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

June 26, 2025

RE: Monthly Grassy Valley Report May 2025 Submission, June 26, 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 May 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 May 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;
- EMP-17C and EMP-020 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 three quality assurance/quality control (QA/QC) samples in May 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 May 2025 sampling event are included in Attachment 1 and field-collected data is presented on the sampling logs in Attachment 3.

DISCUSSION

Groundwater

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

Trend graphs for various constituents at the GVMW-25 monitoring location are provided in Attachment 4. Overall, results in May indicate similar concentrations compared to February, March, and April 2025. However, concentrations of fluoride decreased relative to April 2025 and arsenic, beryllium, aluminum, and manganese concentrations slightly increased. All other constituents remained consistent with the previous month's data. Additionally, ammonia, antimony, boron, cyanide, lead, mercury, molybdenum, silver, thallium, and vanadium were not detected in the May 2025 samples.

Water quality at the GVMW-15B, OSABH-16, OSABH-17 monitoring locations is consistent with previously recorded results. Shallow groundwater at these locations appears to be impacted by seepage and constituent concentrations fluctuate seasonally similar to GVMW-25.

Other notable results include:

- Elevated fluoride concentrations at the GVMW-8B and GVMW-22A locations;
- Elevated beryllium, fluoride, and sulfate at GVMW-24B;
- Elevated sulfate and uranium concentrations at the GVMW-10 location; and
- Elevated iron concentrations in GVMW-15A;

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

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

Newly Constructed Monitoring Wells

During the April 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; and
- Elevated pH at the GVMW-37A location.
- Elevated pH and sulfate at the GVMW-35A

Surface water

Flowing water was observed at the GV-06, GV-4.5 and GV-05 monitoring locations in April 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 and GV-06 location was compliant with all applicable standards.

Stormwater Detention Ponds

EMP-16, EMP-17, EMP-17A and EMP-17B all contained water during the monitoring period and were sampled. Results from the EMP sampling are included in Table 2 and compared to TVS's and NPL's. All other EMP were dry during the monitoring period and therefore no samples were collected.

Below is a summary of the status of each water containing EMP at the time of this report:

- EMP-17A -58,000 gallons removed and is dry;
- EMP17B - 40,000 gallons removed and is dry;
- EMP-16 - 80,000 gallons removed, and pumping will continue until the EMP is dry;
- EMP-17 has dried up since sampling

CC&V anticipates that all EMP's with identified constituents above regulatory limits will be pump dry before the end of June 2025 and should remain effectively dry for the remainder of the year.

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,

DocuSigned by:
Katie Blake
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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

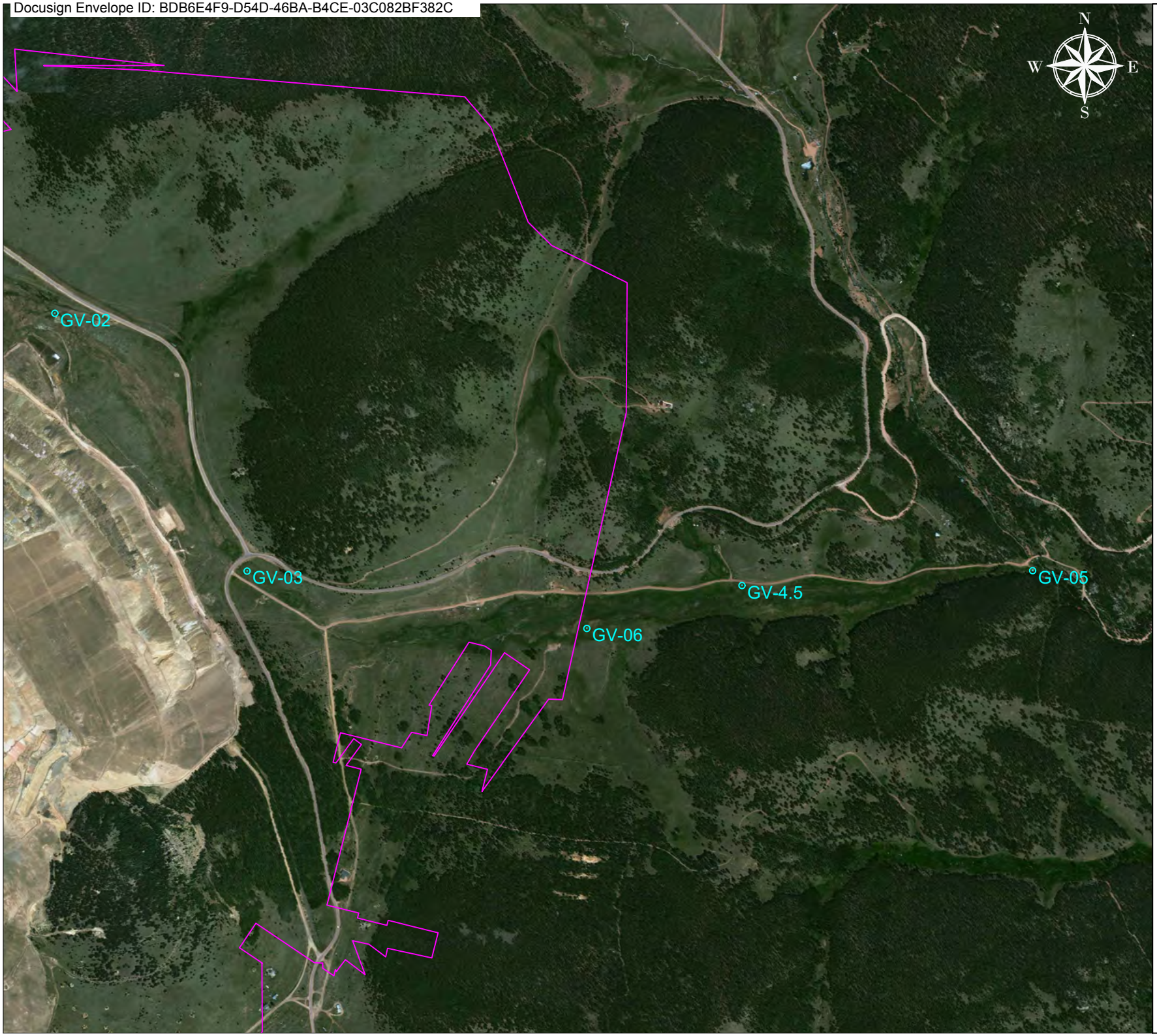
Newmont
CRIPPLE CREEK & VICTOR

Drawing Name

GRASSY VALLEY
MONITORING WELLS

Project	Sheet
GRASSY VALLEY CAPP	G1
Date: 10/8/2024	

Scale: 0 500 1000 Feet



LEGEND

- SURFACE WATER LOCATION
- PERMIT BOUNDARY

General Notes

No.	Revision/Issue	Date

Firm Name and Address

Newmont
CRIPPLE CREEK & VICTOR

Drawing Name

GRASSY VALLEY
SURFACE WATER MONITORING

Project	Sheet
GRASSY VALLEY CAPP	G2
Date: 10/8/2024	

Scale: 0 700 1400 Feet

LEGEND

- EMP
- PERMIT BOUNDARY

General Notes

No.	Revision/Issue	Date

Firm Name and Address

Newmont™
CRIPPLE CREEK & VICTOR

Drawing Name

GRASSY VALLEY
EMP MONITORING

Project	Sheet
GRASSY VALLEY CAPP	G3
Date: 10/8/2024	

Scale: 0 300 600 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	Sheet
GRASSY VALLEY CAPP	G4
Date: 10/8/2024	

Scale: 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	5/15/2025	Sampled
GVMW-7A	5/12/2025	Sampled
GVMW-7B	5/12/2025	Sampled
GVMW-8A	5/12/2025	Sampled
GVMW-8B	5/12/2025	Sampled
GVMW-10	5/19/2025	Sampled
GVMW-15A	5/15/2025	Sampled
GVMW-15B	5/15/2025	Sampled
GVMW-15C	5/15/2025	Dry at 419' BTOC
GVMW-22A	5/5/2025	Sampled
GVMW-22B	5/5/2025	Sampled
GVMW-24A	5/20/2025	Not sampled due to sediment laden water causing the pump to overheat; unable to pump well
GVMW-24B	5/5/2025	Sampled
GVMW-25	5/20/2025	Sampled
GMVW-26A	5/5/2025	Sampled
GVMW-26B	5/5/2025	Sampled
GVMW-27	5/20/2025	Sampled
GVMW-28	5/20/2025	Sampled
GVMW-29	5/20/2025	Dry at 38.11' BTOC
GVMW-30	5/20/2025	Sampled
GVMW-31	5/20/2025	Dry at 61.40' BTOC
GVMW-32	5/20/2025	Dry at 67.18' BTOC
GVMW-33	5/19/2025	Sampled
GVMW-34	5/19/2025	Sampled
GVMW-35A	5/29/2025	Sampled
GVMW-35B	5/15/2025	Sampled
GVMW-36	5/20/2025	Sampled
GVMW-37A	5/5/2025	Sampled
GVMW-37B	5/5/2025	Sampled
OSABH-12	5/28/2025	Dry at 39' bgs
OSABH-14	5/28/2025	Dry at 29' bgs
OSABH-16	5/19/2025	Sampled
OSABH-17	5/19/2025	Sampled
OSABH-18	5/28/2025	Dry at 52' BTOC
Ecosa Seep-1	5/19/2025	Dry
Ecosa Seep-2	5/19/2025	Dry
GV-02	5/19/2025	Not sampled; no flowing water
GV-03	5/19/2025	Not sampled; no flowing water
GV-06	5/19/2025	Sampled
GV-4.5	5/19/2025	Sampled
GV-05	5/19/2025	Sampled
EMP-016	5/19/2025	Sampled
EMP-017	5/19/2025	Sampled
EMP-017A	5/19/2025	Sampled
EMP-17B	5/19/2025	Sampled
EMP-17C	5/19/2025	Not sampled; location dry
EMP-020	5/19/2025	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 - April 2025
Cripple Creek and Victor Gold Mining Company

ANALYTE	Reg 41 TVS	Site Wide NPL	UNIT	Well I.D.	GVMW-4A	GVMW-7A	GVMW-7B	GVMW-8A*	GVMW-8B	GVMW-10	GVMW-15A	GVMW-15B	GVMW-22A	GVMW-22B	GVMW-24B	GVMW-25	GMW-26A	GVMW-26B
				Sample Date	5/15/2025	5/12/2025	5/12/2025	5/12/2025	5/12/2025	5/19/2025	5/15/2025	5/15/2025	5/5/2025	5/5/2025	5/5/2025	5/20/2025	5/5/2025	5/5/2025
Aluminum - Dissolved	5	**7**	mg/L		<0.080	<0.080	<0.080	<0.080	<0.080	0.122	<0.080	0.369	<0.080	<0.080	0.959	**458**	<0.080	<0.080
Ammonia	NA	NA	mg/L		<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	0.037	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Antimony - Dissolved	**0.006**	NA	mg/L		<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Arsenic - Dissolved	**0.01**	NA	mg/L		<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	**0.139**	<0.00100	<0.00100
Barium - Dissolved	**2**	NA	mg/L		0.167	0.211	0.0372	<0.0020	0.0062	0.0187	0.0519	0.0128	0.105	0.0562	0.0127	0.0124	0.199	0.108
Beryllium - Dissolved	**0.004**	NA	mg/L		<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	**0.0292**	<0.00200	<0.00200	**0.00584**	**0.385**	<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	0.0048	**0.972**	<0.0020	<0.0020
Chloride - Total	**250**	NA	mg/L		5.08	18	10.5	63.1	49.4	5.53	1.57	1.39	4.05	8.68	20.4	22	1.44	2
Chromium - Dissolved	**0.1**	NA	mg/L		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.032	<0.0060	<0.0060
Cobalt - Dissolved	**0.05**	NA	mg/L		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0310	**0.0622**	<0.0060	<0.0060	<0.0060	**0.96**	<0.0060	<0.0060
Copper - Dissolved	**0.2**	**0.2**	mg/L		<0.0100	<0.0100	<0.0100	<0.0100	0.0350	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	**1.65**	<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		0.127	0.81	0.349	1.87	**2.08**	1.16	0.274	0.348	**2.15**	0.365	**2.28**	**57.1**	1.9	0.228
Iron - Dissolved	0.3	**14**	mg/L		7.67	1.38	<0.100	<0.100	<0.100	0.14	**31.6**	**20.5**	<0.100	<0.100	0.124	1.39	<0.100	<0.100
Lead - Dissolved	**0.05**	NA	mg/L		<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	**0.063**	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075
Lithium - Dissolved	**2.5**	NA	mg/L		<0.040	<0.040	<0.040	<0.040	<0.040	0.088	<0.040	<0.040	<0.040	<0.040	0.065	0.296	<0.040	<0.040
Manganese - Dissolved	0.05	**3**	mg/L		1.96	0.253	<0.0080	<0.0080	<0.0080	2.1	1.92	1.3	0.0314	<0.0080	1.41	**144**	0.0104	0.0089
Mercury - Dissolved	**0.002**	**0.002**	mg/L		<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
Molybdenum - Dissolved	**0.21**	NA	mg/L		<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	0.0443	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080
Nickel - Dissolved	**0.1**	NA	mg/L		<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.0121	0.0608	**0.112**	<0.0100	<0.0100	0.0838	**1.66**	<0.0100	<0.0100
Nitrate as Nitrogen	**10**	**10**	mg/L		<0.050	<0.050	0.888	1.27	2.04	<0.050	<0.050	<0.050	<0.050	0.747	1.98	3.48	0.055	0.741
Nitrite + Nitrate as Nitrogen	10	**11**	mg/L		<0.100	<0.100	0.888	1.27	2.04	<0.100	<0.100	<0.100	<0.100	0.759	2	3.48	<0.100	0.759
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	<0.250	<0.050	<0.050
pH Field	6.5-8.5	**6.0-8.5**	pH units		6.51	7.39	6.65	6.84	6.6	6.92	6.43	**4.55**	7.94	6.71	6.34	**3.71**	7.97	6.51
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	**0.0035**	**0.0117**	<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		9.44	10.4	10.5	24.5	24.9	47.5	13.5	13.1	35.6	20.5	21.8	39.2	30.7	9.9
Sulfate - Total	**250**	NA	mg/L		67.5	26.3	69.7	61.2	79.4	**1,100**	185	**264**	31.3	86.1	**1,770**	**5,010**	14.5	19.7
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	<0.000400	<0.000200	<0.000200
Total Dissolved Solids	NA	NA	mg/L		192	280	230	318	308	1,880	292	424	239	241	2,600	7,260	208	90
Uranium - Dissolved	**0.03**	NA	mg/L		0.000133	0.00477	0.000363	0.0049	0.00286	**0.0396**	<0.000100	0.00364	0.00366	0.000909	0.0057	**1.31**	0.00354	0.000119
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		0.0231	0.0153	0.0163	0.0124	0.0135	0.0998	0.259	1.23	0.0143	0.0127	0.0966	**34.3**	0.0131	0.0146

Notes:

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

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

ANALYTE	Reg 41 TVS	Site Wide NPL	UNIT	Well I.D.	GVMW-27	GVMW-28	GVMW-30	GVMW-33	GVMW-34	GVMW-35A	GVMW-35B	GVMW-36	GVMW-37A	GVMW-37B	OSABH-17	OSABH-16	EMP-16	EMP-17	EMP-17A	EMP-17B
				Sample Date	5/20/2025	5/20/2025	5/21/2025	5/19/2025	5/19/2025	5/29/2025	5/15/2025	5/20/2025	5/5/2025	5/5/2025	5/20/2025	5/29/2025	5/19/2025	5/19/2025	5/19/2025	5/19/2025
Aluminum - Dissolved	5	**7**	mg/L		**113**	**1,030**	**407**	**302**	**24.3**	<0.080	<0.080	**380**	<0.080	0.186	**3,840**	**409**	**139**	<0.080	4.41	**52.2**
Ammonia	NA	NA	mg/L		<0.030	0.052	<0.030	0.136	0.047	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	0.031	<0.030	<0.030	<0.030	0.075
Antimony - Dissolved	**0.006**	NA	mg/L		<0.00100	<0.00100	<0.00100	<0.0100	<0.0100	0.00432	<0.00100	<0.00100	0.00141	<0.00100	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Arsenic - Dissolved	**0.01**	NA	mg/L		**0.0395**	**0.243**	**0.0666**	**0.189**	<0.0100	<0.00100	<0.00100	**0.0434**	0.00241	<0.00100	**0.68**	**0.0734**	**0.0251**	<0.00100	<0.00100	**0.0114**
Barium - Dissolved	**2**	NA	mg/L		0.0149	0.0091	0.0113	0.0198	0.0294	0.0561	0.0139	0.0117	0.0717	0.128	<0.0200	0.0095	0.0175	0.0305	0.044	0.0192
Beryllium - Dissolved	**0.004**	NA	mg/L		**0.111**	**0.72**	**0.623**	**0.349**	**0.0218**	<0.00200	<0.00200	**0.117**	<0.00200	<0.00200	**0.779**	**0.327**	**0.0296**	<0.00200	<0.00200	**0.00898**
Boron - Total	**0.75**	NA	mg/L		<0.0400	<0.0400	<0.0400	<0.0400	0.0417	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.400	<0.0400	<0.0400	0.0663	<0.0400	0.0618
Cadmium - Dissolved	**0.005**	**0.005**	mg/L		**0.302**	**2.1**	**0.348**	**0.7**	**0.108**	<0.0020	<0.0020	**0.897**	<0.0020	<0.0020	**9.58**	**2.03**	**0.207**	<0.0020	**0.0105**	**0.283**
Chloride - Total	**250**	NA	mg/L		53.1	6.1	2.52	5.68	27.5	19.1	86.7	8.95	3.81	4.33	18.2	2.97	7.62	8.8	2.65	2.35
Chromium - Dissolved	**0.1**	NA	mg/L		<0.0060	**0.143**	**0.295**	0.0134	<0.0060	0.0084	<0.0060	0.0857	<0.0060	0.008	**0.848**	0.008	0.0353	<0.0060	<0.0060	<0.0060
Cobalt - Dissolved	**0.05**	NA	mg/L		**0.238**	**1.87**	**0.628**	**0.435**	**0.0923**	<0.0060	<0.0060	**2.16**	<0.0060	<0.0060	**21.3**	**1.40**	**1.09**	<0.0060	0.0462	**0.2**
Copper - Dissolved	**0.2**	**0.2**	mg/L		**0.329**	**5.06**	**0.283**	**0.725**	<0.0100	<0.0100	<0.0100	**1.87**	<0.0100	<0.0100	**17.5**	**2.15**	**0.461**	<0.0100	<0.0100	**0.283**
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	0.0099	<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	0.0264	<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	0.0099	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Fluoride - Total F	**2**	**2**	mg/L		**15.6**	**121**	**23.0**	**60.8**	**33.1**	0.187	<0.100	**40.9**	1.45	1.9	**605**	**86.8**	**13.4**	**2.05**	**5.37**	**25.6**
Iron - Dissolved	0.3	**14**	mg/L		3.47	**51.6**	**23.60**	1.02	<0.100	<0.100	<0.100	7.42	<0.100	0.447	**110**	7.15	9.12	<0.100	0.186	0.603
Lead - Dissolved	**0.05**	NA	mg/L		<0.0075	<0.0375	<0.0075	0.0165	<0.0075	<0.0075	<0.0075	0.0287	<0.0075	<0.0075	<0.375	0.0075	0.0258	<0.0075	<0.0075	<0.0075
Lithium - Dissolved	**2.5**	NA	mg/L		0.117	0.509	0.373	0.208	0.345	0.063	0.093	0.359	<0.040	<0.040	2.27	0.499	0.128	0.05	<0.040	0.067
Manganese - Dissolved	0.05	**3**	mg/L		**54.1**	**289**	**67.3**	**122**	**105**	<0.0080	0.146	**93.6**	0.0424	0.717	**1,540**	**375**	**33.3**	0.144	**9.40**	**38.7**
Mercury - Dissolved	**0.002**	**0.002**	mg/L		0.000303	<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	<0.000200
Molybdenum - Dissolved	**0.21**	NA	mg/L		<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	0.0279	0.0087	<0.0080	0.0196	0.0125	<0.0800	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080
Nickel - Dissolved	**0.1**	NA	mg/L		**0.5**	**3.15**	**1.76**	**1.05**	**0.492**	<0.0100	<0.0100	**1.93**	<0.0100	<0.0100	**16.7**	**1.35**	**0.734**	<0.0100	0.0269	**0.18**
Nitrate as Nitrogen	**10**	**10**	mg/L		1.84	5.88	2.32	<5.00	**10.4**	<0.050	**13**	2.69	0.189	0.635	4.44	3.34	<0.050	<0.050	<0.050	0.093
Nitrite + Nitrate as Nitrogen	10	**11**	mg/L		1.87	5.88	2.32	<10.0	10.4	0.113	**13.1**	2.69	0.208	0.673	<5.00	3.34	<0.100	<0.100	<0.100	<0.100
Nitrite as Nitrogen	**1**	**1**	mg/L		<0.050	<0.500	<0.250	<0.250	<0.050	0.08	0.1	<0.500	<0.050	<0.050	<2.50	<0.250	<0.050	<0.050	<0.050	<0.050
pH Field	6.5-8.5	**6.0-8.5**	pH units		**4.30**	**2.95**	**3.21**	**4.05**	**5.67**	**11.98**	8.22	**3.54**	**9.09**	7.95	**2.90**	**3.44**	**3.33**	6.5	**4.5**	**4.16**
Selenium - Dissolved	0.02	**0.024**	mg/L		0.00347	**0.0256**	0.00591	0.018	0.0153	<0.00100	0.00492	0.00759	<0.00100	<0.00100	**0.0545**	0.00999	0.00189	<0.00100	<0.00100	0.00108
Silver - Dissolved	**0.05**	NA	mg/L		<0.0050	<0.0250	<0.0050	0.0069	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.250	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium - Dissolved	NA	NA	mg/L		48.4	34.7	35.3	166	46.7	41.6	15.9	27.2	35.5	35.7	<25.0	21.4	5.97	87.2	3.6	31
Sulfate - Total	**250**	NA	mg/L		**2,340**	**9,500**	**4,870**	**4,320**	**2,730**	**426**	**1,330**	**4,630**	174	140	**40,100**	**4,790**	**1,560**	**1,370**	249	**1,250**
Thallium - Dissolved	**0.002**	NA	mg/L		<0.000200	<0.00200	<0.000400	<0.00200	<0.00200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.00200	<0.00200	0.000209	<0.000200	<0.000200	<0.000200
Total Dissolved Solids	NA	NA	mg/L		2,620	13,500	7,000	6,170	4,230	976	2,060	6,700	362	320	50,500	7,190	2,240	1,950	395	1,800
Uranium - Dissolved	**0.03**	NA	mg/L		**0.406**	**3.12**	**0.85**	**1.04**	**0.0513**	<0.000100	0.00569	**1.67**	0.00325	0.00348	**17.7**	**3.19**	**0.446**	0.001790	0.001020	**0.191**
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	<0.0500	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zinc - Dissolved	**2**	**2**	mg/L		**11.5**	**80.3**	**6.04**	**17.1**	**12.5**	0.0118	0.0113	**39**	0.0132	0.0127	**355**	**71.5**	**9.96**	0.114	0.882	**14.6**

