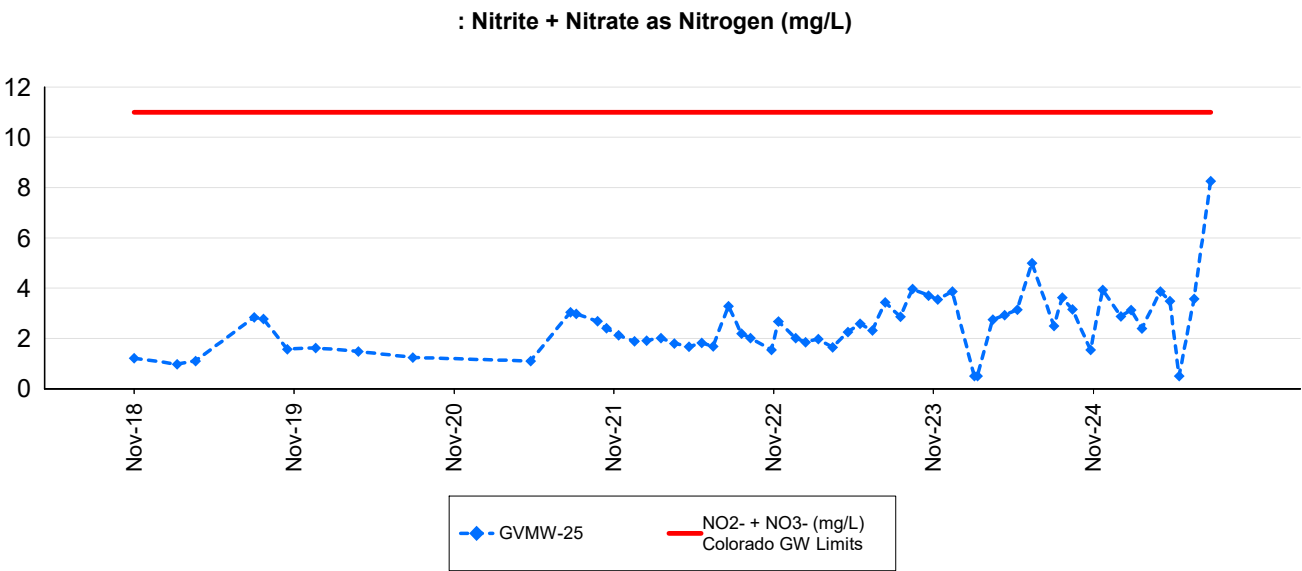


: Nickel - Dissolved (mg/L)