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 2024
Work Order: **X5E0056**
Reported: 20-May-25 12:40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-26 A	X5E0056-01	Ground Water	05-May-25 11:00	JC	06-May-2025	
GVMW-26 B	X5E0056-02	Ground Water	05-May-25 10:20	JC	06-May-2025	
GVMW-22 B	X5E0056-03	Ground Water	05-May-25 11:50	JC	06-May-2025	
GVMW-22 A	X5E0056-04	Ground Water	05-May-25 13:05	JC	06-May-2025	
GVMW-37 A	X5E0056-05	Ground Water	05-May-25 11:00	EG	06-May-2025	
GVMW-37 B	X5E0056-06	Ground Water	05-May-25 12:53	EG	06-May-2025	
GVMW-24 B	X5E0056-07	Ground Water	05-May-25 14:25	EG	06-May-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.

Case Narrative: X5E0056

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: **X5E0056**
Reported: 20-May-25 12:40

Client Sample ID: **GVMW-26 A**
SVL Sample ID: **X5E0056-01 (Ground Water)**

Sampled: 05-May-25 11:00
Received: 06-May-25
Sampled By: JC

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**	28.4	mg/L	0.100	0.069		X519143	MAC	05/12/25 12:10	
EPA 200.7	**Magnesium**	6.40	mg/L	0.500	0.090		X519143	MAC	05/12/25 12:10	
EPA 200.7	**Potassium**	0.95	mg/L	0.50	0.18		X519143	MAC	05/12/25 12:10	
SM 2340 B	**Hardness (as CaCO3)**	99.3	mg/L	2.31	0.543		N/A		05/14/25 09:46	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X520036	MAC	05/14/25 09:46	
EPA 200.7	**Barium**	0.199	mg/L	0.0020	0.0019		X520036	MAC	05/14/25 09:46	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X520036	MAC	05/14/25 09:46	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X520036	MAC	05/14/25 09:46	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X520036	MAC	05/14/25 09:46	
EPA 200.7	**Calcium**	29.2	mg/L	0.100	0.069		X520036	MAC	05/14/25 09:46	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X520036	MAC	05/14/25 09:46	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X520036	MAC	05/14/25 09:46	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X520036	MAC	05/14/25 09:46	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X520036	MAC	05/14/25 09:46	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X520036	MAC	05/14/25 09:46	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X520036	MAC	05/14/25 09:46	
EPA 200.7	**Magnesium**	6.53	mg/L	0.500	0.090		X520036	MAC	05/14/25 09:46	
EPA 200.7	**Manganese**	0.0104	mg/L	0.0080	0.0034		X520036	MAC	05/14/25 09:46	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X520036	MAC	05/14/25 09:46	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X520036	MAC	05/14/25 09:46	
EPA 200.7	**Potassium**	0.94	mg/L	0.50	0.18		X520036	MAC	05/14/25 09:46	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X520036	MAC	05/14/25 09:46	
EPA 200.7	**Sodium**	30.7	mg/L	0.50	0.12		X520036	MAC	05/14/25 09:46	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X520036	MAC	05/14/25 09:46	
EPA 200.7	**Zinc**	0.0131	mg/L	0.0100	0.0054		X520036	MAC	05/14/25 09:46	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X520080	SMU	05/13/25 17:33	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X520080	SMU	05/13/25 17:33	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X520080	SMU	05/13/25 17:33	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X520080	SMU	05/13/25 17:33	
EPA 200.8	**Uranium**	0.00354	mg/L	0.000100	0.000052		X520080	SMU	05/13/25 17:33	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X519140	SJN	05/14/25 10:24	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X521008	JPM	05/19/25 12:53	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X520065	ORW	05/14/25 14:24	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X519128	JPM	05/09/25 14:45	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X519083	JPM	05/08/25 14:42	
SM 2310 B	**Acidity to pH 8.3**	-156	mg/L as CaCO3	10.0			X520093	MWD	05/14/25 09:54	
SM 2320 B	**Total Alkalinity**	155	mg/L as CaCO3	1.0			X520013	MWD	05/12/25 14:52	
SM 2320 B	**Bicarbonate**	155	mg/L as CaCO3	1.0			X520013	MWD	05/12/25 14:52	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X520013	MWD	05/12/25 14:52	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X520013	MWD	05/12/25 14:52	
SM 2540 C	**Total Diss. Solids**	208	mg/L	10			X519093	TJL	05/08/25 12:50	
SM 2540 D	**Total Susp. Solids**	7.0	mg/L	5.0			X519094	TJL	05/08/25 12:40	
SM 4500 H B	**pH @20.3°C**	8.0	pH Units				X520013	MWD	05/12/25 14:52	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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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: **X5E0056**
Reported: 20-May-25 12:40

Client Sample ID: **GVMW-26 A**
SVL Sample ID: **X5E0056-01 (Ground Water)**

Sampled: 05-May-25 11:00
Received: 06-May-25
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	1.44	mg/L	0.20	0.02		X519055	RS	05/06/25 15:55	
EPA 300.0	**Fluoride**	1.90	mg/L	0.100	0.017		X519055	RS	05/06/25 15:55	
EPA 300.0	**Nitrate as N**	0.055	mg/L	0.050	0.013		X519055	RS	05/06/25 15:55	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X519055	RS	05/06/25 15:55	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X519055	RS	05/06/25 15:55	
EPA 300.0	**Sulfate as SO4**	14.5	mg/L	0.30	0.18		X519055	RS	05/06/25 15:55	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.32 meq/L Anion Sum: 3.54 meq/L C/A Balance: -3.25 % Calculated TDS: 178 TDS/cTDS: 1.17

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: **X5E0056**
Reported: 20-May-25 12:40

Client Sample ID: **GVMW-26 B**
SVL Sample ID: **X5E0056-02 (Ground Water)**

Sampled: 05-May-25 10:20
Received: 06-May-25
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	10.1	mg/L	0.100	0.069		X519143	MAC	05/12/25 12:14	
EPA 200.7	**Magnesium**	2.04	mg/L	0.500	0.090		X519143	MAC	05/12/25 12:14	
EPA 200.7	**Potassium**	0.83	mg/L	0.50	0.18		X519143	MAC	05/12/25 12:14	
SM 2340 B	**Hardness (as CaCO3)**	36.8	mg/L	2.31	0.543		N/A		05/14/25 09:49	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X520036	MAC	05/14/25 09:49	
EPA 200.7	**Barium**	0.108	mg/L	0.0020	0.0019		X520036	MAC	05/14/25 09:49	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X520036	MAC	05/14/25 09:49	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X520036	MAC	05/14/25 09:49	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X520036	MAC	05/14/25 09:49	
EPA 200.7	**Calcium**	11.4	mg/L	0.100	0.069		X520036	MAC	05/14/25 09:49	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X520036	MAC	05/14/25 09:49	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X520036	MAC	05/14/25 09:49	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X520036	MAC	05/14/25 09:49	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X520036	MAC	05/14/25 09:49	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X520036	MAC	05/14/25 09:49	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X520036	MAC	05/14/25 09:49	
EPA 200.7	**Magnesium**	2.16	mg/L	0.500	0.090		X520036	MAC	05/14/25 09:49	
EPA 200.7	**Manganese**	0.0089	mg/L	0.0080	0.0034		X520036	MAC	05/14/25 09:49	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X520036	MAC	05/14/25 09:49	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X520036	MAC	05/14/25 09:49	
EPA 200.7	**Potassium**	1.19	mg/L	0.50	0.18		X520036	MAC	05/14/25 09:49	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X520036	MAC	05/14/25 09:49	
EPA 200.7	**Sodium**	9.90	mg/L	0.50	0.12		X520036	MAC	05/14/25 09:49	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X520036	MAC	05/14/25 09:49	
EPA 200.7	**Zinc**	0.0146	mg/L	0.0100	0.0054		X520036	MAC	05/14/25 09:49	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X520080	SMU	05/13/25 17:36	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X520080	SMU	05/13/25 17:36	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X520080	SMU	05/13/25 17:36	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X520080	SMU	05/13/25 17:36	
EPA 200.8	**Uranium**	0.000119	mg/L	0.000100	0.000052		X520080	SMU	05/13/25 17:36	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X519140	SJN	05/14/25 11:13	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X521008	JPM	05/19/25 12:56	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X520065	ORW	05/14/25 14:25	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X519128	JPM	05/09/25 14:47	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X519083	JPM	05/08/25 14:45	
SM 2310 B	**Acidity to pH 8.3**	-31.7	mg/L as CaCO3	10.0			X520093	MWD	05/14/25 09:54	
SM 2320 B	**Total Alkalinity**	34.0	mg/L as CaCO3	1.0			X520013	MWD	05/12/25 14:58	
SM 2320 B	**Bicarbonate**	34.0	mg/L as CaCO3	1.0			X520013	MWD	05/12/25 14:58	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X520013	MWD	05/12/25 14:58	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X520013	MWD	05/12/25 14:58	
SM 2540 C	**Total Diss. Solids**	90	mg/L	10			X519093	TJL	05/08/25 12:50	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X519094	TJL	05/08/25 12:40	
SM 4500 H B	**pH @20.3°C**	6.8	pH Units				X520013	MWD	05/12/25 14:58	H5,R2B

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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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: **X5E0056**
Reported: 20-May-25 12:40

Client Sample ID: **GVMW-26 B**
SVL Sample ID: **X5E0056-02 (Ground Water)**

Sampled: 05-May-25 10:20
Received: 06-May-25
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	2.00	mg/L	0.20	0.02		X519055	RS	05/06/25 16:26	
EPA 300.0	**Fluoride**	0.228	mg/L	0.100	0.017		X519055	RS	05/06/25 16:26	
EPA 300.0	**Nitrate as N**	0.741	mg/L	0.050	0.013		X519055	RS	05/06/25 16:26	
EPA 300.0	**Nitrate+Nitrite as N**	0.759	mg/L	0.100	0.044		X519055	RS	05/06/25 16:26	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X519055	RS	05/06/25 16:26	
EPA 300.0	**Sulfate as SO4**	19.7	mg/L	0.30	0.18		X519055	RS	05/06/25 16:26	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 1.14 meq/L Anion Sum: 1.21 meq/L C/A Balance: -3.12 % Calculated TDS: 69 TDS/cTDS: 1.30

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: **X5E0056**
Reported: 20-May-25 12:40

Client Sample ID: **GVMW-22 B**
SVL Sample ID: **X5E0056-03 (Ground Water)**

Sampled: 05-May-25 11:50
Received: 06-May-25
Sampled By: JC

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**	33.3	mg/L	0.100	0.069		X519143	MAC	05/12/25 12:32	
EPA 200.7	**Magnesium**	8.52	mg/L	0.500	0.090		X519143	MAC	05/12/25 12:32	
EPA 200.7	**Potassium**	1.39	mg/L	0.50	0.18		X519143	MAC	05/12/25 12:32	
SM 2340 B	**Hardness (as CaCO3)**	121	mg/L	2.31	0.543		N/A		05/14/25 09:53	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X520036	MAC	05/14/25 09:53	
EPA 200.7	**Barium**	0.0562	mg/L	0.0020	0.0019		X520036	MAC	05/14/25 09:53	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X520036	MAC	05/14/25 09:53	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X520036	MAC	05/14/25 09:53	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X520036	MAC	05/14/25 09:53	
EPA 200.7	**Calcium**	34.6	mg/L	0.100	0.069		X520036	MAC	05/14/25 09:53	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X520036	MAC	05/14/25 09:53	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X520036	MAC	05/14/25 09:53	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X520036	MAC	05/14/25 09:53	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X520036	MAC	05/14/25 09:53	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X520036	MAC	05/14/25 09:53	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X520036	MAC	05/14/25 09:53	
EPA 200.7	**Magnesium**	9.05	mg/L	0.500	0.090		X520036	MAC	05/14/25 09:53	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X520036	MAC	05/14/25 09:53	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X520036	MAC	05/14/25 09:53	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X520036	MAC	05/14/25 09:53	
EPA 200.7	**Potassium**	1.49	mg/L	0.50	0.18		X520036	MAC	05/14/25 09:53	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X520036	MAC	05/14/25 09:53	
EPA 200.7	**Sodium**	20.5	mg/L	0.50	0.12		X520036	MAC	05/14/25 09:53	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X520036	MAC	05/14/25 09:53	
EPA 200.7	**Zinc**	0.0127	mg/L	0.0100	0.0054		X520036	MAC	05/14/25 09:53	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X520080	SMU	05/13/25 17:45	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X520080	SMU	05/13/25 17:45	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X520080	SMU	05/13/25 17:45	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X520080	SMU	05/13/25 17:45	
EPA 200.8	**Uranium**	0.000909	mg/L	0.000100	0.000052		X520080	SMU	05/13/25 17:45	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X519140	SJN	05/14/25 10:37	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X521008	JPM	05/19/25 12:58	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X520065	ORW	05/14/25 14:27	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X519128	JPM	05/09/25 14:50	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X519083	JPM	05/08/25 14:47	
SM 2310 B	**Acidity to pH 8.3**	-69.9	mg/L as CaCO3	10.0			X520093	MWD	05/14/25 09:54	
SM 2320 B	**Total Alkalinity**	69.8	mg/L as CaCO3	1.0			X520013	MWD	05/12/25 15:03	
SM 2320 B	**Bicarbonate**	69.8	mg/L as CaCO3	1.0			X520013	MWD	05/12/25 15:03	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X520013	MWD	05/12/25 15:03	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X520013	MWD	05/12/25 15:03	
SM 2540 C	**Total Diss. Solids**	241	mg/L	10			X519093	TJL	05/08/25 12:50	
SM 2540 D	**Total Susp. Solids**	7.0	mg/L	5.0			X519094	TJL	05/08/25 12:40	
SM 4500 H B	**pH @20.3°C**	7.0	pH Units				X520013	MWD	05/12/25 15:03	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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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: **X5E0056**
Reported: 20-May-25 12:40

Client Sample ID: **GVMW-22 B**
SVL Sample ID: **X5E0056-03 (Ground Water)**

Sampled: 05-May-25 11:50
Received: 06-May-25
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	8.68	mg/L	0.20	0.02		X519055	RS	05/06/25 16:42	
EPA 300.0	**Fluoride**	0.365	mg/L	0.100	0.017		X519055	RS	05/06/25 16:42	
EPA 300.0	**Nitrate as N**	0.747	mg/L	0.050	0.013		X519055	RS	05/06/25 16:42	
EPA 300.0	**Nitrate+Nitrite as N**	0.759	mg/L	0.100	0.044		X519055	RS	05/06/25 16:42	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X519055	RS	05/06/25 16:42	
EPA 300.0	**Sulfate as SO4**	86.1	mg/L	3.00	1.80	10	X519055	RS	05/06/25 16:57	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 3.30 meq/L Anion Sum: 3.51 meq/L C/A Balance: -2.96 % Calculated TDS: 205 TDS/cTDS: 1.18

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

Kristi A. Groth

Kristi A. Groth
Project Manager

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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: **X5E0056**
Reported: 20-May-25 12:40

Client Sample ID: **GVMW-22 A**
SVL Sample ID: **X5E0056-04 (Ground Water)**

Sampled: 05-May-25 13:05
Received: 06-May-25
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	27.5	mg/L	0.100	0.069		X519143	MAC	05/12/25 12:35	
EPA 200.7	**Magnesium**	10.9	mg/L	0.500	0.090		X519143	MAC	05/12/25 12:35	
EPA 200.7	**Potassium**	1.20	mg/L	0.50	0.18		X519143	MAC	05/12/25 12:35	
SM 2340 B	**Hardness (as CaCO3)**	117	mg/L	2.31	0.543		N/A		05/14/25 09:57	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X520036	MAC	05/14/25 09:57	
EPA 200.7	**Barium**	0.105	mg/L	0.0020	0.0019		X520036	MAC	05/14/25 09:57	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X520036	MAC	05/14/25 09:57	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X520036	MAC	05/14/25 09:57	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X520036	MAC	05/14/25 09:57	
EPA 200.7	**Calcium**	28.7	mg/L	0.100	0.069		X520036	MAC	05/14/25 09:57	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X520036	MAC	05/14/25 09:57	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X520036	MAC	05/14/25 09:57	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X520036	MAC	05/14/25 09:57	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X520036	MAC	05/14/25 09:57	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X520036	MAC	05/14/25 09:57	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X520036	MAC	05/14/25 09:57	
EPA 200.7	**Magnesium**	11.2	mg/L	0.500	0.090		X520036	MAC	05/14/25 09:57	
EPA 200.7	**Manganese**	0.0314	mg/L	0.0080	0.0034		X520036	MAC	05/14/25 09:57	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X520036	MAC	05/14/25 09:57	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X520036	MAC	05/14/25 09:57	
EPA 200.7	**Potassium**	1.23	mg/L	0.50	0.18		X520036	MAC	05/14/25 09:57	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X520036	MAC	05/14/25 09:57	
EPA 200.7	**Sodium**	35.6	mg/L	0.50	0.12		X520036	MAC	05/14/25 09:57	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X520036	MAC	05/14/25 09:57	
EPA 200.7	**Zinc**	0.0143	mg/L	0.0100	0.0054		X520036	MAC	05/14/25 09:57	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X520080	SMU	05/13/25 17:48	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X520080	SMU	05/13/25 17:48	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X520080	SMU	05/13/25 17:48	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X520080	SMU	05/13/25 17:48	
EPA 200.8	**Uranium**	0.00366	mg/L	0.000100	0.000052		X520080	SMU	05/13/25 17:48	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X519140	SJN	05/14/25 10:39	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X521008	JPM	05/19/25 13:01	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X520065	ORW	05/14/25 14:29	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X519128	JPM	05/09/25 14:52	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X519083	JPM	05/08/25 15:03	
SM 2310 B	**Acidity to pH 8.3**	-166	mg/L as CaCO3	10.0			X520093	MWD	05/14/25 09:54	
SM 2320 B	**Total Alkalinity**	165	mg/L as CaCO3	1.0			X520013	MWD	05/12/25 15:16	
SM 2320 B	**Bicarbonate**	165	mg/L as CaCO3	1.0			X520013	MWD	05/12/25 15:16	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X520013	MWD	05/12/25 15:16	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X520013	MWD	05/12/25 15:16	
SM 2540 C	**Total Diss. Solids**	239	mg/L	10			X519093	TJL	05/08/25 12:50	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X519094	TJL	05/08/25 12:40	
SM 4500 H B	**pH @20.4°C**	8.0	pH Units				X520013	MWD	05/12/25 15:16	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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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: **X5E0056**
Reported: 20-May-25 12:40