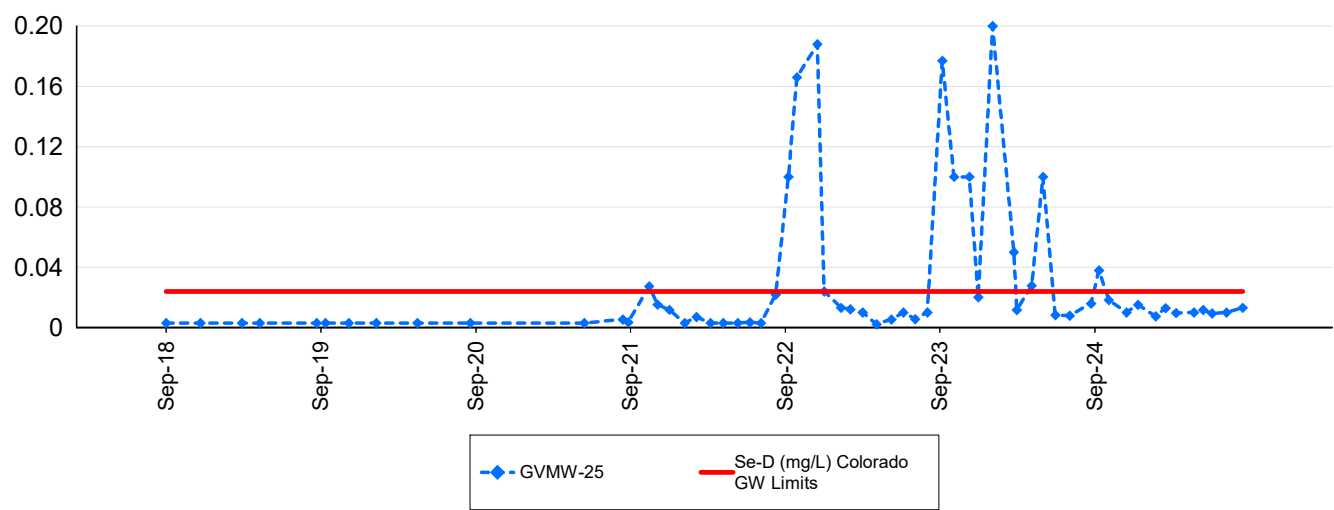


: Nitrate as Nitrogen (mg/L)

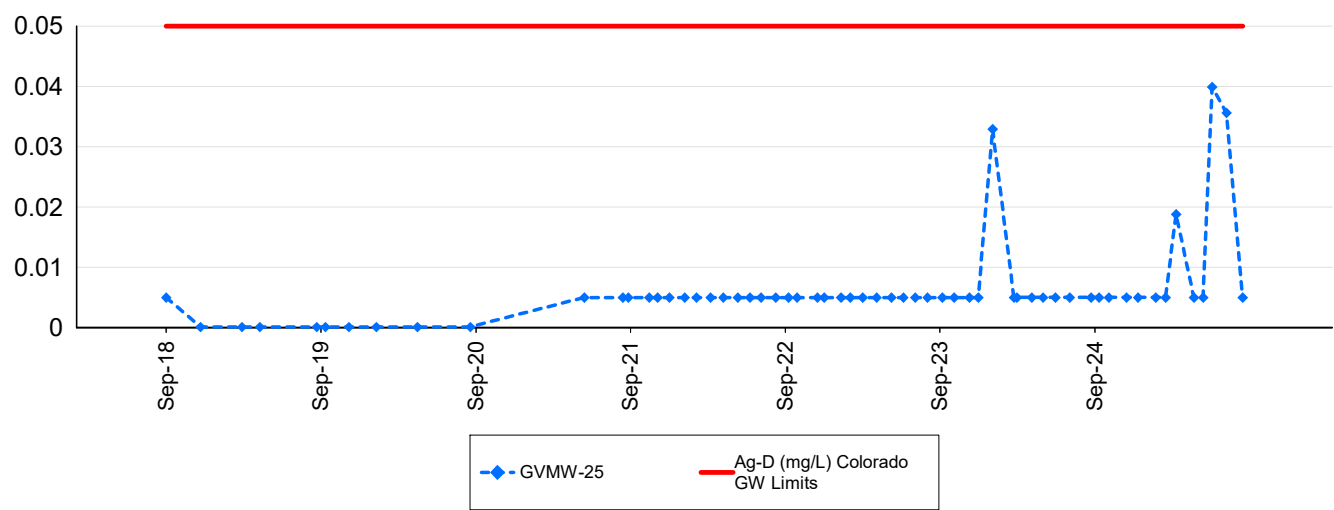




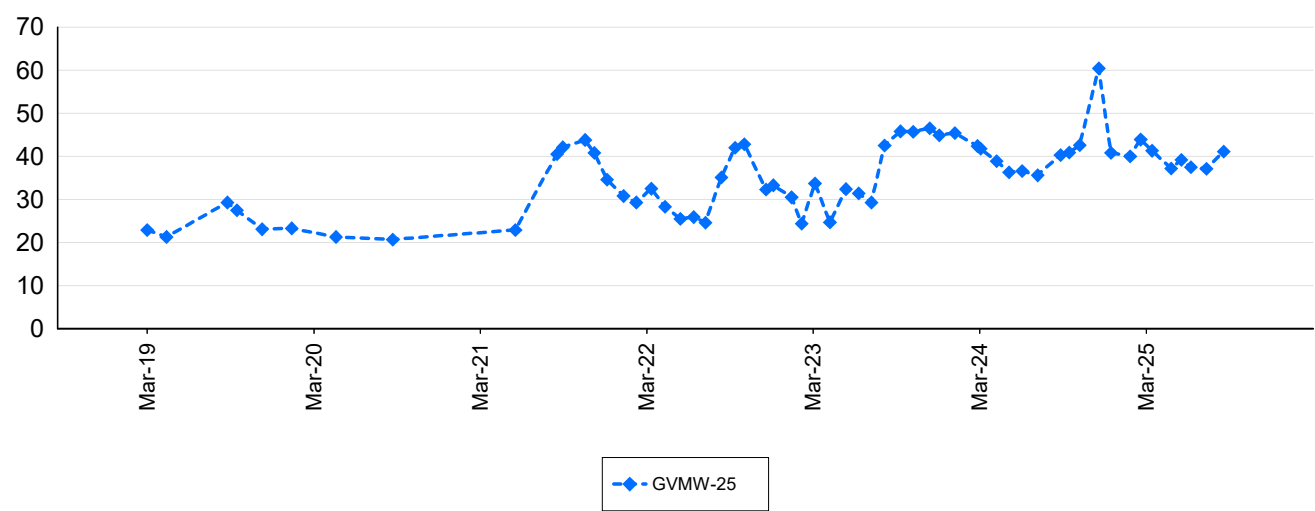
: Selenium - Dissolved (mg/L)



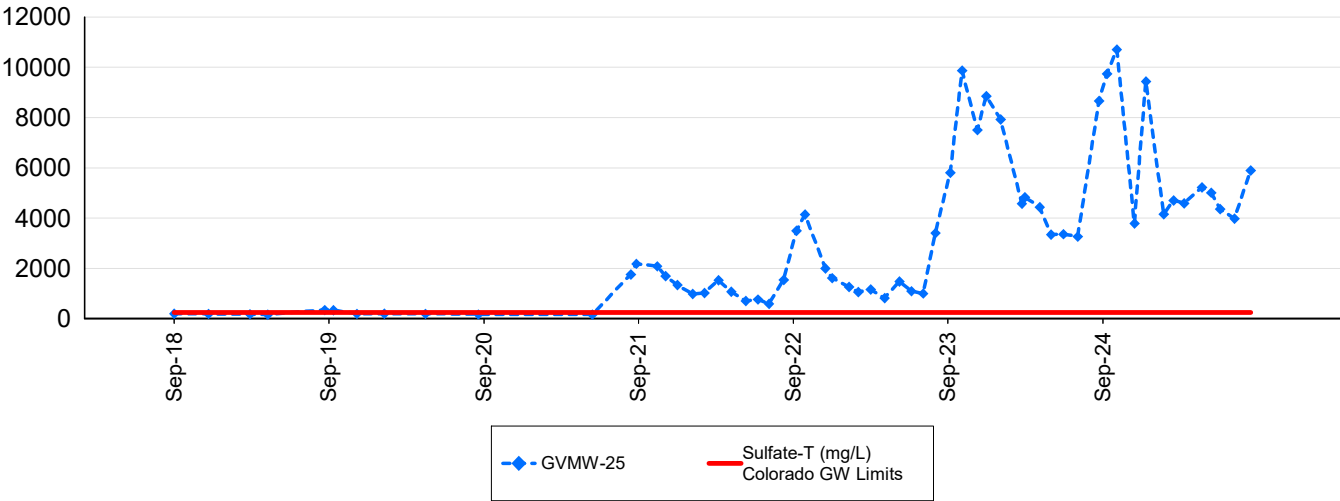
: Silver - Dissolved (mg/L)