Client Sample ID: **GVMW-22 A**
SVL Sample ID: **X5E0056-04 (Ground Water)**

Sampled: 05-May-25 13:05
Received: 06-May-25
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	4.05	mg/L	0.20	0.02		X519055	RS	05/06/25 17:44	
EPA 300.0	**Fluoride**	2.15	mg/L	0.100	0.017		X519055	RS	05/06/25 17:44	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X519055	RS	05/06/25 17:44	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X519055	RS	05/06/25 17:44	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X519055	RS	05/06/25 17:44	
EPA 300.0	**Sulfate as SO4**	31.3	mg/L	0.30	0.18		X519055	RS	05/06/25 17:44	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.86 meq/L Anion Sum: 4.18 meq/L C/A Balance: -3.91 % Calculated TDS: 212 TDS/cTDS: 1.12

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

Kristi A. Groth

Kristi A. Groth
Project Manager

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

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X5E0056**
Reported: 20-May-25 12:40

Client Sample ID: **GVMW-37 A**
SVL Sample ID: **X5E0056-05 (Ground Water)**

Sampled: 05-May-25 11:00
Received: 06-May-25
Sampled By: EG

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**	43.6	mg/L	0.100	0.069		X519143	MAC	05/12/25 12:39	
EPA 200.7	**Magnesium**	10.4	mg/L	0.500	0.090		X519143	MAC	05/12/25 12:39	
EPA 200.7	**Potassium**	3.57	mg/L	0.50	0.18		X519143	MAC	05/12/25 12:39	
SM 2340 B	**Hardness (as CaCO3)**	150	mg/L	2.31	0.543		N/A		05/12/25 12:39	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X520036	MAC	05/14/25 10:08	
EPA 200.7	**Barium**	0.0717	mg/L	0.0020	0.0019		X520036	MAC	05/14/25 10:08	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X520036	MAC	05/14/25 10:08	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X520036	MAC	05/14/25 10:08	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X520036	MAC	05/14/25 10:08	
EPA 200.7	**Calcium**	43.1	mg/L	0.100	0.069		X520036	MAC	05/14/25 10:08	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X520036	MAC	05/14/25 10:08	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X520036	MAC	05/14/25 10:08	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X520036	MAC	05/14/25 10:08	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X520036	MAC	05/14/25 10:08	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X520036	MAC	05/14/25 10:08	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X520036	MAC	05/14/25 10:08	
EPA 200.7	**Magnesium**	10.3	mg/L	0.500	0.090		X520036	MAC	05/14/25 10:08	
EPA 200.7	**Manganese**	0.0424	mg/L	0.0080	0.0034		X520036	MAC	05/14/25 10:08	
EPA 200.7	**Molybdenum**	0.0196	mg/L	0.0080	0.0034		X520036	MAC	05/14/25 10:08	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X520036	MAC	05/14/25 10:08	
EPA 200.7	**Potassium**	3.46	mg/L	0.50	0.18		X520036	MAC	05/14/25 10:08	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X520036	MAC	05/14/25 10:08	
EPA 200.7	**Sodium**	35.5	mg/L	0.50	0.12		X520036	MAC	05/14/25 10:08	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X520036	MAC	05/14/25 10:08	
EPA 200.7	**Zinc**	0.0132	mg/L	0.0100	0.0054		X520036	MAC	05/14/25 10:08	
EPA 200.8	**Antimony**	0.00141	mg/L	0.00100	0.00072		X520080	SMU	05/13/25 17:51	
EPA 200.8	**Arsenic**	0.00241	mg/L	0.00100	0.00021		X520080	SMU	05/13/25 17:51	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X520080	SMU	05/13/25 17:51	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X520080	SMU	05/13/25 17:51	
EPA 200.8	**Uranium**	0.00325	mg/L	0.000100	0.000052		X520080	SMU	05/13/25 17:51	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X519140	SJN	05/14/25 10:41	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X521008	JPM	05/19/25 13:05	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X520065	ORW	05/14/25 14:30	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X519128	JPM	05/09/25 14:55	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X519083	JPM	05/08/25 15:06	
SM 2310 B	**Acidity to pH 8.3**	-69.9	mg/L as CaCO3	10.0			X520093	MWD	05/14/25 09:54	
SM 2320 B	**Total Alkalinity**	63.2	mg/L as CaCO3	1.0			X520013	MWD	05/12/25 15:22	
SM 2320 B	**Bicarbonate**	54.0	mg/L as CaCO3	1.0			X520013	MWD	05/12/25 15:22	
SM 2320 B	**Carbonate**	9.1	mg/L as CaCO3	1.0			X520013	MWD	05/12/25 15:22	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X520013	MWD	05/12/25 15:22	
SM 2540 C	**Total Diss. Solids**	362	mg/L	10			X519093	TJL	05/08/25 12:50	
SM 2540 D	**Total Susp. Solids**	18.0	mg/L	5.0			X519094	TJL	05/08/25 12:40	
SM 4500 H B	**pH @20.4°C**	8.8	pH Units				X520013	MWD	05/12/25 15:22	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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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: **X5E0056**
Reported: 20-May-25 12:40

Client Sample ID: **GVMW-37 A**
SVL Sample ID: **X5E0056-05 (Ground Water)**

Sampled: 05-May-25 11:00
Received: 06-May-25
Sampled By: EG

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	3.81	mg/L	0.20	0.02		X519055	RS	05/07/25 09:44	
EPA 300.0	**Fluoride**	1.45	mg/L	0.100	0.017		X519055	RS	05/07/25 09:44	
EPA 300.0	**Nitrate as N**	0.189	mg/L	0.050	0.013		X519055	RS	05/07/25 09:44	
EPA 300.0	**Nitrate+Nitrite as N**	0.208	mg/L	0.100	0.044		X519055	RS	05/07/25 09:44	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X519055	RS	05/07/25 09:44	
EPA 300.0	**Sulfate as SO4**	174	mg/L	3.00	1.80	10	X519055	RS	05/07/25 09:59	

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.65 meq/L Anion Sum: 5.08 meq/L C/A Balance: -4.50 % Calculated TDS: 311 TDS/cTDS: 1.16

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: **X5E0056**
Reported: 20-May-25 12:40

Client Sample ID: **GVMW-37 B**
SVL Sample ID: **X5E0056-06 (Ground Water)**

Sampled: 05-May-25 12:53
Received: 06-May-25
Sampled By: EG

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**	59.3	mg/L	0.100	0.069		X519143	MAC	05/12/25 12:43	
EPA 200.7	**Magnesium**	9.99	mg/L	0.500	0.090		X519143	MAC	05/12/25 12:43	
EPA 200.7	**Potassium**	1.37	mg/L	0.50	0.18		X519143	MAC	05/12/25 12:43	
SM 2340 B	**Hardness (as CaCO3)**	188	mg/L	2.31	0.543		N/A		05/12/25 12:43	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	0.186	mg/L	0.080	0.054		X520036	MAC	05/14/25 10:11	
EPA 200.7	**Barium**	0.128	mg/L	0.0020	0.0019		X520036	MAC	05/14/25 10:11	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X520036	MAC	05/14/25 10:11	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X520036	MAC	05/14/25 10:11	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X520036	MAC	05/14/25 10:11	
EPA 200.7	**Calcium**	59.0	mg/L	0.100	0.069		X520036	MAC	05/14/25 10:11	
EPA 200.7	**Chromium**	0.0080	mg/L	0.0060	0.0020		X520036	MAC	05/14/25 10:11	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X520036	MAC	05/14/25 10:11	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X520036	MAC	05/14/25 10:11	
EPA 200.7	**Iron**	0.447	mg/L	0.100	0.056		X520036	MAC	05/14/25 10:11	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X520036	MAC	05/14/25 10:11	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X520036	MAC	05/14/25 10:11	
EPA 200.7	**Magnesium**	9.80	mg/L	0.500	0.090		X520036	MAC	05/14/25 10:11	
EPA 200.7	**Manganese**	0.717	mg/L	0.0080	0.0034		X520036	MAC	05/14/25 10:11	
EPA 200.7	**Molybdenum**	0.0125	mg/L	0.0080	0.0034		X520036	MAC	05/14/25 10:11	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X520036	MAC	05/14/25 10:11	
EPA 200.7	**Potassium**	1.48	mg/L	0.50	0.18		X520036	MAC	05/14/25 10:11	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X520036	MAC	05/14/25 10:11	
EPA 200.7	**Sodium**	35.7	mg/L	0.50	0.12		X520036	MAC	05/14/25 10:11	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X520036	MAC	05/14/25 10:11	
EPA 200.7	**Zinc**	0.0127	mg/L	0.0100	0.0054		X520036	MAC	05/14/25 10:11	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X520080	SMU	05/13/25 17:55	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X520080	SMU	05/13/25 17:55	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X520080	SMU	05/13/25 17:55	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X520080	SMU	05/13/25 17:55	
EPA 200.8	**Uranium**	0.00348	mg/L	0.000100	0.000052		X520080	SMU	05/13/25 17:55	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X519140	SJN	05/14/25 10:44	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X521008	JPM	05/19/25 14:13	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X520065	ORW	05/14/25 14:39	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X519128	JPM	05/09/25 14:57	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X519083	JPM	05/08/25 15:09	
SM 2310 B	**Acidity to pH 8.3**	-118	mg/L as CaCO3	10.0			X520093	MWD	05/14/25 09:54	
SM 2320 B	**Total Alkalinity**	119	mg/L as CaCO3	1.0			X520013	MWD	05/12/25 15:29	
SM 2320 B	**Bicarbonate**	119	mg/L as CaCO3	1.0			X520013	MWD	05/12/25 15:29	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X520013	MWD	05/12/25 15:29	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X520013	MWD	05/12/25 15:29	
SM 2540 C	**Total Diss. Solids**	320	mg/L	10			X519093	TJL	05/08/25 12:50	
SM 2540 D	**Total Susp. Solids**	14.0	mg/L	5.0			X519094	TJL	05/08/25 12:40	
SM 4500 H B	**pH @20.4°C**	8.0	pH Units				X520013	MWD	05/12/25 15:29	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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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: **X5E0056**
Reported: 20-May-25 12:40

Client Sample ID: **GVMW-37 B**
SVL Sample ID: **X5E0056-06 (Ground Water)**

Sampled: 05-May-25 12:53
Received: 06-May-25
Sampled By: EG

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	4.33	mg/L	0.20	0.02		X519055	RS	05/06/25 18:44	
EPA 300.0	**Fluoride**	1.90	mg/L	0.100	0.017		X519055	RS	05/06/25 18:44	
EPA 300.0	**Nitrate as N**	0.635	mg/L	0.050	0.013		X519055	RS	05/06/25 18:44	
EPA 300.0	**Nitrate+Nitrite as N**	0.673	mg/L	0.100	0.044		X519055	RS	05/06/25 18:44	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X519055	RS	05/06/25 18:44	
EPA 300.0	**Sulfate as SO4**	140	mg/L	3.00	1.80	10	X519055	RS	05/06/25 18:59	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 5.41 meq/L Anion Sum: 5.56 meq/L C/A Balance: -1.40 % Calculated TDS: 327 TDS/cTDS: 0.98

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: **X5E0056**
Reported: 20-May-25 12:40

Client Sample ID: **GVMW-24 B**
SVL Sample ID: **X5E0056-07 (Ground Water)**

Sampled: 05-May-25 14:25
Received: 06-May-25
Sampled By: EG

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**	469	mg/L	0.200	0.138	2	X519143	MAC	05/12/25 15:46	M4
EPA 200.7	**Magnesium**	141	mg/L	0.500	0.090		X519143	MAC	05/12/25 12:46	M3
EPA 200.7	**Potassium**	2.52	mg/L	0.50	0.18		X519143	MAC	05/12/25 12:46	
SM 2340 B	**Hardness (as CaCO3)**	1820	mg/L	2.31	0.543		N/A		05/14/25 10:15	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	0.959	mg/L	0.080	0.054		X520036	MAC	05/14/25 10:15	
EPA 200.7	**Barium**	0.0127	mg/L	0.0020	0.0019		X520036	MAC	05/14/25 10:15	
EPA 200.7	**Beryllium**	0.00584	mg/L	0.00200	0.00080		X520036	MAC	05/14/25 10:15	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X520036	MAC	05/14/25 10:15	
EPA 200.7	**Cadmium**	0.0048	mg/L	0.0020	0.0016		X520036	MAC	05/14/25 10:15	
EPA 200.7	**Calcium**	498	mg/L	0.100	0.069		X520036	MAC	05/14/25 10:15	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X520036	MAC	05/14/25 10:15	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X520036	MAC	05/14/25 10:15	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X520036	MAC	05/14/25 10:15	
EPA 200.7	**Iron**	0.124	mg/L	0.100	0.056		X520036	MAC	05/14/25 10:15	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X520036	MAC	05/14/25 10:15	
EPA 200.7	**Lithium**	0.065	mg/L	0.040	0.025		X520036	MAC	05/14/25 10:15	
EPA 200.7	**Magnesium**	143	mg/L	0.500	0.090		X520036	MAC	05/14/25 10:15	
EPA 200.7	**Manganese**	1.41	mg/L	0.0080	0.0034		X520036	MAC	05/14/25 10:15	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X520036	MAC	05/14/25 10:15	
EPA 200.7	**Nickel**	0.0838	mg/L	0.0100	0.0048		X520036	MAC	05/14/25 10:15	
EPA 200.7	**Potassium**	2.60	mg/L	0.50	0.18		X520036	MAC	05/14/25 10:15	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X520036	MAC	05/14/25 10:15	
EPA 200.7	**Sodium**	21.8	mg/L	0.50	0.12		X520036	MAC	05/14/25 10:15	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X520036	MAC	05/14/25 10:15	
EPA 200.7	**Zinc**	0.0966	mg/L	0.0100	0.0054		X520036	MAC	05/14/25 10:15	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X520080	SMU	05/13/25 18:17	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X520080	SMU	05/13/25 18:17	
EPA 200.8	**Selenium**	0.00350	mg/L	0.00100	0.00024		X520080	SMU	05/13/25 18:17	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X520080	SMU	05/13/25 18:17	
EPA 200.8	**Uranium**	0.00570	mg/L	0.000100	0.000052		X520080	SMU	05/13/25 18:17	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X519140	SJN	05/14/25 10:46	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X521008	JPM	05/19/25 13:21	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X520065	ORW	05/14/25 14:40	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X519128	JPM	05/09/25 14:59	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X519083	JPM	05/08/25 15:12	
SM 2310 B	**Acidity to pH 8.3**	-41.2	mg/L as CaCO3	10.0			X520093	MWD	05/14/25 09:54	
SM 2320 B	**Total Alkalinity**	41.0	mg/L as CaCO3	1.0			X520013	MWD	05/12/25 15:34	
SM 2320 B	**Bicarbonate**	41.0	mg/L as CaCO3	1.0			X520013	MWD	05/12/25 15:34	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X520013	MWD	05/12/25 15:34	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X520013	MWD	05/12/25 15:34	
SM 2540 C	**Total Diss. Solids**	2600	mg/L	40			X519093	TJL	05/08/25 12:50	
SM 2540 D	**Total Susp. Solids**	17.0	mg/L	5.0			X519094	TJL	05/08/25 12:40	
SM 4500 H B	**pH @20.5°C**	6.3	pH Units				X520013	MWD	05/12/25 15:34	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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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: **X5E0056**
Reported: 20-May-25 12:40

Client Sample ID: **GVMW-24 B**
SVL Sample ID: **X5E0056-07 (Ground Water)**

Sampled: 05-May-25 14:25
Received: 06-May-25
Sampled By: EG

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	20.4	mg/L	10.0	1.10	50	X519055	RS	05/06/25 19:30	
EPA 300.0	**Fluoride**	2.28	mg/L	0.100	0.017		X519055	RS	05/06/25 19:15	
EPA 300.0	**Nitrate as N**	1.98	mg/L	0.050	0.013		X519055	RS	05/06/25 19:15	
EPA 300.0	**Nitrate+Nitrite as N**	2.00	mg/L	0.100	0.044		X519055	RS	05/06/25 19:15	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X519055	RS	05/06/25 19:15	
EPA 300.0	**Sulfate as SO4**	1770	mg/L	15.0	9.00	50	X519055	RS	05/06/25 19:30	

Cation/Anion Balance and TDS Ratios

Cation Sum: 36.2 meq/L Anion Sum: 38.5 meq/L C/A Balance: -3.10 % Calculated TDS: 2476 TDS/cTDS: 1.05

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: **X5E0056**
Reported: 20-May-25 12:40

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	X519143	12-May-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X519143	12-May-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X519143	12-May-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X520036	14-May-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X520036	14-May-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X520036	14-May-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X520036	14-May-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X520036	14-May-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X520036	14-May-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X520036	14-May-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X520036	14-May-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X520036	14-May-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X520036	14-May-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X520036	14-May-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X520036	14-May-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X520036	14-May-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X520036	14-May-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X520036	14-May-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X520036	14-May-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X520036	14-May-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X520036	14-May-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X520036	14-May-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X520036	14-May-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X520036	14-May-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X520080	13-May-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X520080	13-May-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X520080	13-May-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X520080	13-May-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X520080	13-May-25	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X519140	14-May-25	
Classical Chemistry Parameters								
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X521008	19-May-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X520065	14-May-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X519128	09-May-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X519083	08-May-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X520093	14-May-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X520013	12-May-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X520013	12-May-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X520013	12-May-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X520013	12-May-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X519093	08-May-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X519094	08-May-25	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X519055	06-May-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X519055	06-May-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X519055	06-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X519055	06-May-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X519055	06-May-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X519055	06-May-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: **X5E0056**
Reported: 20-May-25 12:40

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	18.5	20.0	92	85 - 115	X519143	12-May-25	
EPA 200.7	Magnesium	mg/L	18.3	20.0	91.4	85 - 115	X519143	12-May-25	
EPA 200.7	Potassium	mg/L	18.4	20.0	91.8	85 - 115	X519143	12-May-25	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.944	1.00	94.4	85 - 115	X520036	14-May-25	
EPA 200.7	Barium	mg/L	0.975	1.00	97.5	85 - 115	X520036	14-May-25	
EPA 200.7	Beryllium	mg/L	0.943	1.00	94.3	85 - 115	X520036	14-May-25	
EPA 200.7	Boron	mg/L	0.942	1.00	94.2	85 - 115	X520036	14-May-25	
EPA 200.7	Cadmium	mg/L	0.960	1.00	96.0	85 - 115	X520036	14-May-25	
EPA 200.7	Calcium	mg/L	18.8	20.0	93.8	85 - 115	X520036	14-May-25	
EPA 200.7	Chromium	mg/L	0.964	1.00	96.4	85 - 115	X520036	14-May-25	
EPA 200.7	Cobalt	mg/L	0.935	1.00	93.5	85 - 115	X520036	14-May-25	
EPA 200.7	Copper	mg/L	0.935	1.00	93.5	85 - 115	X520036	14-May-25	
EPA 200.7	Iron	mg/L	9.26	10.0	92.6	85 - 115	X520036	14-May-25	
EPA 200.7	Lead	mg/L	0.969	1.00	96.9	85 - 115	X520036	14-May-25	
EPA 200.7	Lithium	mg/L	0.918	1.00	91.8	85 - 115	X520036	14-May-25	
EPA 200.7	Magnesium	mg/L	18.5	20.0	92.3	85 - 115	X520036	14-May-25	
EPA 200.7	Manganese	mg/L	0.972	1.00	97.2	85 - 115	X520036	14-May-25	
EPA 200.7	Molybdenum	mg/L	0.935	1.00	93.5	85 - 115	X520036	14-May-25	
EPA 200.7	Nickel	mg/L	0.949	1.00	94.9	85 - 115	X520036	14-May-25	
EPA 200.7	Potassium	mg/L	19.2	20.0	96.2	85 - 115	X520036	14-May-25	
EPA 200.7	Silver	mg/L	0.0453	0.0500	90.7	85 - 115	X520036	14-May-25	
EPA 200.7	Sodium	mg/L	18.0	19.0	94.8	85 - 115	X520036	14-May-25	
EPA 200.7	Vanadium	mg/L	0.960	1.00	96.0	85 - 115	X520036	14-May-25	
EPA 200.7	Zinc	mg/L	0.955	1.00	95.5	85 - 115	X520036	14-May-25	
EPA 200.8	Antimony	mg/L	0.0268	0.0250	107	85 - 115	X520080	13-May-25	
EPA 200.8	Arsenic	mg/L	0.0276	0.0250	111	85 - 115	X520080	13-May-25	
EPA 200.8	Selenium	mg/L	0.0268	0.0250	107	85 - 115	X520080	13-May-25	
EPA 200.8	Thallium	mg/L	0.0270	0.0250	108	85 - 115	X520080	13-May-25	
EPA 200.8	Uranium	mg/L	0.0284	0.0250	113	85 - 115	X520080	13-May-25	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00209	0.00200	104	85 - 115	X519140	14-May-25	
Classical Chemistry Parameters									
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.101	0.100	101	90 - 110	X521008	19-May-25	
EPA 335.4	Cyanide (total)	mg/L	0.0990	0.100	99.0	90 - 110	X520065	14-May-25	
EPA 350.1	Ammonia as N	mg/L	1.03	1.00	103	90 - 110	X519128	09-May-25	
OIA 1677	Cyanide (WAD)	mg/L	0.102	0.100	102	90 - 110	X519083	08-May-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1170	1180	99.4	95.4 - 104	X520093	14-May-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	101	94 - 106	X520013	12-May-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	412	397	104	94 - 106	X520013	12-May-25	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X519094	08-May-25	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.97	3.00	98.8	90 - 110	X519055	06-May-25	
EPA 300.0	Fluoride	mg/L	1.95	2.00	97.5	90 - 110	X519055	06-May-25	
EPA 300.0	Nitrate as N	mg/L	1.95	2.00	97.4	90 - 110	X519055	06-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.47	4.50	99.3	90 - 110	X519055	06-May-25	
EPA 300.0	Nitrite as N	mg/L	2.52	2.50	101	90 - 110	X519055	06-May-25	
EPA 300.0	Sulfate as SO4	mg/L	9.63	10.0	96.3	90 - 110	X519055	06-May-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: **X5E0056**
Reported: 20-May-25 12:40

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	<10.0	<10.0	UDL	20	X520093 - X5E0026-01	14-May-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	32.1	34.0	5.8	20	X520013 - X5E0056-02	12-May-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	32.1	34.0	5.8	20	X520013 - X5E0056-02	12-May-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X520013 - X5E0056-02	12-May-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X520013 - X5E0056-02	12-May-25	
SM 2540 C	Total Diss. Solids	mg/L	256	246	4.0	10	X519093 - X5E0052-02	08-May-25	
SM 2540 C	Total Diss. Solids	mg/L	326	320	1.9	10	X519093 - X5E0056-06	08-May-25	
SM 2540 D	Total Susp. Solids	mg/L	14.0	14.0	0.0	10	X519094 - X5E0056-06	08-May-25	
SM 2540 D	Total Susp. Solids	mg/L	26.0	26.0	0.0	10	X519094 - X5E0052-02	08-May-25	
SM 4500 H B	pH @20.3°C	pH Units	6.7	6.8	1.9	20	X520013 - X5E0056-02	12-May-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	74.0	54.0	20.0	100	70 - 130	X519143 - X5E0051-02	12-May-25	
EPA 200.7	Calcium	mg/L	504	469	20.0	0.30R>S	70 - 130	X519143 - X5E0056-07	12-May-25	M4
EPA 200.7	Magnesium	mg/L	27.3	7.33	20.0	100	70 - 130	X519143 - X5E0051-02	12-May-25	
EPA 200.7	Magnesium	mg/L	170	141	20.0	0.30R>S	70 - 130	X519143 - X5E0056-07	12-May-25	M3
EPA 200.7	Potassium	mg/L	41.6	22.4	20.0	96.1	70 - 130	X519143 - X5E0051-02	12-May-25	
EPA 200.7	Potassium	mg/L	22.9	2.52	20.0	102	70 - 130	X519143 - X5E0056-07	12-May-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	463	463	1.00	0.30R>S	70 - 130	X520036 - X5E0004-01	14-May-25	M3
EPA 200.7	Aluminum	mg/L	0.957	<0.080	1.00	95.7	70 - 130	X520036 - X5E0087-01	14-May-25	
EPA 200.7	Barium	mg/L	1.00	0.0123	1.00	99.2	70 - 130	X520036 - X5E0004-01	14-May-25	
EPA 200.7	Barium	mg/L	1.00	0.0364	1.00	96.4	70 - 130	X520036 - X5E0087-01	14-May-25	
EPA 200.7	Beryllium	mg/L	1.08	0.126	1.00	95.8	70 - 130	X520036 - X5E0004-01	14-May-25	
EPA 200.7	Beryllium	mg/L	0.936	<0.00200	1.00	93.6	70 - 130	X520036 - X5E0087-01	14-May-25	
EPA 200.7	Boron	mg/L	1.02	<0.0400	1.00	99.7	70 - 130	X520036 - X5E0004-01	14-May-25	
EPA 200.7	Boron	mg/L	1.01	0.0495	1.00	95.6	70 - 130	X520036 - X5E0087-01	14-May-25	
EPA 200.7	Cadmium	mg/L	1.96	1.02	1.00	94.4	70 - 130	X520036 - X5E0004-01	14-May-25	
EPA 200.7	Cadmium	mg/L	0.931	<0.0020	1.00	93.1	70 - 130	X520036 - X5E0087-01	14-May-25	
EPA 200.7	Calcium	mg/L	431	411	20.0	95.6	70 - 130	X520036 - X5E0004-01	14-May-25	
EPA 200.7	Calcium	mg/L	122	104	20.0	89.7	70 - 130	X520036 - X5E0087-01	14-May-25	
EPA 200.7	Chromium	mg/L	1.03	0.0919	1.00	93.7	70 - 130	X520036 - X5E0004-01	14-May-25	
EPA 200.7	Chromium	mg/L	0.954	<0.0060	1.00	95.4	70 - 130	X520036 - X5E0087-01	14-May-25	
EPA 200.7	Cobalt	mg/L	3.39	2.44	1.00	95.1	70 - 130	X520036 - X5E0004-01	14-May-25	
EPA 200.7	Cobalt	mg/L	0.902	<0.0060	1.00	90.2	70 - 130	X520036 - X5E0087-01	14-May-25	
EPA 200.7	Copper	mg/L	3.19	2.13	1.00	105	70 - 130	X520036 - X5E0004-01	14-May-25	
EPA 200.7	Copper	mg/L	0.946	<0.0100	1.00	94.6	70 - 130	X520036 - X5E0087-01	14-May-25	
EPA 200.7	Iron	mg/L	19.5	10.0	10.0	94.7	70 - 130	X520036 - X5E0004-01	14-May-25	
EPA 200.7	Iron	mg/L	9.29	<0.100	10.0	92.9	70 - 130	X520036 - X5E0087-01	14-May-25	
EPA 200.7	Lead	mg/L	1.01	0.0462	1.00	96.1	70 - 130	X520036 - X5E0004-01	14-May-25	
EPA 200.7	Lead	mg/L	0.944	<0.0075	1.00	94.4	70 - 130	X520036 - X5E0087-01	14-May-25	
EPA 200.7	Lithium	mg/L	1.57	0.369	1.00	120	70 - 130	X520036 - X5E0004-01	14-May-25	
EPA 200.7	Lithium	mg/L	0.999	<0.040	1.00	97.0	70 - 130	X520036 - X5E0087-01	14-May-25	
EPA 200.7	Magnesium	mg/L	392	372	20.0	99.0	70 - 130	X520036 - X5E0004-01	14-May-25	
EPA 200.7	Magnesium	mg/L	44.0	24.5	20.0	97.6	70 - 130	X520036 - X5E0087-01	14-May-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: **X5E0056**
Reported: 20-May-25 12:40

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	1.00	0.0442	1.00	95.7	70 - 130	X520036 - X5E0087-01	14-May-25	
EPA 200.7	Manganese	mg/L	118	117	1.00	104	70 - 130	X520036 - X5E0004-01	14-May-25	
EPA 200.7	Molybdenum	mg/L	0.951	<0.0080	1.00	95.1	70 - 130	X520036 - X5E0004-01	14-May-25	
EPA 200.7	Molybdenum	mg/L	0.933	<0.0080	1.00	93.3	70 - 130	X520036 - X5E0087-01	14-May-25	
EPA 200.7	Nickel	mg/L	3.17	2.21	1.00	96.4	70 - 130	X520036 - X5E0004-01	14-May-25	
EPA 200.7	Nickel	mg/L	0.909	<0.0100	1.00	90.9	70 - 130	X520036 - X5E0087-01	14-May-25	
EPA 200.7	Potassium	mg/L	24.0	3.22	20.0	104	70 - 130	X520036 - X5E0004-01	14-May-25	
EPA 200.7	Potassium	mg/L	22.3	3.10	20.0	96.1	70 - 130	X520036 - X5E0087-01	14-May-25	
EPA 200.7	Silver	mg/L	0.0489	<0.0050	0.0500	97.8	70 - 130	X520036 - X5E0004-01	14-May-25	
EPA 200.7	Silver	mg/L	0.0470	<0.0050	0.0500	94.1	70 - 130	X520036 - X5E0087-01	14-May-25	
EPA 200.7	Sodium	mg/L	48.1	28.7	19.0	102	70 - 130	X520036 - X5E0004-01	14-May-25	
EPA 200.7	Sodium	mg/L	53.8	36.3	19.0	92.2	70 - 130	X520036 - X5E0087-01	14-May-25	
EPA 200.7	Vanadium	mg/L	0.980	<0.0050	1.00	97.6	70 - 130	X520036 - X5E0004-01	14-May-25	
EPA 200.7	Vanadium	mg/L	0.967	0.0073	1.00	96.0	70 - 130	X520036 - X5E0087-01	14-May-25	
EPA 200.7	Zinc	mg/L	44.8	43.5	1.00	0.30R>S	70 - 130	X520036 - X5E0004-01	14-May-25	M3
EPA 200.7	Zinc	mg/L	0.936	<0.0100	1.00	93.6	70 - 130	X520036 - X5E0087-01	14-May-25	
EPA 200.8	Antimony	mg/L	0.0288	<0.00100	0.0250	115	70 - 130	X520080 - X5E0056-02	13-May-25	
EPA 200.8	Arsenic	mg/L	0.0305	<0.00100	0.0250	122	70 - 130	X520080 - X5E0056-02	13-May-25	
EPA 200.8	Selenium	mg/L	0.0320	<0.00100	0.0250	126	70 - 130	X520080 - X5E0056-02	13-May-25	
EPA 200.8	Thallium	mg/L	0.0283	<0.000200	0.0250	113	70 - 130	X520080 - X5E0056-02	13-May-25	
EPA 200.8	Uranium	mg/L	0.0296	0.000119	0.0250	118	70 - 130	X520080 - X5E0056-02	13-May-25	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00205	<0.000200	0.00200	103	70 - 130	X519140 - X5E0056-01	14-May-25	
EPA 245.1	Mercury	mg/L	0.00203	<0.000200	0.00200	101	70 - 130	X519140 - X5E0141-01	14-May-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.103	<0.0050	0.100	103	79 - 121	X521008 - X5E0056-02	19-May-25	
EPA 335.4	Cyanide (total)	mg/L	0.103	<0.0050	0.100	103	90 - 110	X520065 - X5E0056-02	14-May-25	
EPA 335.4	Cyanide (total)	mg/L	0.101	<0.0050	0.100	101	90 - 110	X520065 - X5E0056-01	14-May-25	
EPA 350.1	Ammonia as N	mg/L	0.982	<0.030	1.00	98.2	90 - 110	X519128 - X5E0056-02	09-May-25	
EPA 350.1	Ammonia as N	mg/L	0.942	<0.030	1.00	91.3	90 - 110	X519128 - X5E0056-01	09-May-25	
OIA 1677	Cyanide (WAD)	mg/L	0.0472	<0.0050	0.100	47.2	82 - 118	X519083 - X5D0430-03	08-May-25	M2,R2B
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	5.58	2.56	3.00	101	90 - 110	X519055 - X5E0047-01	06-May-25	
EPA 300.0	Chloride	mg/L	4.91	2.00	3.00	97.2	90 - 110	X519055 - X5E0056-02	06-May-25	
EPA 300.0	Fluoride	mg/L	2.06	0.118	2.00	97.1	90 - 110	X519055 - X5E0047-01	06-May-25	
EPA 300.0	Fluoride	mg/L	2.19	0.228	2.00	98.0	90 - 110	X519055 - X5E0056-02	06-May-25	
EPA 300.0	Nitrate as N	mg/L	5.66	3.59	2.00	103	90 - 110	X519055 - X5E0047-01	06-May-25	
EPA 300.0	Nitrate as N	mg/L	2.71	0.741	2.00	98.4	90 - 110	X519055 - X5E0056-02	06-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	7.65	3.59	4.00	101	90 - 110	X519055 - X5E0047-01	06-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.70	0.759	4.00	98.6	90 - 110	X519055 - X5E0056-02	06-May-25	
EPA 300.0	Nitrite as N	mg/L	1.99	<0.050	2.00	99.7	90 - 110	X519055 - X5E0047-01	06-May-25	
EPA 300.0	Nitrite as N	mg/L	2.00	<0.050	2.00	99.8	90 - 110	X519055 - X5E0056-02	06-May-25	
EPA 300.0	Sulfate as SO4	mg/L	10.5	0.87	10.0	96.0	90 - 110	X519055 - X5E0047-01	06-May-25	
EPA 300.0	Sulfate as SO4	mg/L	29.5	19.7	10.0	97.9	90 - 110	X519055 - X5E0056-02	06-May-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: **X5E0056**
Reported: 20-May-25 12:40

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	75.1	74.0	20.0	1.0	20	106	X519143 - X5E0051-02	
EPA 200.7	Magnesium	mg/L	27.3	27.3	20.0	0.2	20	99.8	X519143 - X5E0051-02	
EPA 200.7	Potassium	mg/L	42.3	41.6	20.0	1.5	20	99.4	X519143 - X5E0051-02	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	459	463	1.00	1.0	20	0.30R>S	X520036 - X5E0004-01	M3
EPA 200.7	Barium	mg/L	0.966	1.00	1.00	3.9	20	95.3	X520036 - X5E0004-01	
EPA 200.7	Beryllium	mg/L	1.08	1.08	1.00	0.7	20	95.0	X520036 - X5E0004-01	
EPA 200.7	Boron	mg/L	1.01	1.02	1.00	1.1	20	98.6	X520036 - X5E0004-01	
EPA 200.7	Cadmium	mg/L	1.93	1.96	1.00	1.6	20	91.2	X520036 - X5E0004-01	
EPA 200.7	Calcium	mg/L	424	431	20.0	1.6	20	0.30R>S	X520036 - X5E0004-01	M3
EPA 200.7	Chromium	mg/L	1.01	1.03	1.00	2.0	20	91.8	X520036 - X5E0004-01	
EPA 200.7	Cobalt	mg/L	3.33	3.39	1.00	1.7	20	89.5	X520036 - X5E0004-01	
EPA 200.7	Copper	mg/L	3.14	3.19	1.00	1.5	20	101	X520036 - X5E0004-01	
EPA 200.7	Iron	mg/L	19.1	19.5	10.0	1.9	20	91.0	X520036 - X5E0004-01	
EPA 200.7	Lead	mg/L	0.989	1.01	1.00	1.9	20	94.2	X520036 - X5E0004-01	
EPA 200.7	Lithium	mg/L	1.54	1.57	1.00	2.0	20	117	X520036 - X5E0004-01	
EPA 200.7	Magnesium	mg/L	388	392	20.0	1.1	20	77.2	X520036 - X5E0004-01	
EPA 200.7	Manganese	mg/L	119	118	1.00	0.5	20	0.30R>S	X520036 - X5E0004-01	M4
EPA 200.7	Molybdenum	mg/L	0.934	0.951	1.00	1.9	20	93.4	X520036 - X5E0004-01	
EPA 200.7	Nickel	mg/L	3.12	3.17	1.00	1.5	20	91.6	X520036 - X5E0004-01	
EPA 200.7	Potassium	mg/L	23.1	24.0	20.0	3.9	20	99.3	X520036 - X5E0004-01	
EPA 200.7	Silver	mg/L	0.0482	0.0489	0.0500	1.4	20	96.5	X520036 - X5E0004-01	
EPA 200.7	Sodium	mg/L	47.0	48.1	19.0	2.3	20	96.6	X520036 - X5E0004-01	
EPA 200.7	Vanadium	mg/L	0.962	0.980	1.00	1.8	20	95.9	X520036 - X5E0004-01	
EPA 200.7	Zinc	mg/L	44.3	44.8	1.00	1.3	20	77.0	X520036 - X5E0004-01	
EPA 200.8	Antimony	mg/L	0.0271	0.0288	0.0250	6.2	20	108	X520080 - X5E0056-02	
EPA 200.8	Arsenic	mg/L	0.0283	0.0305	0.0250	7.4	20	113	X520080 - X5E0056-02	
EPA 200.8	Selenium	mg/L	0.0304	0.0320	0.0250	5.2	20	120	X520080 - X5E0056-02	
EPA 200.8	Thallium	mg/L	0.0262	0.0283	0.0250	7.8	20	105	X520080 - X5E0056-02	
EPA 200.8	Uranium	mg/L	0.0277	0.0296	0.0250	6.5	20	110	X520080 - X5E0056-02	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00208	0.00205	0.00200	1.1	20	104	X519140 - X5E0056-01	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.107	0.103	0.100	3.7	11	107	X521008 - X5E0056-02	
EPA 335.4	Cyanide (total)	mg/L	0.102	0.103	0.100	0.9	20	102	X520065 - X5E0056-02	
EPA 350.1	Ammonia as N	mg/L	0.949	0.982	1.00	3.4	20	94.9	X519128 - X5E0056-02	
OIA 1677	Cyanide (WAD)	mg/L	0.0374	0.0472	0.100	23.2	11	37.4	X519083 - X5D0430-03	M2,R2B
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	5.61	5.58	3.00	0.5	20	102	X519055 - X5E0047-01	
EPA 300.0	Fluoride	mg/L	2.09	2.06	2.00	1.5	20	98.6	X519055 - X5E0047-01	
EPA 300.0	Nitrate as N	mg/L	5.66	5.66	2.00	0.1	20	104	X519055 - X5E0047-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	7.70	7.65	4.00	0.7	20	103	X519055 - X5E0047-01	
EPA 300.0	Nitrite as N	mg/L	2.04	1.99	2.00	2.1	20	102	X519055 - X5E0047-01	
EPA 300.0	Sulfate as SO4	mg/L	10.7	10.5	10.0	1.8	20	97.9	X519055 - X5E0047-01	

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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: **X5E0056**
Cripple Creek, CO 80813	Reported: 20-May-25 12:40

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.
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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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: **X5E0161**
Reported: 23-May-25 14:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-7B	X5E0161-01	Ground Water	12-May-25 13:00	JC	13-May-2025	
GVMW-7A	X5E0161-02	Ground Water	12-May-25 10:55	JC	13-May-2025	
GVMW-8A	X5E0161-03	Ground Water	12-May-25 09:30	JC	13-May-2025	
GVMW-8B	X5E0161-04	Ground Water	12-May-25 08:40	JC	13-May-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.