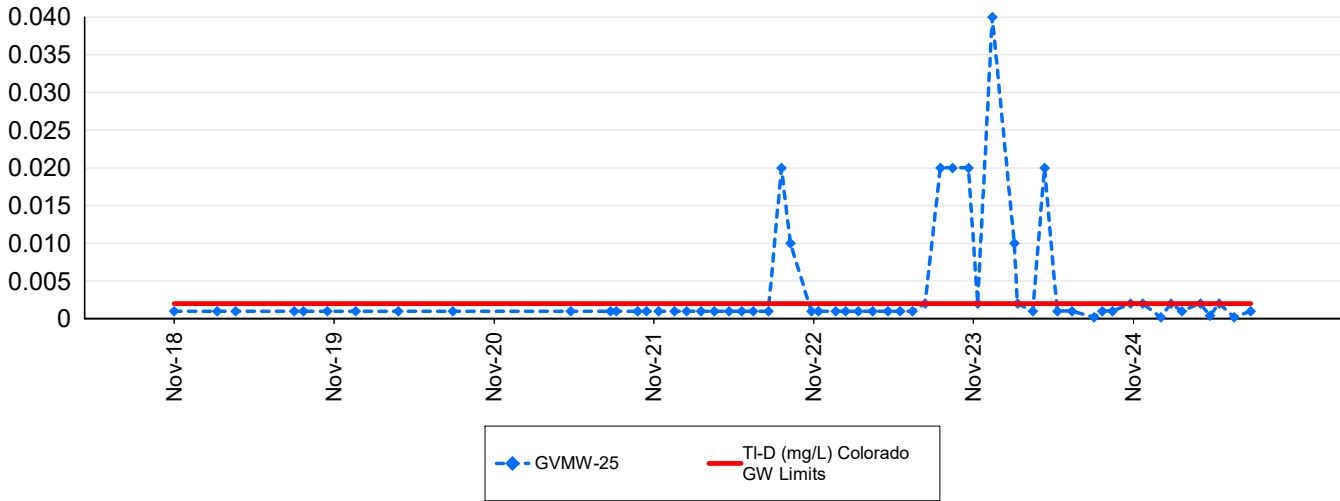
: Sodium - Dissolved (mg/L)



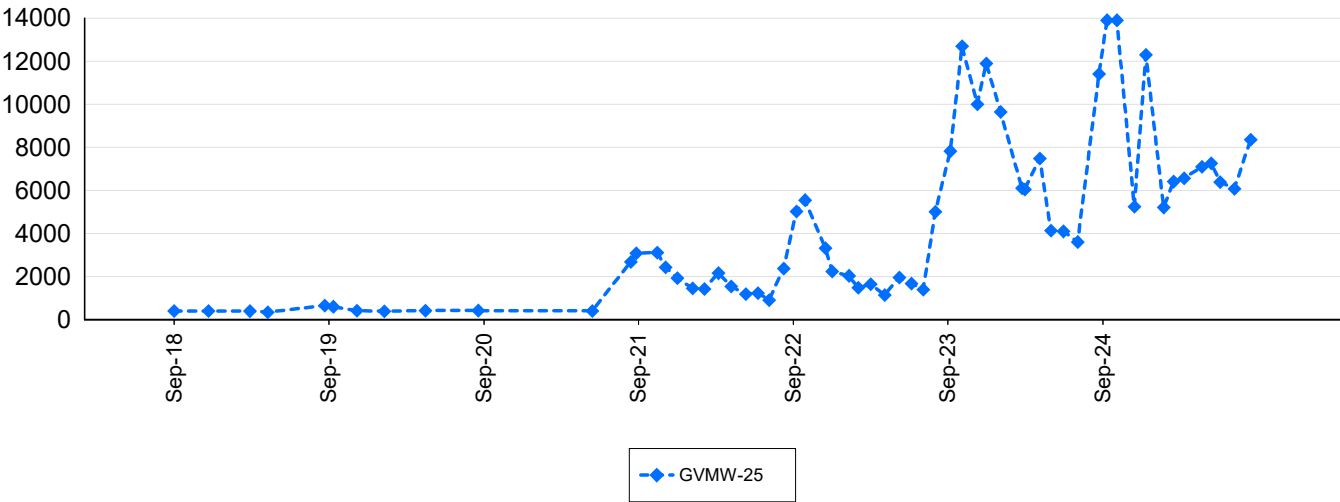
: Sulfate - Total (mg/L)