Case Narrative: X5E0161

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: **X5E0161**
Reported: 23-May-25 14:50

Client Sample ID: **GVMW-7B**
SVL Sample ID: **X5E0161-01 (Ground Water)**

Sampled: 12-May-25 13:00
Received: 13-May-25
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	29.2	mg/L	0.100	0.069		X520146	JRR	05/19/25 11:06	
EPA 200.7	**Magnesium**	11.1	mg/L	0.500	0.090		X520146	JRR	05/19/25 11:06	
EPA 200.7	**Potassium**	0.76	mg/L	0.50	0.18		X520146	JRR	05/19/25 11:06	
SM 2340 B	**Hardness (as CaCO3)**	122	mg/L	2.31	0.543		N/A		05/22/25 07:33	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X521072	JRR	05/22/25 07:33	
EPA 200.7	**Barium**	0.0372	mg/L	0.0020	0.0019		X521072	JRR	05/22/25 09:03	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X521072	JRR	05/22/25 07:33	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X521072	JRR	05/22/25 09:03	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X521072	JRR	05/22/25 07:33	
EPA 200.7	**Calcium**	30.5	mg/L	0.100	0.069		X521072	JRR	05/22/25 07:33	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X521072	JRR	05/22/25 07:33	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X521072	JRR	05/22/25 07:33	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X521072	JRR	05/22/25 07:33	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X521072	JRR	05/22/25 07:33	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X521072	JRR	05/22/25 07:33	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X521072	JRR	05/22/25 07:33	
EPA 200.7	**Magnesium**	11.4	mg/L	0.500	0.090		X521072	JRR	05/22/25 07:33	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X521072	JRR	05/22/25 07:33	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X521072	JRR	05/22/25 07:33	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X521072	JRR	05/22/25 07:33	
EPA 200.7	**Potassium**	0.86	mg/L	0.50	0.18		X521072	JRR	05/22/25 07:33	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X521072	JRR	05/22/25 07:33	
EPA 200.7	**Sodium**	10.5	mg/L	0.50	0.12		X521072	JRR	05/22/25 07:33	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X521072	JRR	05/22/25 07:33	
EPA 200.7	**Zinc**	0.0163	mg/L	0.0100	0.0054		X521072	JRR	05/22/25 07:33	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X521038	NMS	05/21/25 08:51	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X521038	NMS	05/21/25 08:51	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X521038	NMS	05/21/25 08:51	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X521038	NMS	05/21/25 08:51	
EPA 200.8	**Uranium**	0.000363	mg/L	0.000100	0.000052		X521038	NMS	05/21/25 08:51	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X520201	MAC	05/20/25 15:28	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X521008	JPM	05/19/25 13:29	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X521058	JPM	05/21/25 12:46	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X521016	JPM	05/20/25 23:10	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X521009	JPM	05/21/25 17:41	
SM 2310 B	**Acidity to pH 8.3**	-53.4	mg/L as CaCO3	10.0			X521021	MWD	05/19/25 11:27	
SM 2320 B	**Total Alkalinity**	56.9	mg/L as CaCO3	1.0			X520165	MWD	05/16/25 14:21	
SM 2320 B	**Bicarbonate**	56.9	mg/L as CaCO3	1.0			X520165	MWD	05/16/25 14:21	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X520165	MWD	05/16/25 14:21	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X520165	MWD	05/16/25 14:21	
SM 2540 C	**Total Diss. Solids**	230	mg/L	10			X520149	TJL	05/16/25 13:30	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X520150	TJL	05/16/25 12:50	
SM 4500 H B	**pH @19.2°C**	6.7	pH Units				X520165	MWD	05/16/25 14:21	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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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: **X5E0161**
Reported: 23-May-25 14:50

Client Sample ID: **GVMW-7B**
SVL Sample ID: **X5E0161-01 (Ground Water)**

Sampled: 12-May-25 13:00
Received: 13-May-25
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	10.5	mg/L	0.20	0.02		X520061	RS	05/13/25 14:28	
EPA 300.0	**Fluoride**	0.349	mg/L	0.100	0.017		X520061	RS	05/13/25 14:28	
EPA 300.0	**Nitrate as N**	0.888	mg/L	0.050	0.013		X520061	RS	05/13/25 14:28	
EPA 300.0	**Nitrate+Nitrite as N**	0.888	mg/L	0.100	0.044		X520061	RS	05/13/25 14:28	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X520061	RS	05/13/25 14:28	
EPA 300.0	**Sulfate as SO4**	69.7	mg/L	3.00	1.80	10	X520061	RS	05/13/25 14:44	

Cation/Anion Balance and TDS Ratios

Cation Sum: 2.86 meq/L Anion Sum: 2.97 meq/L C/A Balance: -1.81 % Calculated TDS: 171 TDS/cTDS: 1.34

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: **X5E0161**
Reported: 23-May-25 14:50

Client Sample ID: **GVMW-7A**
SVL Sample ID: **X5E0161-02 (Ground Water)**

Sampled: 12-May-25 10:55
Received: 13-May-25
Sampled By: JC

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**	46.6	mg/L	0.100	0.069		X520146	JRR	05/19/25 11:11	
EPA 200.7	**Magnesium**	21.7	mg/L	0.500	0.090		X520146	JRR	05/19/25 11:11	
EPA 200.7	**Potassium**	0.97	mg/L	0.50	0.18		X520146	JRR	05/19/25 11:11	
SM 2340 B	**Hardness (as CaCO3)**	206	mg/L	2.31	0.543		N/A		05/22/25 07:38	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X521072	JRR	05/22/25 07:38	
EPA 200.7	**Barium**	0.211	mg/L	0.0020	0.0019		X521072	JRR	05/22/25 09:15	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X521072	JRR	05/22/25 07:38	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X521072	JRR	05/22/25 09:15	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X521072	JRR	05/22/25 07:38	
EPA 200.7	**Calcium**	47.3	mg/L	0.100	0.069		X521072	JRR	05/22/25 07:38	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X521072	JRR	05/22/25 07:38	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X521072	JRR	05/22/25 07:38	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X521072	JRR	05/22/25 07:38	
EPA 200.7	**Iron**	1.38	mg/L	0.100	0.056		X521072	JRR	05/22/25 07:38	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X521072	JRR	05/22/25 07:38	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X521072	JRR	05/22/25 07:38	
EPA 200.7	**Magnesium**	21.7	mg/L	0.500	0.090		X521072	JRR	05/22/25 07:38	
EPA 200.7	**Manganese**	0.253	mg/L	0.0080	0.0034		X521072	JRR	05/22/25 07:38	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X521072	JRR	05/22/25 07:38	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X521072	JRR	05/22/25 07:38	
EPA 200.7	**Potassium**	1.07	mg/L	0.50	0.18		X521072	JRR	05/22/25 07:38	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X521072	JRR	05/22/25 07:38	
EPA 200.7	**Sodium**	10.4	mg/L	0.50	0.12		X521072	JRR	05/22/25 07:38	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X521072	JRR	05/22/25 07:38	
EPA 200.7	**Zinc**	0.0153	mg/L	0.0100	0.0054		X521072	JRR	05/22/25 07:38	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X521038	NMS	05/21/25 09:00	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X521038	NMS	05/21/25 09:00	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X521038	NMS	05/21/25 09:00	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X521038	NMS	05/21/25 09:00	
EPA 200.8	**Uranium**	0.00477	mg/L	0.000100	0.000052		X521038	NMS	05/21/25 09:00	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X520201	MAC	05/20/25 15:35	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X521008	JPM	05/19/25 13:32	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X521058	JPM	05/21/25 12:48	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X521016	JPM	05/20/25 23:13	M1
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X521009	JPM	05/21/25 17:44	
SM 2310 B	**Acidity to pH 8.3**	-187	mg/L as CaCO3	10.0			X521021	MWD	05/19/25 11:27	
SM 2320 B	**Total Alkalinity**	181	mg/L as CaCO3	1.0			X520165	MWD	05/16/25 14:27	
SM 2320 B	**Bicarbonate**	181	mg/L as CaCO3	1.0			X520165	MWD	05/16/25 14:27	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X520165	MWD	05/16/25 14:27	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X520165	MWD	05/16/25 14:27	
SM 2540 C	**Total Diss. Solids**	280	mg/L	10			X520149	TJL	05/16/25 13:30	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X520150	TJL	05/16/25 12:50	
SM 4500 H B	**pH @19.2°C**	7.6	pH Units				X520165	MWD	05/16/25 14:27	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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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: **X5E0161**
Reported: 23-May-25 14:50

Client Sample ID: **GVMW-7A**
SVL Sample ID: **X5E0161-02 (Ground Water)**

Sampled: 12-May-25 10:55
Received: 13-May-25
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	18.0	mg/L	2.00	0.22	10	X520061	RS	05/13/25 15:15	
EPA 300.0	**Fluoride**	0.810	mg/L	0.100	0.017		X520061	RS	05/13/25 14:59	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X520061	RS	05/13/25 14:59	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X520061	RS	05/13/25 14:59	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X520061	RS	05/13/25 14:59	
EPA 300.0	**Sulfate as SO4**	26.3	mg/L	0.30	0.18		X520061	RS	05/13/25 14:59	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 4.66 meq/L Anion Sum: 4.72 meq/L C/A Balance: -0.60 % Calculated TDS: 234 TDS/cTDS: 1.20

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: **X5E0161**
Reported: 23-May-25 14:50

Client Sample ID: **GVMW-8A**
SVL Sample ID: **X5E0161-03 (Ground Water)**

Sampled: 12-May-25 09:30
Received: 13-May-25
Sampled By: JC

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**	50.2	mg/L	0.100	0.069		X520146	JRR	05/19/25 11:13	
EPA 200.7	**Magnesium**	6.56	mg/L	0.500	0.090		X520146	JRR	05/19/25 11:13	
EPA 200.7	**Potassium**	0.75	mg/L	0.50	0.18		X520146	JRR	05/19/25 11:13	
SM 2340 B	**Hardness (as CaCO3)**	154	mg/L	2.31	0.543		N/A		05/19/25 11:13	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X521072	JRR	05/22/25 07:39	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X521072	JRR	05/22/25 09:19	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X521072	JRR	05/22/25 07:39	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X521072	JRR	05/22/25 09:19	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X521072	JRR	05/22/25 07:39	
EPA 200.7	**Calcium**	50.8	mg/L	0.100	0.069		X521072	JRR	05/22/25 07:39	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X521072	JRR	05/22/25 07:39	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X521072	JRR	05/22/25 07:39	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X521072	JRR	05/22/25 07:39	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X521072	JRR	05/22/25 07:39	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X521072	JRR	05/22/25 07:39	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X521072	JRR	05/22/25 07:39	
EPA 200.7	**Magnesium**	6.57	mg/L	0.500	0.090		X521072	JRR	05/22/25 07:39	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X521072	JRR	05/22/25 07:39	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X521072	JRR	05/22/25 07:39	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X521072	JRR	05/22/25 07:39	
EPA 200.7	**Potassium**	0.83	mg/L	0.50	0.18		X521072	JRR	05/22/25 07:39	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X521072	JRR	05/22/25 07:39	
EPA 200.7	**Sodium**	24.5	mg/L	0.50	0.12		X521072	JRR	05/22/25 07:39	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X521072	JRR	05/22/25 07:39	
EPA 200.7	**Zinc**	0.0124	mg/L	0.0100	0.0054		X521072	JRR	05/22/25 07:39	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X521038	NMS	05/21/25 09:03	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X521038	NMS	05/21/25 09:03	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X521038	NMS	05/21/25 09:03	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X521038	NMS	05/21/25 09:03	
EPA 200.8	**Uranium**	0.00490	mg/L	0.000100	0.000052		X521038	NMS	05/21/25 09:03	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X520201	MAC	05/20/25 15:37	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X521008	JPM	05/19/25 13:34	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X521058	JPM	05/21/25 12:50	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X521016	JPM	05/20/25 23:15	M1
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X521009	JPM	05/21/25 17:47	
SM 2310 B	**Acidity to pH 8.3**	-43.8	mg/L as CaCO3	10.0			X521021	MWD	05/19/25 11:27	
SM 2320 B	**Total Alkalinity**	48.8	mg/L as CaCO3	1.0			X520165	MWD	05/16/25 14:32	
SM 2320 B	**Bicarbonate**	48.8	mg/L as CaCO3	1.0			X520165	MWD	05/16/25 14:32	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X520165	MWD	05/16/25 14:32	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X520165	MWD	05/16/25 14:32	
SM 2540 C	**Total Diss. Solids**	318	mg/L	10			X520149	TJL	05/16/25 13:30	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X520150	TJL	05/16/25 12:50	
SM 4500 H B	**pH @19.2°C**	7.1	pH Units				X520165	MWD	05/16/25 14:32	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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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: **X5E0161**
Reported: 23-May-25 14:50

Client Sample ID: **GVMW-8A**
SVL Sample ID: **X5E0161-03 (Ground Water)**

Sampled: 12-May-25 09:30
Received: 13-May-25
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	63.1	mg/L	2.00	0.22	10	X520061	RS	05/13/25 15:46	
EPA 300.0	**Fluoride**	1.87	mg/L	0.100	0.017		X520061	RS	05/13/25 15:30	
EPA 300.0	**Nitrate as N**	1.27	mg/L	0.050	0.013		X520061	RS	05/13/25 15:30	
EPA 300.0	**Nitrate+Nitrite as N**	1.27	mg/L	0.100	0.044		X520061	RS	05/13/25 15:30	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X520061	RS	05/13/25 15:30	
EPA 300.0	**Sulfate as SO4**	61.2	mg/L	3.00	1.80	10	X520061	RS	05/13/25 15:46	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 4.14 meq/L Anion Sum: 4.22 meq/L C/A Balance: -0.90 % Calculated TDS: 243 TDS/cTDS: 1.31

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: **X5E0161**
Reported: 23-May-25 14:50

Client Sample ID: **GVMW-8B**
SVL Sample ID: **X5E0161-04 (Ground Water)**

Sampled: 12-May-25 08:40
Received: 13-May-25
Sampled By: JC

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**	45.2	mg/L	0.100	0.069		X520146	JRR	05/19/25 11:15	
EPA 200.7	**Magnesium**	7.21	mg/L	0.500	0.090		X520146	JRR	05/19/25 11:15	
EPA 200.7	**Potassium**	1.26	mg/L	0.50	0.18		X520146	JRR	05/19/25 11:15	
SM 2340 B	**Hardness (as CaCO3)**	143	mg/L	2.31	0.543		N/A		05/19/25 11:15	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X521072	JRR	05/22/25 07:41	
EPA 200.7	**Barium**	0.0062	mg/L	0.0020	0.0019		X521072	JRR	05/22/25 09:23	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X521072	JRR	05/22/25 07:41	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X521072	JRR	05/22/25 09:23	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X521072	JRR	05/22/25 07:41	
EPA 200.7	**Calcium**	46.3	mg/L	0.100	0.069		X521072	JRR	05/22/25 07:41	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X521072	JRR	05/22/25 07:41	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X521072	JRR	05/22/25 07:41	
EPA 200.7	**Copper**	0.0350	mg/L	0.0100	0.0027		X521072	JRR	05/22/25 07:41	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X521072	JRR	05/22/25 07:41	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X521072	JRR	05/22/25 07:41	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X521072	JRR	05/22/25 07:41	
EPA 200.7	**Magnesium**	7.31	mg/L	0.500	0.090		X521072	JRR	05/22/25 07:41	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X521072	JRR	05/22/25 07:41	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X521072	JRR	05/22/25 07:41	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X521072	JRR	05/22/25 07:41	
EPA 200.7	**Potassium**	1.44	mg/L	0.50	0.18		X521072	JRR	05/22/25 07:41	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X521072	JRR	05/22/25 07:41	
EPA 200.7	**Sodium**	24.9	mg/L	0.50	0.12		X521072	JRR	05/22/25 07:41	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X521072	JRR	05/22/25 07:41	
EPA 200.7	**Zinc**	0.0135	mg/L	0.0100	0.0054		X521072	JRR	05/22/25 07:41	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X521038	NMS	05/21/25 09:06	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X521038	NMS	05/21/25 09:06	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X521038	NMS	05/21/25 09:06	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X521038	NMS	05/21/25 09:06	
EPA 200.8	**Uranium**	0.00286	mg/L	0.000100	0.000052		X521038	NMS	05/21/25 09:06	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X520201	MAC	05/20/25 15:39	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X521008	JPM	05/19/25 13:37	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X521058	JPM	05/21/25 12:52	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X521016	JPM	05/20/25 23:18	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X521009	JPM	05/21/25 15:21	
SM 2310 B	**Acidity to pH 8.3**	-43.8	mg/L as CaCO3	10.0			X521021	MWD	05/19/25 11:27	
SM 2320 B	**Total Alkalinity**	40.8	mg/L as CaCO3	1.0			X520165	MWD	05/16/25 14:46	
SM 2320 B	**Bicarbonate**	40.8	mg/L as CaCO3	1.0			X520165	MWD	05/16/25 14:46	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X520165	MWD	05/16/25 14:46	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X520165	MWD	05/16/25 14:46	
SM 2540 C	**Total Diss. Solids**	308	mg/L	10			X520149	TJL	05/16/25 13:30	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X520150	TJL	05/16/25 12:50	
SM 4500 H B	**pH @19.3°C**	6.9	pH Units				X520165	MWD	05/16/25 14:46	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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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: **X5E0161**
Reported: 23-May-25 14:50

Client Sample ID: **GVMW-8B**
SVL Sample ID: **X5E0161-04 (Ground Water)**

Sampled: 12-May-25 08:40
Received: 13-May-25
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	49.4	mg/L	2.00	0.22	10	X520061	RS	05/13/25 16:17	
EPA 300.0	**Fluoride**	2.08	mg/L	0.100	0.017		X520061	RS	05/13/25 16:01	
EPA 300.0	**Nitrate as N**	2.04	mg/L	0.050	0.013		X520061	RS	05/13/25 16:01	
EPA 300.0	**Nitrate+Nitrite as N**	2.04	mg/L	0.100	0.044		X520061	RS	05/13/25 16:01	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X520061	RS	05/13/25 16:01	
EPA 300.0	**Sulfate as SO4**	79.4	mg/L	3.00	1.80	10	X520061	RS	05/13/25 16:17	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 3.98 meq/L Anion Sum: 4.12 meq/L C/A Balance: -1.71 % Calculated TDS: 244 TDS/cTDS: 1.26

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: **X5E0161**
Reported: 23-May-25 14:50

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	X520146	19-May-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X520146	19-May-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X520146	19-May-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X521072	22-May-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X521072	22-May-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X521072	22-May-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X521072	22-May-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X521072	22-May-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X521072	22-May-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X521072	22-May-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X521072	22-May-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X521072	22-May-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X521072	22-May-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X521072	22-May-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X521072	22-May-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X521072	22-May-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X521072	22-May-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X521072	22-May-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X521072	22-May-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X521072	22-May-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X521072	22-May-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X521072	22-May-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X521072	22-May-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X521072	22-May-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X521038	21-May-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X521038	21-May-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X521038	21-May-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X521038	21-May-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X521038	21-May-25	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X520201	20-May-25	
Classical Chemistry Parameters								
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X521008	19-May-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X521058	21-May-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X521016	20-May-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X521009	21-May-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X521021	19-May-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X520165	16-May-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X520165	16-May-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X520165	16-May-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X520165	16-May-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X520149	16-May-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X520150	16-May-25	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X520061	13-May-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X520061	13-May-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X520061	13-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X520061	13-May-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X520061	13-May-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X520061	13-May-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: **X5E0161**
Reported: 23-May-25 14:50

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	19.4	20.0	97	85 - 115	X520146	19-May-25	
EPA 200.7	Magnesium	mg/L	20.2	20.0	101	85 - 115	X520146	19-May-25	
EPA 200.7	Potassium	mg/L	18.9	20.0	94.6	85 - 115	X520146	19-May-25	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.964	1.00	96.4	85 - 115	X521072	22-May-25	
EPA 200.7	Barium	mg/L	1.02	1.00	102	85 - 115	X521072	22-May-25	
EPA 200.7	Beryllium	mg/L	0.990	1.00	99.0	85 - 115	X521072	22-May-25	
EPA 200.7	Boron	mg/L	1.05	1.00	105	85 - 115	X521072	22-May-25	
EPA 200.7	Cadmium	mg/L	0.984	1.00	98.4	85 - 115	X521072	22-May-25	
EPA 200.7	Calcium	mg/L	19.6	20.0	97.9	85 - 115	X521072	22-May-25	
EPA 200.7	Chromium	mg/L	1.00	1.00	100	85 - 115	X521072	22-May-25	
EPA 200.7	Cobalt	mg/L	0.968	1.00	96.8	85 - 115	X521072	22-May-25	
EPA 200.7	Copper	mg/L	0.961	1.00	96.1	85 - 115	X521072	22-May-25	
EPA 200.7	Iron	mg/L	9.99	10.0	99.9	85 - 115	X521072	22-May-25	
EPA 200.7	Lead	mg/L	0.990	1.00	99.0	85 - 115	X521072	22-May-25	
EPA 200.7	Lithium	mg/L	0.947	1.00	94.7	85 - 115	X521072	22-May-25	
EPA 200.7	Magnesium	mg/L	20.0	20.0	100	85 - 115	X521072	22-May-25	
EPA 200.7	Manganese	mg/L	0.997	1.00	99.7	85 - 115	X521072	22-May-25	
EPA 200.7	Molybdenum	mg/L	0.990	1.00	99.0	85 - 115	X521072	22-May-25	
EPA 200.7	Nickel	mg/L	0.974	1.00	97.4	85 - 115	X521072	22-May-25	
EPA 200.7	Potassium	mg/L	19.8	20.0	99.2	85 - 115	X521072	22-May-25	
EPA 200.7	Silver	mg/L	0.0498	0.0500	99.7	85 - 115	X521072	22-May-25	
EPA 200.7	Sodium	mg/L	19.0	19.0	100	85 - 115	X521072	22-May-25	
EPA 200.7	Vanadium	mg/L	1.01	1.00	101	85 - 115	X521072	22-May-25	
EPA 200.7	Zinc	mg/L	1.01	1.00	101	85 - 115	X521072	22-May-25	
EPA 200.8	Antimony	mg/L	0.0217	0.0250	87.0	85 - 115	X521038	21-May-25	
EPA 200.8	Arsenic	mg/L	0.0228	0.0250	91.2	85 - 115	X521038	21-May-25	
EPA 200.8	Selenium	mg/L	0.0225	0.0250	89.9	85 - 115	X521038	21-May-25	
EPA 200.8	Thallium	mg/L	0.0226	0.0250	90.6	85 - 115	X521038	21-May-25	
EPA 200.8	Uranium	mg/L	0.0240	0.0250	96.0	85 - 115	X521038	21-May-25	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00219	0.00200	109	85 - 115	X520201	20-May-25	
Classical Chemistry Parameters									
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.101	0.100	101	90 - 110	X521008	19-May-25	
EPA 335.4	Cyanide (total)	mg/L	0.102	0.100	102	90 - 110	X521058	21-May-25	
EPA 350.1	Ammonia as N	mg/L	0.955	1.00	95.5	90 - 110	X521016	20-May-25	
OIA 1677	Cyanide (WAD)	mg/L	0.0972	0.100	97.2	90 - 110	X521009	21-May-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1210	1180	102	95.4 - 104	X521021	19-May-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	97.6	99.3	98.3	94 - 106	X520165	16-May-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	398	397	100	94 - 106	X520165	16-May-25	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X520150	16-May-25	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.01	3.00	100	90 - 110	X520061	13-May-25	
EPA 300.0	Fluoride	mg/L	1.98	2.00	98.8	90 - 110	X520061	13-May-25	
EPA 300.0	Nitrate as N	mg/L	1.97	2.00	98.4	90 - 110	X520061	13-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.51	4.50	100	90 - 110	X520061	13-May-25	
EPA 300.0	Nitrite as N	mg/L	2.54	2.50	102	90 - 110	X520061	13-May-25	
EPA 300.0	Sulfate as SO4	mg/L	9.96	10.0	99.6	90 - 110	X520061	13-May-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: **X5E0161**
Reported: 23-May-25 14:50

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	<10.0	<10.0	UDL	20	X521021 - X5E0131-01	19-May-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	180	181	0.8	20	X520165 - X5E0161-02	16-May-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	180	181	0.8	20	X520165 - X5E0161-02	16-May-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X520165 - X5E0161-02	16-May-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X520165 - X5E0161-02	16-May-25	
SM 2540 C	Total Diss. Solids	mg/L	298	306	2.7	10	X520149 - X5E0200-01	16-May-25	
SM 2540 C	Total Diss. Solids	mg/L	374	401	7.0	10	X520149 - X5E0171-01	16-May-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X520150 - X5E0171-01	16-May-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X520150 - X5E0200-01	16-May-25	
SM 4500 H B	pH @19.2°C	pH Units	7.5	7.6	1.2	20	X520165 - X5E0161-02	16-May-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	70.1	49.8	20.0	102	70 - 130	X520146 - X5E0153-01	19-May-25	
EPA 200.7	Calcium	mg/L	26.7	7.09	20.0	98	70 - 130	X520146 - X5E0167-01	19-May-25	
EPA 200.7	Magnesium	mg/L	54.6	33.6	20.0	105	70 - 130	X520146 - X5E0153-01	19-May-25	
EPA 200.7	Magnesium	mg/L	22.7	2.35	20.0	102	70 - 130	X520146 - X5E0167-01	19-May-25	
EPA 200.7	Potassium	mg/L	26.1	7.08	20.0	95.0	70 - 130	X520146 - X5E0153-01	19-May-25	
EPA 200.7	Potassium	mg/L	19.7	0.69	20.0	95.2	70 - 130	X520146 - X5E0167-01	19-May-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.960	<0.080	1.00	96.0	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Aluminum	mg/L	0.978	<0.080	1.00	97.8	70 - 130	X521072 - X5E0200-01	22-May-25	
EPA 200.7	Barium	mg/L	1.03	0.0372	1.00	99.0	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Barium	mg/L	1.07	0.0471	1.00	102	70 - 130	X521072 - X5E0200-01	22-May-25	
EPA 200.7	Beryllium	mg/L	0.988	<0.00200	1.00	98.8	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Beryllium	mg/L	1.01	<0.00200	1.00	101	70 - 130	X521072 - X5E0200-01	22-May-25	
EPA 200.7	Boron	mg/L	1.07	<0.0400	1.00	106	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Boron	mg/L	1.11	0.0411	1.00	107	70 - 130	X521072 - X5E0200-01	22-May-25	
EPA 200.7	Cadmium	mg/L	0.987	<0.0020	1.00	98.7	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Cadmium	mg/L	0.991	<0.0020	1.00	99.1	70 - 130	X521072 - X5E0200-01	22-May-25	
EPA 200.7	Calcium	mg/L	50.1	30.5	20.0	98.1	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Calcium	mg/L	73.8	53.9	20.0	99.8	70 - 130	X521072 - X5E0200-01	22-May-25	
EPA 200.7	Chromium	mg/L	1.00	<0.0060	1.00	100	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Chromium	mg/L	1.01	<0.0060	1.00	101	70 - 130	X521072 - X5E0200-01	22-May-25	
EPA 200.7	Cobalt	mg/L	0.953	<0.0060	1.00	95.3	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Cobalt	mg/L	0.972	<0.0060	1.00	97.2	70 - 130	X521072 - X5E0200-01	22-May-25	
EPA 200.7	Copper	mg/L	0.971	<0.0100	1.00	97.1	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Copper	mg/L	0.992	<0.0100	1.00	98.6	70 - 130	X521072 - X5E0200-01	22-May-25	
EPA 200.7	Iron	mg/L	10.0	<0.100	10.0	99.5	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Iron	mg/L	10.0	<0.100	10.0	100	70 - 130	X521072 - X5E0200-01	22-May-25	
EPA 200.7	Lead	mg/L	0.980	<0.0075	1.00	98.0	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Lead	mg/L	0.999	<0.0075	1.00	99.9	70 - 130	X521072 - X5E0200-01	22-May-25	
EPA 200.7	Lithium	mg/L	0.979	<0.040	1.00	97.9	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Lithium	mg/L	1.04	<0.040	1.00	101	70 - 130	X521072 - X5E0200-01	22-May-25	
EPA 200.7	Magnesium	mg/L	31.7	11.4	20.0	102	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Magnesium	mg/L	28.8	8.34	20.0	103	70 - 130	X521072 - X5E0200-01	22-May-25	

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Cripple Creek & Victor Gold Mining Company
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Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X5E0161**
Reported: 23-May-25 14:50

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	1.00	<0.0080	1.00	99.7	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Manganese	mg/L	1.00	<0.0080	1.00	100	70 - 130	X521072 - X5E0200-01	22-May-25	
EPA 200.7	Molybdenum	mg/L	0.989	<0.0080	1.00	98.9	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Molybdenum	mg/L	1.04	0.0339	1.00	101	70 - 130	X521072 - X5E0200-01	22-May-25	
EPA 200.7	Nickel	mg/L	0.955	<0.0100	1.00	95.5	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Nickel	mg/L	0.974	<0.0100	1.00	97.4	70 - 130	X521072 - X5E0200-01	22-May-25	
EPA 200.7	Potassium	mg/L	20.7	0.86	20.0	99.0	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Potassium	mg/L	23.3	3.54	20.0	98.9	70 - 130	X521072 - X5E0200-01	22-May-25	
EPA 200.7	Silver	mg/L	0.0498	<0.0050	0.0500	99.7	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Silver	mg/L	0.0509	<0.0050	0.0500	102	70 - 130	X521072 - X5E0200-01	22-May-25	
EPA 200.7	Sodium	mg/L	29.3	10.5	19.0	98.8	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Sodium	mg/L	48.7	29.8	19.0	99.3	70 - 130	X521072 - X5E0200-01	22-May-25	
EPA 200.7	Vanadium	mg/L	1.01	<0.0050	1.00	101	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Vanadium	mg/L	1.03	<0.0050	1.00	102	70 - 130	X521072 - X5E0200-01	22-May-25	
EPA 200.7	Zinc	mg/L	1.02	0.0163	1.00	101	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Zinc	mg/L	1.03	<0.0100	1.00	103	70 - 130	X521072 - X5E0200-01	22-May-25	
EPA 200.8	Antimony	mg/L	0.0225	<0.00100	0.0250	89.9	70 - 130	X521038 - X5E0161-01	21-May-25	
EPA 200.8	Antimony	mg/L	0.0231	<0.00100	0.0250	92.6	70 - 130	X521038 - X5E0240-01	21-May-25	
EPA 200.8	Arsenic	mg/L	0.0230	<0.00100	0.0250	92.2	70 - 130	X521038 - X5E0161-01	21-May-25	
EPA 200.8	Arsenic	mg/L	0.0246	<0.00100	0.0250	98.5	70 - 130	X521038 - X5E0240-01	21-May-25	
EPA 200.8	Selenium	mg/L	0.0247	<0.00100	0.0250	98.8	70 - 130	X521038 - X5E0161-01	21-May-25	
EPA 200.8	Selenium	mg/L	0.0243	<0.00100	0.0250	97.3	70 - 130	X521038 - X5E0240-01	21-May-25	
EPA 200.8	Thallium	mg/L	0.0219	<0.000200	0.0250	87.7	70 - 130	X521038 - X5E0161-01	21-May-25	
EPA 200.8	Thallium	mg/L	0.0246	<0.000200	0.0250	98.5	70 - 130	X521038 - X5E0240-01	21-May-25	
EPA 200.8	Uranium	mg/L	0.0248	0.000363	0.0250	97.9	70 - 130	X521038 - X5E0161-01	21-May-25	
EPA 200.8	Uranium	mg/L	0.0260	0.000133	0.0250	104	70 - 130	X521038 - X5E0240-01	21-May-25	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00214	<0.000200	0.00200	107	70 - 130	X520201 - X5E0161-01	20-May-25	
EPA 245.1	Mercury	mg/L	0.00207	<0.000200	0.00200	103	70 - 130	X520201 - X5E0250-01	20-May-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.103	<0.0050	0.100	103	79 - 121	X521008 - X5E0056-02	19-May-25	
EPA 335.4	Cyanide (total)	mg/L	0.101	<0.0050	0.100	101	90 - 110	X521058 - X5E0161-01	21-May-25	
EPA 335.4	Cyanide (total)	mg/L	0.103	<0.0050	0.100	103	90 - 110	X521058 - X5E0161-02	21-May-25	
EPA 350.1	Ammonia as N	mg/L	1.19	<0.030	1.00	119	90 - 110	X521016 - X5E0161-03	20-May-25	M1
EPA 350.1	Ammonia as N	mg/L	1.25	<0.030	1.00	125	90 - 110	X521016 - X5E0161-02	20-May-25	M1
OIA 1677	Cyanide (WAD)	mg/L	0.102	<0.0050	0.100	102	82 - 118	X521009 - X5E0161-01	21-May-25	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	7.17	4.04	3.00	104	90 - 110	X520061 - X5E0145-06	13-May-25	
EPA 300.0	Chloride	mg/L	3.04	<0.20	3.00	101	90 - 110	X520061 - X5E0145-11	13-May-25	
EPA 300.0	Fluoride	mg/L	1.99	<0.100	2.00	96.2	90 - 110	X520061 - X5E0145-06	13-May-25	
EPA 300.0	Fluoride	mg/L	1.98	<0.100	2.00	99.1	90 - 110	X520061 - X5E0145-11	13-May-25	
EPA 300.0	Nitrate as N	mg/L	3.71	1.64	2.00	104	90 - 110	X520061 - X5E0145-06	13-May-25	
EPA 300.0	Nitrate as N	mg/L	1.98	<0.050	2.00	98.8	90 - 110	X520061 - X5E0145-11	13-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	5.71	1.64	4.00	102	90 - 110	X520061 - X5E0145-06	13-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.98	<0.100	4.00	99.5	90 - 110	X520061 - X5E0145-11	13-May-25	
EPA 300.0	Nitrite as N	mg/L	2.00	<0.050	2.00	100	90 - 110	X520061 - X5E0145-06	13-May-25	
EPA 300.0	Nitrite as N	mg/L	2.00	<0.050	2.00	100	90 - 110	X520061 - X5E0145-11	13-May-25	
EPA 300.0	Sulfate as SO4	mg/L	25.3	15.2	10.0	101	90 - 110	X520061 - X5E0145-06	13-May-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: **X5E0161**
Reported: 23-May-25 14:50

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	10.1	<0.30	10.0	101	90 - 110	X520061 - X5E0145-11	13-May-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	69.8	70.1	20.0	0.4	20	100	X520146 - X5E0153-01	
EPA 200.7	Magnesium	mg/L	54.1	54.6	20.0	0.9	20	103	X520146 - X5E0153-01	
EPA 200.7	Potassium	mg/L	26.0	26.1	20.0	0.4	20	94.4	X520146 - X5E0153-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.967	0.960	1.00	0.8	20	96.7	X521072 - X5E0161-01	
EPA 200.7	Barium	mg/L	1.04	1.03	1.00	1.7	20	101	X521072 - X5E0161-01	
EPA 200.7	Beryllium	mg/L	0.990	0.988	1.00	0.3	20	99.0	X521072 - X5E0161-01	
EPA 200.7	Boron	mg/L	1.08	1.07	1.00	0.9	20	107	X521072 - X5E0161-01	
EPA 200.7	Cadmium	mg/L	0.983	0.987	1.00	0.3	20	98.3	X521072 - X5E0161-01	
EPA 200.7	Calcium	mg/L	50.1	50.1	20.0	0.0	20	98.1	X521072 - X5E0161-01	
EPA 200.7	Chromium	mg/L	1.01	1.00	1.00	0.2	20	101	X521072 - X5E0161-01	
EPA 200.7	Cobalt	mg/L	0.957	0.953	1.00	0.5	20	95.7	X521072 - X5E0161-01	
EPA 200.7	Copper	mg/L	0.974	0.971	1.00	0.2	20	97.4	X521072 - X5E0161-01	
EPA 200.7	Iron	mg/L	10.0	10.0	10.0	0.2	20	99.7	X521072 - X5E0161-01	
EPA 200.7	Lead	mg/L	0.989	0.980	1.00	0.9	20	98.9	X521072 - X5E0161-01	
EPA 200.7	Lithium	mg/L	0.984	0.979	1.00	0.5	20	98.4	X521072 - X5E0161-01	
EPA 200.7	Magnesium	mg/L	31.7	31.7	20.0	0.0	20	102	X521072 - X5E0161-01	
EPA 200.7	Manganese	mg/L	1.00	1.00	1.00	0.1	20	99.6	X521072 - X5E0161-01	
EPA 200.7	Molybdenum	mg/L	0.993	0.989	1.00	0.5	20	99.3	X521072 - X5E0161-01	
EPA 200.7	Nickel	mg/L	0.961	0.955	1.00	0.7	20	96.1	X521072 - X5E0161-01	
EPA 200.7	Potassium	mg/L	20.6	20.7	20.0	0.1	20	98.8	X521072 - X5E0161-01	
EPA 200.7	Silver	mg/L	0.0500	0.0498	0.0500	0.3	20	99.9	X521072 - X5E0161-01	
EPA 200.7	Sodium	mg/L	29.3	29.3	19.0	0.1	20	98.9	X521072 - X5E0161-01	
EPA 200.7	Vanadium	mg/L	1.01	1.01	1.00	0.3	20	101	X521072 - X5E0161-01	
EPA 200.7	Zinc	mg/L	1.03	1.02	1.00	0.4	20	101	X521072 - X5E0161-01	
EPA 200.8	Antimony	mg/L	0.0233	0.0225	0.0250	3.6	20	93.2	X521038 - X5E0161-01	
EPA 200.8	Arsenic	mg/L	0.0237	0.0230	0.0250	2.7	20	94.7	X521038 - X5E0161-01	
EPA 200.8	Selenium	mg/L	0.0255	0.0247	0.0250	3.2	20	102	X521038 - X5E0161-01	
EPA 200.8	Thallium	mg/L	0.0229	0.0219	0.0250	4.2	20	91.5	X521038 - X5E0161-01	
EPA 200.8	Uranium	mg/L	0.0256	0.0248	0.0250	3.1	20	101	X521038 - X5E0161-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00221	0.00214	0.00200	3.1	20	110	X520201 - X5E0161-01	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.107	0.103	0.100	3.7	11	107	X521008 - X5E0056-02	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.101	0.100	2.2	20	103	X521058 - X5E0161-01	
EPA 350.1	Ammonia as N	mg/L	1.11	1.19	1.00	7.0	20	111	X521016 - X5E0161-03	M1
OIA 1677	Cyanide (WAD)	mg/L	0.0997	0.102	0.100	1.8	11	99.7	X521009 - X5E0161-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	7.07	7.17	3.00	1.3	20	101	X520061 - X5E0145-06	
EPA 300.0	Fluoride	mg/L	2.01	1.99	2.00	0.8	20	97.0	X520061 - X5E0145-06	
EPA 300.0	Nitrate as N	mg/L	3.68	3.71	2.00	1.0	20	102	X520061 - X5E0145-06	
EPA 300.0	Nitrate+Nitrite as N	mg/L	5.66	5.71	4.00	0.9	20	101	X520061 - X5E0145-06	
EPA 300.0	Nitrite as N	mg/L	1.99	2.00	2.00	0.7	20	99.4	X520061 - X5E0145-06	

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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: **X5E0161**
Reported: 23-May-25 14:50

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	25.3	25.3	10.0	0.0	20	101	X520061 - X5E0145-06	

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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: **X5E0161**
Cripple Creek, CO 80813	Reported: 23-May-25 14:50

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.
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	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Ironclad Security 1632 County Rd 82	Work Order: **X5E0162**
Cripple Creek, CO 80813	Reported: 23-May-25 14:58

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-107F	X5E0162-01	Ground Water	12-May-25 10:55	JC	13-May-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.