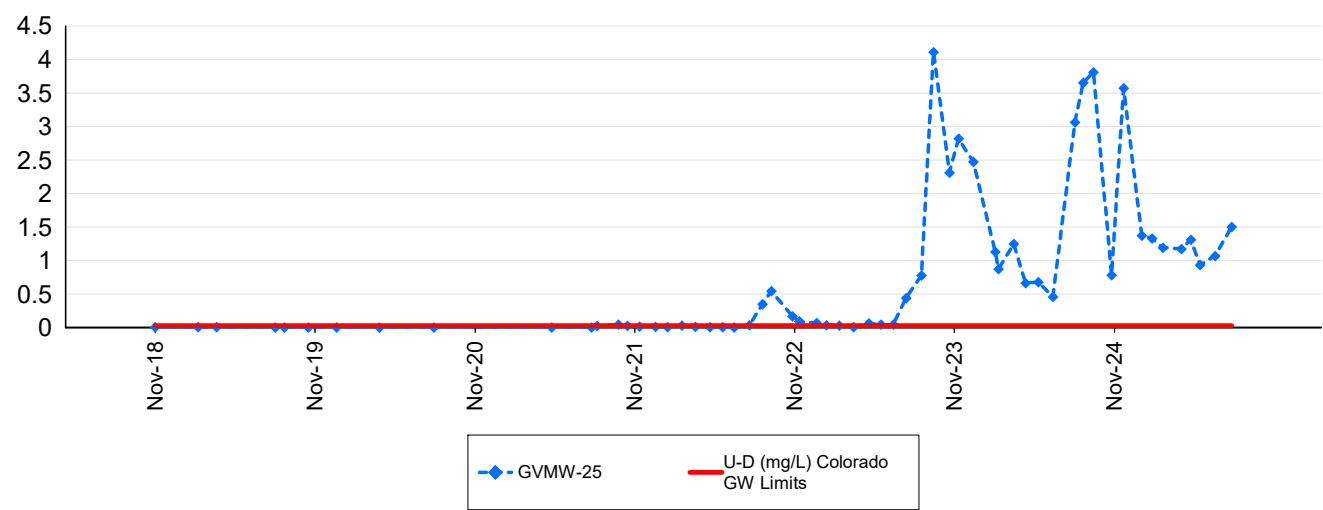
: Thallium - Dissolved (mg/L)



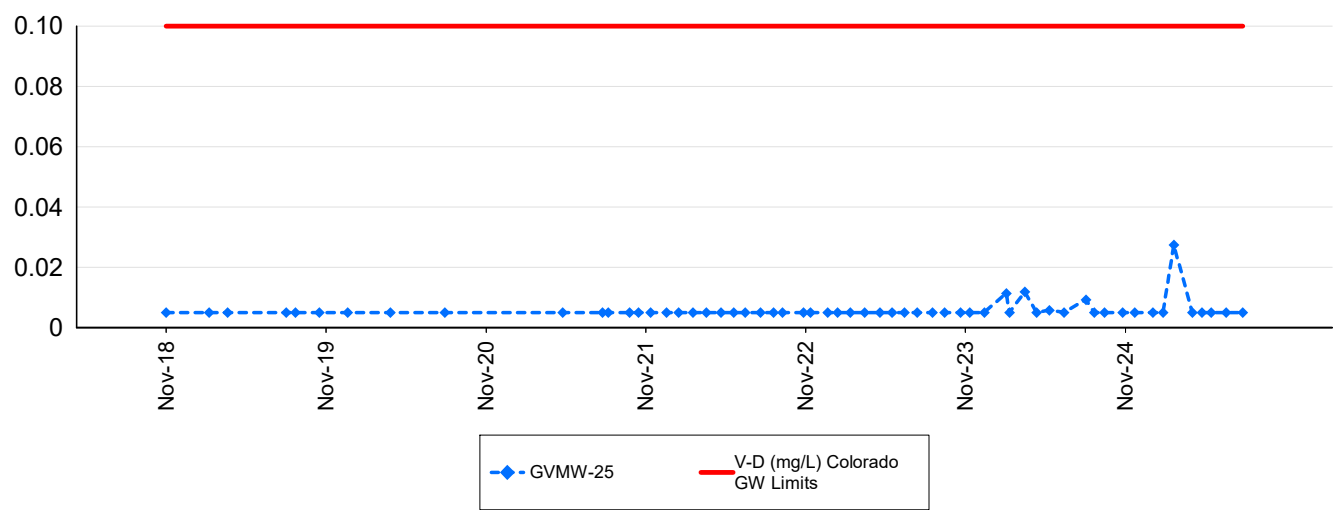
: Total Dissolved Solids (mg/L)



: Uranium - Dissolved (mg/L)



: Vanadium - Dissolved (mg/L)



: Zinc - Dissolved (mg/L)