Case Narrative: X5E0162

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: **X5E0162**
Reported: 23-May-25 14:58

Client Sample ID: **GVMW-107F**
SVL Sample ID: **X5E0162-01 (Ground Water)**

Sampled: 12-May-25 10:55
Received: 13-May-25
Sampled By: JC

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**	46.7	mg/L	0.100	0.069		X520146	JRR	05/19/25 11:16	
EPA 200.7	**Magnesium**	21.9	mg/L	0.500	0.090		X520146	JRR	05/19/25 11:16	
EPA 200.7	**Potassium**	0.98	mg/L	0.50	0.18		X520146	JRR	05/19/25 11:16	
SM 2340 B	**Hardness (as CaCO3)**	207	mg/L	2.31	0.543		N/A		05/22/25 07:43	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X521072	JRR	05/22/25 07:43	
EPA 200.7	**Barium**	0.212	mg/L	0.0020	0.0019		X521072	JRR	05/22/25 09:27	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X521072	JRR	05/22/25 07:43	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X521072	JRR	05/22/25 09:27	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X521072	JRR	05/22/25 07:43	
EPA 200.7	**Calcium**	47.0	mg/L	0.100	0.069		X521072	JRR	05/22/25 07:43	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X521072	JRR	05/22/25 07:43	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X521072	JRR	05/22/25 07:43	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X521072	JRR	05/22/25 07:43	
EPA 200.7	**Iron**	1.37	mg/L	0.100	0.056		X521072	JRR	05/22/25 07:43	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X521072	JRR	05/22/25 07:43	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X521072	JRR	05/22/25 07:43	
EPA 200.7	**Magnesium**	21.6	mg/L	0.500	0.090		X521072	JRR	05/22/25 07:43	
EPA 200.7	**Manganese**	0.252	mg/L	0.0080	0.0034		X521072	JRR	05/22/25 07:43	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X521072	JRR	05/22/25 07:43	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X521072	JRR	05/22/25 07:43	
EPA 200.7	**Potassium**	1.05	mg/L	0.50	0.18		X521072	JRR	05/22/25 07:43	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X521072	JRR	05/22/25 07:43	
EPA 200.7	**Sodium**	10.3	mg/L	0.50	0.12		X521072	JRR	05/22/25 07:43	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X521072	JRR	05/22/25 07:43	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X521072	JRR	05/22/25 07:43	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X521038	NMS	05/21/25 09:10	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X521038	NMS	05/21/25 09:10	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X521038	NMS	05/21/25 09:10	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X521038	NMS	05/21/25 09:10	
EPA 200.8	**Uranium**	0.00468	mg/L	0.000100	0.000052		X521038	NMS	05/21/25 09:10	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X520201	MAC	05/20/25 15:41	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X521008	JPM	05/19/25 13:40	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X521160	JPM	05/21/25 17:42	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X520006	ORW	05/15/25 15:54	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X521009	JPM	05/21/25 15:24	
SM 2310 B	**Acidity to pH 8.3**	-178	mg/L as CaCO3	10.0			X521021	MWD	05/19/25 11:27	
SM 2320 B	**Total Alkalinity**	182	mg/L as CaCO3	1.0			X520165	MWD	05/16/25 14:51	
SM 2320 B	**Bicarbonate**	182	mg/L as CaCO3	1.0			X520165	MWD	05/16/25 14:51	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X520165	MWD	05/16/25 14:51	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X520165	MWD	05/16/25 14:51	
SM 2540 C	**Total Diss. Solids**	275	mg/L	10			X520149	TJL	05/16/25 13:30	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X520150	TJL	05/16/25 12:50	
SM 4500 H B	**pH @19.3°C**	7.6	pH Units				X520165	MWD	05/16/25 14:51	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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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: **X5E0162**
Reported: 23-May-25 14:58

Client Sample ID: **GVMW-107F**
SVL Sample ID: **X5E0162-01 (Ground Water)**

Sampled: 12-May-25 10:55
Received: 13-May-25
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	18.2	mg/L	2.00	0.22	10	X520061	RS	05/13/25 16:48	
EPA 300.0	**Fluoride**	0.804	mg/L	0.100	0.017		X520061	RS	05/13/25 16:32	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X520061	RS	05/13/25 16:32	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X520061	RS	05/13/25 16:48	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X520061	RS	05/13/25 16:32	
EPA 300.0	**Sulfate as SO4**	25.5	mg/L	0.30	0.18		X520061	RS	05/13/25 16:32	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 4.65 meq/L Anion Sum: 4.73 meq/L C/A Balance: -0.78 % Calculated TDS: 234 TDS/cTDS: 1.18

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

Kristi A. Groth

Kristi A. Groth
Project Manager

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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: **X5E0162**
Reported: 23-May-25 14:58

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	X520146	19-May-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X520146	19-May-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X520146	19-May-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X521072	22-May-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X521072	22-May-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X521072	22-May-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X521072	22-May-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X521072	22-May-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X521072	22-May-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X521072	22-May-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X521072	22-May-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X521072	22-May-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X521072	22-May-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X521072	22-May-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X521072	22-May-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X521072	22-May-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X521072	22-May-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X521072	22-May-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X521072	22-May-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X521072	22-May-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X521072	22-May-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X521072	22-May-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X521072	22-May-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X521072	22-May-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X521038	21-May-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X521038	21-May-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X521038	21-May-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X521038	21-May-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X521038	21-May-25	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X520201	20-May-25	
Classical Chemistry Parameters								
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X521008	19-May-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X521160	21-May-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X520006	15-May-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X521009	21-May-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X521021	19-May-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X520165	16-May-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X520165	16-May-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X520165	16-May-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X520165	16-May-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X520149	16-May-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X520150	16-May-25	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X520061	13-May-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X520061	13-May-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X520061	13-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X520061	13-May-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X520061	13-May-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X520061	13-May-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: **X5E0162**
Reported: 23-May-25 14:58

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	19.4	20.0	97	85 - 115	X520146	19-May-25	
EPA 200.7	Magnesium	mg/L	20.2	20.0	101	85 - 115	X520146	19-May-25	
EPA 200.7	Potassium	mg/L	18.9	20.0	94.6	85 - 115	X520146	19-May-25	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.964	1.00	96.4	85 - 115	X521072	22-May-25	
EPA 200.7	Barium	mg/L	1.02	1.00	102	85 - 115	X521072	22-May-25	
EPA 200.7	Beryllium	mg/L	0.990	1.00	99.0	85 - 115	X521072	22-May-25	
EPA 200.7	Boron	mg/L	1.05	1.00	105	85 - 115	X521072	22-May-25	
EPA 200.7	Cadmium	mg/L	0.984	1.00	98.4	85 - 115	X521072	22-May-25	
EPA 200.7	Calcium	mg/L	19.6	20.0	97.9	85 - 115	X521072	22-May-25	
EPA 200.7	Chromium	mg/L	1.00	1.00	100	85 - 115	X521072	22-May-25	
EPA 200.7	Cobalt	mg/L	0.968	1.00	96.8	85 - 115	X521072	22-May-25	
EPA 200.7	Copper	mg/L	0.961	1.00	96.1	85 - 115	X521072	22-May-25	
EPA 200.7	Iron	mg/L	9.99	10.0	99.9	85 - 115	X521072	22-May-25	
EPA 200.7	Lead	mg/L	0.990	1.00	99.0	85 - 115	X521072	22-May-25	
EPA 200.7	Lithium	mg/L	0.947	1.00	94.7	85 - 115	X521072	22-May-25	
EPA 200.7	Magnesium	mg/L	20.0	20.0	100	85 - 115	X521072	22-May-25	
EPA 200.7	Manganese	mg/L	0.997	1.00	99.7	85 - 115	X521072	22-May-25	
EPA 200.7	Molybdenum	mg/L	0.990	1.00	99.0	85 - 115	X521072	22-May-25	
EPA 200.7	Nickel	mg/L	0.974	1.00	97.4	85 - 115	X521072	22-May-25	
EPA 200.7	Potassium	mg/L	19.8	20.0	99.2	85 - 115	X521072	22-May-25	
EPA 200.7	Silver	mg/L	0.0498	0.0500	99.7	85 - 115	X521072	22-May-25	
EPA 200.7	Sodium	mg/L	19.0	19.0	100	85 - 115	X521072	22-May-25	
EPA 200.7	Vanadium	mg/L	1.01	1.00	101	85 - 115	X521072	22-May-25	
EPA 200.7	Zinc	mg/L	1.01	1.00	101	85 - 115	X521072	22-May-25	
EPA 200.8	Antimony	mg/L	0.0217	0.0250	87.0	85 - 115	X521038	21-May-25	
EPA 200.8	Arsenic	mg/L	0.0228	0.0250	91.2	85 - 115	X521038	21-May-25	
EPA 200.8	Selenium	mg/L	0.0225	0.0250	89.9	85 - 115	X521038	21-May-25	
EPA 200.8	Thallium	mg/L	0.0226	0.0250	90.6	85 - 115	X521038	21-May-25	
EPA 200.8	Uranium	mg/L	0.0240	0.0250	96.0	85 - 115	X521038	21-May-25	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00219	0.00200	109	85 - 115	X520201	20-May-25	
Classical Chemistry Parameters									
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.101	0.100	101	90 - 110	X521008	19-May-25	
EPA 335.4	Cyanide (total)	mg/L	0.0963	0.100	96.3	90 - 110	X521160	21-May-25	
EPA 350.1	Ammonia as N	mg/L	1.05	1.00	105	90 - 110	X520006	15-May-25	
OIA 1677	Cyanide (WAD)	mg/L	0.0972	0.100	97.2	90 - 110	X521009	21-May-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1210	1180	102	95.4 - 104	X521021	19-May-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	97.6	99.3	98.3	94 - 106	X520165	16-May-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	398	397	100	94 - 106	X520165	16-May-25	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X520150	16-May-25	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.01	3.00	100	90 - 110	X520061	13-May-25	
EPA 300.0	Fluoride	mg/L	1.98	2.00	98.8	90 - 110	X520061	13-May-25	
EPA 300.0	Nitrate as N	mg/L	1.97	2.00	98.4	90 - 110	X520061	13-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.51	4.50	100	90 - 110	X520061	13-May-25	
EPA 300.0	Nitrite as N	mg/L	2.54	2.50	102	90 - 110	X520061	13-May-25	
EPA 300.0	Sulfate as SO4	mg/L	9.96	10.0	99.6	90 - 110	X520061	13-May-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: **X5E0162**
Reported: 23-May-25 14:58

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	<10.0	<10.0	UDL	20	X521021 - X5E0131-01	19-May-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	180	181	0.8	20	X520165 - X5E0161-02	16-May-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	180	181	0.8	20	X520165 - X5E0161-02	16-May-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X520165 - X5E0161-02	16-May-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X520165 - X5E0161-02	16-May-25	
SM 2540 C	Total Diss. Solids	mg/L	298	306	2.7	10	X520149 - X5E0200-01	16-May-25	
SM 2540 C	Total Diss. Solids	mg/L	374	401	7.0	10	X520149 - X5E0171-01	16-May-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X520150 - X5E0171-01	16-May-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X520150 - X5E0200-01	16-May-25	
SM 4500 H B	pH @19.2°C	pH Units	7.5	7.6	1.2	20	X520165 - X5E0161-02	16-May-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	70.1	49.8	20.0	102	70 - 130	X520146 - X5E0153-01	19-May-25	
EPA 200.7	Calcium	mg/L	26.7	7.09	20.0	98	70 - 130	X520146 - X5E0167-01	19-May-25	
EPA 200.7	Magnesium	mg/L	54.6	33.6	20.0	105	70 - 130	X520146 - X5E0153-01	19-May-25	
EPA 200.7	Magnesium	mg/L	22.7	2.35	20.0	102	70 - 130	X520146 - X5E0167-01	19-May-25	
EPA 200.7	Potassium	mg/L	26.1	7.08	20.0	95.0	70 - 130	X520146 - X5E0153-01	19-May-25	
EPA 200.7	Potassium	mg/L	19.7	0.69	20.0	95.2	70 - 130	X520146 - X5E0167-01	19-May-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.960	<0.080	1.00	96.0	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Aluminum	mg/L	0.978	<0.080	1.00	97.8	70 - 130	X521072 - X5E0200-01	22-May-25	
EPA 200.7	Barium	mg/L	1.03	0.0372	1.00	99.0	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Barium	mg/L	1.07	0.0471	1.00	102	70 - 130	X521072 - X5E0200-01	22-May-25	
EPA 200.7	Beryllium	mg/L	0.988	<0.00200	1.00	98.8	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Beryllium	mg/L	1.01	<0.00200	1.00	101	70 - 130	X521072 - X5E0200-01	22-May-25	
EPA 200.7	Boron	mg/L	1.07	<0.0400	1.00	106	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Boron	mg/L	1.11	0.0411	1.00	107	70 - 130	X521072 - X5E0200-01	22-May-25	
EPA 200.7	Cadmium	mg/L	0.987	<0.0020	1.00	98.7	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Cadmium	mg/L	0.991	<0.0020	1.00	99.1	70 - 130	X521072 - X5E0200-01	22-May-25	
EPA 200.7	Calcium	mg/L	50.1	30.5	20.0	98.1	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Calcium	mg/L	73.8	53.9	20.0	99.8	70 - 130	X521072 - X5E0200-01	22-May-25	
EPA 200.7	Chromium	mg/L	1.00	<0.0060	1.00	100	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Chromium	mg/L	1.01	<0.0060	1.00	101	70 - 130	X521072 - X5E0200-01	22-May-25	
EPA 200.7	Cobalt	mg/L	0.953	<0.0060	1.00	95.3	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Cobalt	mg/L	0.972	<0.0060	1.00	97.2	70 - 130	X521072 - X5E0200-01	22-May-25	
EPA 200.7	Copper	mg/L	0.971	<0.0100	1.00	97.1	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Copper	mg/L	0.992	<0.0100	1.00	98.6	70 - 130	X521072 - X5E0200-01	22-May-25	
EPA 200.7	Iron	mg/L	10.0	<0.100	10.0	99.5	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Iron	mg/L	10.0	<0.100	10.0	100	70 - 130	X521072 - X5E0200-01	22-May-25	
EPA 200.7	Lead	mg/L	0.980	<0.0075	1.00	98.0	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Lead	mg/L	0.999	<0.0075	1.00	99.9	70 - 130	X521072 - X5E0200-01	22-May-25	
EPA 200.7	Lithium	mg/L	0.979	<0.040	1.00	97.9	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Lithium	mg/L	1.04	<0.040	1.00	101	70 - 130	X521072 - X5E0200-01	22-May-25	
EPA 200.7	Magnesium	mg/L	31.7	11.4	20.0	102	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Magnesium	mg/L	28.8	8.34	20.0	103	70 - 130	X521072 - X5E0200-01	22-May-25	

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Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X5E0162**
Reported: 23-May-25 14:58

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	1.00	<0.0080	1.00	99.7	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Manganese	mg/L	1.00	<0.0080	1.00	100	70 - 130	X521072 - X5E0200-01	22-May-25	
EPA 200.7	Molybdenum	mg/L	0.989	<0.0080	1.00	98.9	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Molybdenum	mg/L	1.04	0.0339	1.00	101	70 - 130	X521072 - X5E0200-01	22-May-25	
EPA 200.7	Nickel	mg/L	0.955	<0.0100	1.00	95.5	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Nickel	mg/L	0.974	<0.0100	1.00	97.4	70 - 130	X521072 - X5E0200-01	22-May-25	
EPA 200.7	Potassium	mg/L	20.7	0.86	20.0	99.0	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Potassium	mg/L	23.3	3.54	20.0	98.9	70 - 130	X521072 - X5E0200-01	22-May-25	
EPA 200.7	Silver	mg/L	0.0498	<0.0050	0.0500	99.7	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Silver	mg/L	0.0509	<0.0050	0.0500	102	70 - 130	X521072 - X5E0200-01	22-May-25	
EPA 200.7	Sodium	mg/L	29.3	10.5	19.0	98.8	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Sodium	mg/L	48.7	29.8	19.0	99.3	70 - 130	X521072 - X5E0200-01	22-May-25	
EPA 200.7	Vanadium	mg/L	1.01	<0.0050	1.00	101	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Vanadium	mg/L	1.03	<0.0050	1.00	102	70 - 130	X521072 - X5E0200-01	22-May-25	
EPA 200.7	Zinc	mg/L	1.02	0.0163	1.00	101	70 - 130	X521072 - X5E0161-01	22-May-25	
EPA 200.7	Zinc	mg/L	1.03	<0.0100	1.00	103	70 - 130	X521072 - X5E0200-01	22-May-25	
EPA 200.8	Antimony	mg/L	0.0225	<0.00100	0.0250	89.9	70 - 130	X521038 - X5E0161-01	21-May-25	
EPA 200.8	Antimony	mg/L	0.0231	<0.00100	0.0250	92.6	70 - 130	X521038 - X5E0240-01	21-May-25	
EPA 200.8	Arsenic	mg/L	0.0230	<0.00100	0.0250	92.2	70 - 130	X521038 - X5E0161-01	21-May-25	
EPA 200.8	Arsenic	mg/L	0.0246	<0.00100	0.0250	98.5	70 - 130	X521038 - X5E0240-01	21-May-25	
EPA 200.8	Selenium	mg/L	0.0247	<0.00100	0.0250	98.8	70 - 130	X521038 - X5E0161-01	21-May-25	
EPA 200.8	Selenium	mg/L	0.0243	<0.00100	0.0250	97.3	70 - 130	X521038 - X5E0240-01	21-May-25	
EPA 200.8	Thallium	mg/L	0.0219	<0.000200	0.0250	87.7	70 - 130	X521038 - X5E0161-01	21-May-25	
EPA 200.8	Thallium	mg/L	0.0246	<0.000200	0.0250	98.5	70 - 130	X521038 - X5E0240-01	21-May-25	
EPA 200.8	Uranium	mg/L	0.0248	0.000363	0.0250	97.9	70 - 130	X521038 - X5E0161-01	21-May-25	
EPA 200.8	Uranium	mg/L	0.0260	0.000133	0.0250	104	70 - 130	X521038 - X5E0240-01	21-May-25	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00214	<0.000200	0.00200	107	70 - 130	X520201 - X5E0161-01	20-May-25	
EPA 245.1	Mercury	mg/L	0.00207	<0.000200	0.00200	103	70 - 130	X520201 - X5E0250-01	20-May-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.103	<0.0050	0.100	103	79 - 121	X521008 - X5E0056-02	19-May-25	
EPA 335.4	Cyanide (total)	mg/L	0.0951	<0.0050	0.100	95.1	90 - 110	X521160 - X5E0162-01	21-May-25	
EPA 350.1	Ammonia as N	mg/L	1.97	1.17	1.00	80.0	90 - 110	X520006 - X5E0127-02	15-May-25	M2
EPA 350.1	Ammonia as N	mg/L	1.05	<0.030	1.00	105	90 - 110	X520006 - X5E0171-01	15-May-25	
OIA 1677	Cyanide (WAD)	mg/L	0.102	<0.0050	0.100	102	82 - 118	X521009 - X5E0161-01	21-May-25	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	7.17	4.04	3.00	104	90 - 110	X520061 - X5E0145-06	13-May-25	
EPA 300.0	Chloride	mg/L	3.04	<0.20	3.00	101	90 - 110	X520061 - X5E0145-11	13-May-25	
EPA 300.0	Fluoride	mg/L	1.99	<0.100	2.00	96.2	90 - 110	X520061 - X5E0145-06	13-May-25	
EPA 300.0	Fluoride	mg/L	1.98	<0.100	2.00	99.1	90 - 110	X520061 - X5E0145-11	13-May-25	
EPA 300.0	Nitrate as N	mg/L	3.71	1.64	2.00	104	90 - 110	X520061 - X5E0145-06	13-May-25	
EPA 300.0	Nitrate as N	mg/L	1.98	<0.050	2.00	98.8	90 - 110	X520061 - X5E0145-11	13-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	5.71	1.64	4.00	102	90 - 110	X520061 - X5E0145-06	13-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.98	<0.100	4.00	99.5	90 - 110	X520061 - X5E0145-11	13-May-25	
EPA 300.0	Nitrite as N	mg/L	2.00	<0.050	2.00	100	90 - 110	X520061 - X5E0145-06	13-May-25	
EPA 300.0	Nitrite as N	mg/L	2.00	<0.050	2.00	100	90 - 110	X520061 - X5E0145-11	13-May-25	
EPA 300.0	Sulfate as SO4	mg/L	25.3	15.2	10.0	101	90 - 110	X520061 - X5E0145-06	13-May-25	
EPA 300.0	Sulfate as SO4	mg/L	10.1	<0.30	10.0	101	90 - 110	X520061 - X5E0145-11	13-May-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: **X5E0162**
Reported: 23-May-25 14:58

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	69.8	70.1	20.0	0.4	20	100	X520146 - X5E0153-01	
EPA 200.7	Magnesium	mg/L	54.1	54.6	20.0	0.9	20	103	X520146 - X5E0153-01	
EPA 200.7	Potassium	mg/L	26.0	26.1	20.0	0.4	20	94.4	X520146 - X5E0153-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.967	0.960	1.00	0.8	20	96.7	X521072 - X5E0161-01	
EPA 200.7	Barium	mg/L	1.04	1.03	1.00	1.7	20	101	X521072 - X5E0161-01	
EPA 200.7	Beryllium	mg/L	0.990	0.988	1.00	0.3	20	99.0	X521072 - X5E0161-01	
EPA 200.7	Boron	mg/L	1.08	1.07	1.00	0.9	20	107	X521072 - X5E0161-01	
EPA 200.7	Cadmium	mg/L	0.983	0.987	1.00	0.3	20	98.3	X521072 - X5E0161-01	
EPA 200.7	Calcium	mg/L	50.1	50.1	20.0	0.0	20	98.1	X521072 - X5E0161-01	
EPA 200.7	Chromium	mg/L	1.01	1.00	1.00	0.2	20	101	X521072 - X5E0161-01	
EPA 200.7	Cobalt	mg/L	0.957	0.953	1.00	0.5	20	95.7	X521072 - X5E0161-01	
EPA 200.7	Copper	mg/L	0.974	0.971	1.00	0.2	20	97.4	X521072 - X5E0161-01	
EPA 200.7	Iron	mg/L	10.0	10.0	10.0	0.2	20	99.7	X521072 - X5E0161-01	
EPA 200.7	Lead	mg/L	0.989	0.980	1.00	0.9	20	98.9	X521072 - X5E0161-01	
EPA 200.7	Lithium	mg/L	0.984	0.979	1.00	0.5	20	98.4	X521072 - X5E0161-01	
EPA 200.7	Magnesium	mg/L	31.7	31.7	20.0	0.0	20	102	X521072 - X5E0161-01	
EPA 200.7	Manganese	mg/L	1.00	1.00	1.00	0.1	20	99.6	X521072 - X5E0161-01	
EPA 200.7	Molybdenum	mg/L	0.993	0.989	1.00	0.5	20	99.3	X521072 - X5E0161-01	
EPA 200.7	Nickel	mg/L	0.961	0.955	1.00	0.7	20	96.1	X521072 - X5E0161-01	
EPA 200.7	Potassium	mg/L	20.6	20.7	20.0	0.1	20	98.8	X521072 - X5E0161-01	
EPA 200.7	Silver	mg/L	0.0500	0.0498	0.0500	0.3	20	99.9	X521072 - X5E0161-01	
EPA 200.7	Sodium	mg/L	29.3	29.3	19.0	0.1	20	98.9	X521072 - X5E0161-01	
EPA 200.7	Vanadium	mg/L	1.01	1.01	1.00	0.3	20	101	X521072 - X5E0161-01	
EPA 200.7	Zinc	mg/L	1.03	1.02	1.00	0.4	20	101	X521072 - X5E0161-01	
EPA 200.8	Antimony	mg/L	0.0233	0.0225	0.0250	3.6	20	93.2	X521038 - X5E0161-01	
EPA 200.8	Arsenic	mg/L	0.0237	0.0230	0.0250	2.7	20	94.7	X521038 - X5E0161-01	
EPA 200.8	Selenium	mg/L	0.0255	0.0247	0.0250	3.2	20	102	X521038 - X5E0161-01	
EPA 200.8	Thallium	mg/L	0.0229	0.0219	0.0250	4.2	20	91.5	X521038 - X5E0161-01	
EPA 200.8	Uranium	mg/L	0.0256	0.0248	0.0250	3.1	20	101	X521038 - X5E0161-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00221	0.00214	0.00200	3.1	20	110	X520201 - X5E0161-01	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.107	0.103	0.100	3.7	11	107	X521008 - X5E0056-02	
EPA 335.4	Cyanide (total)	mg/L	0.0966	0.0951	0.100	1.6	20	96.6	X521160 - X5E0162-01	
EPA 350.1	Ammonia as N	mg/L	1.98	1.97	1.00	0.3	20	80.5	X520006 - X5E0127-02	M2
OIA 1677	Cyanide (WAD)	mg/L	0.0997	0.102	0.100	1.8	11	99.7	X521009 - X5E0161-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	7.07	7.17	3.00	1.3	20	101	X520061 - X5E0145-06	
EPA 300.0	Fluoride	mg/L	2.01	1.99	2.00	0.8	20	97.0	X520061 - X5E0145-06	
EPA 300.0	Nitrate as N	mg/L	3.68	3.71	2.00	1.0	20	102	X520061 - X5E0145-06	
EPA 300.0	Nitrate+Nitrite as N	mg/L	5.66	5.71	4.00	0.9	20	101	X520061 - X5E0145-06	
EPA 300.0	Nitrite as N	mg/L	1.99	2.00	2.00	0.7	20	99.4	X520061 - X5E0145-06	
EPA 300.0	Sulfate as SO4	mg/L	25.3	25.3	10.0	0.0	20	101	X520061 - X5E0145-06	

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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: **X5E0162**
Cripple Creek, CO 80813	Reported: 23-May-25 14:58

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.
M2	Matrix spike recovery was low, but 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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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: **X5E0240**
Reported: 28-May-25 15:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-4A	X5E0240-01	Ground Water	15-May-25 09:20	JC	16-May-2025	
GVMW-15B	X5E0240-02	Ground Water	15-May-25 10:15	JC	16-May-2025	
GVMW-15A	X5E0240-03	Ground Water	15-May-25 11:25	JC	16-May-2025	
GVMW-35B	X5E0240-04	Ground Water	15-May-25 13:15	JC	16-May-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.

Case Narrative: X5E0240

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: **X5E0240**
Reported: 28-May-25 15:54

Client Sample ID: **GVMW-4A**
SVL Sample ID: **X5E0240-01 (Ground Water)**

Sampled: 15-May-25 09:20
Received: 16-May-25
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	19.9	mg/L	0.100	0.069		X521147	SJN	05/22/25 12:25	
EPA 200.7	**Magnesium**	11.8	mg/L	0.500	0.090		X521147	SJN	05/22/25 12:25	
EPA 200.7	**Potassium**	1.47	mg/L	0.50	0.18		X521147	SJN	05/22/25 12:25	
SM 2340 B	**Hardness (as CaCO3)**	89.2	mg/L	2.31	0.543		N/A		05/22/25 12:25	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X521099	JRR	05/22/25 07:22	
EPA 200.7	**Barium**	0.167	mg/L	0.0020	0.0019		X521099	JRR	05/22/25 07:22	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X521099	JRR	05/22/25 07:22	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X521099	SJN	05/22/25 11:52	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X521099	JRR	05/22/25 07:22	
EPA 200.7	**Calcium**	18.6	mg/L	0.100	0.069		X521099	JRR	05/22/25 07:22	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X521099	JRR	05/22/25 07:22	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X521099	JRR	05/22/25 07:22	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X521099	JRR	05/22/25 07:22	
EPA 200.7	**Iron**	7.67	mg/L	0.100	0.056		X521099	JRR	05/22/25 07:22	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X521099	JRR	05/22/25 07:22	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X521099	JRR	05/22/25 07:22	
EPA 200.7	**Magnesium**	10.4	mg/L	0.500	0.090		X521099	JRR	05/22/25 07:22	
EPA 200.7	**Manganese**	1.96	mg/L	0.0080	0.0034		X521099	JRR	05/22/25 07:22	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X521099	JRR	05/22/25 07:22	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X521099	JRR	05/22/25 07:22	
EPA 200.7	**Potassium**	1.24	mg/L	0.50	0.18		X521099	JRR	05/22/25 07:22	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X521099	JRR	05/22/25 07:22	
EPA 200.7	**Sodium**	9.44	mg/L	0.50	0.12		X521099	JRR	05/22/25 07:22	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X521099	JRR	05/22/25 07:22	
EPA 200.7	**Zinc**	0.0231	mg/L	0.0100	0.0054		X521099	JRR	05/22/25 07:22	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X521038	NMS	05/21/25 09:52	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X521038	NMS	05/21/25 09:52	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X521038	NMS	05/21/25 09:52	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X521038	NMS	05/21/25 11:09	
EPA 200.8	**Uranium**	0.000133	mg/L	0.000100	0.000052		X521038	NMS	05/21/25 11:09	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X521025	MAC	05/20/25 13:48	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X521008	JPM	05/19/25 14:02	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X521058	JPM	05/21/25 13:00	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X521188	ORW	05/27/25 09:36	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X521009	JPM	05/21/25 15:45	
SM 2310 B	**Acidity to pH 8.3**	-53.4	mg/L as CaCO3	10.0			X522009	MWD	05/27/25 08:58	
SM 2320 B	**Total Alkalinity**	55.3	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 13:23	
SM 2320 B	**Bicarbonate**	55.3	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 13:23	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 13:23	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 13:23	
SM 2540 C	**Total Diss. Solids**	192	mg/L	10			X521049	TJL	05/21/25 14:35	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X521050	TJL	05/23/25 15:30	
SM 4500 H B	**pH @19.5°C**	6.8	pH Units				X521076	MWD	05/21/25 13:23	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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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: **X5E0240**
Reported: 28-May-25 15:54

Client Sample ID: **GVMW-4A**
SVL Sample ID: **X5E0240-01 (Ground Water)**

Sampled: 15-May-25 09:20
Received: 16-May-25
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	5.08	mg/L	0.20	0.02		X520184	RS	05/16/25 13:38	
EPA 300.0	**Fluoride**	0.127	mg/L	0.100	0.017		X520184	RS	05/16/25 13:38	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X520184	RS	05/16/25 13:38	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X520184	RS	05/16/25 13:38	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X520184	RS	05/16/25 13:38	
EPA 300.0	**Sulfate as SO4**	67.5	mg/L	3.00	1.80	10	X520184	RS	05/16/25 13:53	M4

Cation/Anion Balance and TDS Ratios

Cation Sum: 2.59 meq/L Anion Sum: 2.66 meq/L C/A Balance: -1.47 % Calculated TDS: 147 TDS/cTDS: 1.31

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
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Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X5E0240**
Reported: 28-May-25 15:54

Client Sample ID: **GVMW-15B**
SVL Sample ID: **X5E0240-02 (Ground Water)**

Sampled: 15-May-25 10:15
Received: 16-May-25
Sampled By: JC

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**	42.0	mg/L	0.100	0.069		X521147	SJN	05/22/25 12:30	
EPA 200.7	**Magnesium**	23.7	mg/L	0.500	0.090		X521147	SJN	05/22/25 12:30	
EPA 200.7	**Potassium**	2.41	mg/L	0.50	0.18		X521147	SJN	05/22/25 12:30	
SM 2340 B	**Hardness (as CaCO3)**	183	mg/L	2.31	0.543		N/A		05/22/25 12:30	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	0.369	mg/L	0.080	0.054		X521099	JRR	05/22/25 07:25	
EPA 200.7	**Barium**	0.0128	mg/L	0.0020	0.0019		X521099	JRR	05/22/25 07:25	
EPA 200.7	**Beryllium**	0.0292	mg/L	0.00200	0.00080		X521099	JRR	05/22/25 07:25	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X521099	SJN	05/22/25 11:56	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X521099	JRR	05/22/25 07:25	
EPA 200.7	**Calcium**	38.9	mg/L	0.100	0.069		X521099	JRR	05/22/25 07:25	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X521099	JRR	05/22/25 07:25	
EPA 200.7	**Cobalt**	0.0622	mg/L	0.0060	0.0046		X521099	JRR	05/22/25 07:25	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X521099	JRR	05/22/25 07:25	
EPA 200.7	**Iron**	20.5	mg/L	0.100	0.056		X521099	JRR	05/22/25 07:25	
EPA 200.7	**Lead**	0.0630	mg/L	0.0075	0.0049		X521099	JRR	05/22/25 07:25	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X521099	JRR	05/22/25 07:25	
EPA 200.7	**Magnesium**	20.9	mg/L	0.500	0.090		X521099	JRR	05/22/25 07:25	
EPA 200.7	**Manganese**	1.30	mg/L	0.0080	0.0034		X521099	JRR	05/22/25 07:25	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X521099	JRR	05/22/25 07:25	
EPA 200.7	**Nickel**	0.112	mg/L	0.0100	0.0048		X521099	JRR	05/22/25 07:25	
EPA 200.7	**Potassium**	2.02	mg/L	0.50	0.18		X521099	JRR	05/22/25 07:25	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X521099	JRR	05/22/25 07:25	
EPA 200.7	**Sodium**	13.1	mg/L	0.50	0.12		X521099	JRR	05/22/25 07:25	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X521099	JRR	05/22/25 07:25	
EPA 200.7	**Zinc**	1.23	mg/L	0.0100	0.0054		X521099	JRR	05/22/25 07:25	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X521038	NMS	05/21/25 10:08	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X521038	NMS	05/21/25 10:08	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X521038	NMS	05/21/25 10:08	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X521038	NMS	05/21/25 11:12	
EPA 200.8	**Uranium**	0.00364	mg/L	0.000100	0.000052		X521038	NMS	05/21/25 11:12	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X521025	MAC	05/20/25 13:54	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X521008	JPM	05/19/25 14:04	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X521058	JPM	05/21/25 13:02	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X521188	ORW	05/27/25 09:38	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X521009	JPM	05/21/25 15:48	
SM 2310 B	**Acidity to pH 8.3**	42.3	mg/L as CaCO3	10.0			X522009	MWD	05/27/25 08:58	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 13:28	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 13:28	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 13:28	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 13:28	
SM 2540 C	**Total Diss. Solids**	424	mg/L	10			X521049	TJL	05/21/25 14:35	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X521050	TJL	05/23/25 15:30	
SM 4500 H B	**pH @19.6°C**	4.3	pH Units				X521076	MWD	05/21/25 13:28	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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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: **X5E0240**
Reported: 28-May-25 15:54

Client Sample ID: **GVMW-15B**
SVL Sample ID: **X5E0240-02 (Ground Water)**

Sampled: 15-May-25 10:15
Received: 16-May-25
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	1.39	mg/L	0.20	0.02		X520184	RS	05/16/25 15:11	
EPA 300.0	**Fluoride**	0.348	mg/L	0.100	0.017		X520184	RS	05/16/25 15:11	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X520184	RS	05/16/25 15:11	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X520184	RS	05/16/25 15:11	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X520184	RS	05/16/25 15:11	
EPA 300.0	**Sulfate as SO4**	264	mg/L	3.00	1.80	10	X520184	RS	05/16/25 15:26	

Cation/Anion Balance and TDS Ratios

Cation Sum: 5.15 meq/L Anion Sum: 5.58 meq/L C/A Balance: -4.00 % Calculated TDS: 344 TDS/cTDS: 1.23

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: **X5E0240**
Reported: 28-May-25 15:54

Client Sample ID: **GVMW-15A**
SVL Sample ID: **X5E0240-03 (Ground Water)**

Sampled: 15-May-25 11:25
Received: 16-May-25
Sampled By: JC

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**	21.6	mg/L	0.100	0.069		X521147	SJN	05/22/25 12:31	
EPA 200.7	**Magnesium**	19.5	mg/L	0.500	0.090		X521147	SJN	05/22/25 12:31	
EPA 200.7	**Potassium**	2.07	mg/L	0.50	0.18		X521147	SJN	05/22/25 12:31	
SM 2340 B	**Hardness (as CaCO3)**	134	mg/L	2.31	0.543		N/A		05/22/25 07:39	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X521099	JRR	05/22/25 07:39	
EPA 200.7	**Barium**	0.0519	mg/L	0.0020	0.0019		X521099	JRR	05/22/25 07:39	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X521099	JRR	05/22/25 07:39	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X521099	SJN	05/22/25 12:34	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X521099	JRR	05/22/25 07:39	
EPA 200.7	**Calcium**	19.8	mg/L	0.100	0.069		X521099	JRR	05/22/25 07:39	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X521099	JRR	05/22/25 07:39	
EPA 200.7	**Cobalt**	0.0310	mg/L	0.0060	0.0046		X521099	JRR	05/22/25 07:39	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X521099	JRR	05/22/25 07:39	
EPA 200.7	**Iron**	31.6	mg/L	0.100	0.056		X521099	JRR	05/22/25 07:39	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X521099	JRR	05/22/25 07:39	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X521099	JRR	05/22/25 07:39	
EPA 200.7	**Magnesium**	17.1	mg/L	0.500	0.090		X521099	JRR	05/22/25 07:39	
EPA 200.7	**Manganese**	1.92	mg/L	0.0080	0.0034		X521099	JRR	05/22/25 07:39	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X521099	JRR	05/22/25 07:39	
EPA 200.7	**Nickel**	0.0608	mg/L	0.0100	0.0048		X521099	JRR	05/22/25 07:39	
EPA 200.7	**Potassium**	1.78	mg/L	0.50	0.18		X521099	JRR	05/22/25 07:39	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X521099	JRR	05/22/25 07:39	
EPA 200.7	**Sodium**	13.5	mg/L	0.50	0.12		X521099	JRR	05/22/25 07:39	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X521099	JRR	05/22/25 07:39	
EPA 200.7	**Zinc**	0.259	mg/L	0.0100	0.0054		X521099	JRR	05/22/25 07:39	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X521038	NMS	05/21/25 10:12	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X521038	NMS	05/21/25 10:12	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X521038	NMS	05/21/25 10:12	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X521038	NMS	05/21/25 11:13	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X521038	NMS	05/21/25 11:13	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X521025	MAC	05/20/25 13:56	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X521008	JPM	05/19/25 14:08	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X521058	JPM	05/21/25 13:12	
EPA 350.1	**Ammonia as N**	0.037	mg/L	0.030	0.013		X521188	ORW	05/27/25 09:41	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X521009	JPM	05/21/25 16:06	
SM 2310 B	**Acidity to pH 8.3**	42.3	mg/L as CaCO3	10.0			X522009	MWD	05/27/25 08:58	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 13:41	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 13:41	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 13:41	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 13:41	
SM 2540 C	**Total Diss. Solids**	292	mg/L	10			X521049	TJL	05/21/25 14:35	
SM 2540 D	**Total Susp. Solids**	39.0	mg/L	5.0			X521050	TJL	05/23/25 15:30	
SM 4500 H B	**pH @19.8°C**	4.5	pH Units				X521076	MWD	05/21/25 13:41	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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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: **X5E0240**
Reported: 28-May-25 15:54

Client Sample ID: **GVMW-15A**
SVL Sample ID: **X5E0240-03 (Ground Water)**

Sampled: 15-May-25 11:25
Received: 16-May-25
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	1.57	mg/L	0.20	0.02		X520184	RS	05/16/25 16:13	
EPA 300.0	**Fluoride**	0.274	mg/L	0.100	0.017		X520184	RS	05/16/25 16:13	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X520184	RS	05/16/25 16:13	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X520184	RS	05/16/25 16:13	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X520184	RS	05/16/25 16:13	
EPA 300.0	**Sulfate as SO4**	185	mg/L	3.00	1.80	10	X520184	RS	05/16/25 16:29	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.87 meq/L Anion Sum: 3.93 meq/L C/A Balance: -0.76 % Calculated TDS: 241 TDS/cTDS: 1.21

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: **X5E0240**
Reported: 28-May-25 15:54

Client Sample ID: **GVMW-35B**
SVL Sample ID: **X5E0240-04 (Ground Water)**

Sampled: 15-May-25 13:15
Received: 16-May-25
Sampled By: JC

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**	445	mg/L	0.100	0.069		X521147	SJN	05/22/25 12:33	
EPA 200.7	**Magnesium**	125	mg/L	0.500	0.090		X521147	SJN	05/22/25 12:33	
EPA 200.7	**Potassium**	5.94	mg/L	0.50	0.18		X521147	SJN	05/22/25 12:33	
SM 2340 B	**Hardness (as CaCO3)**	1590	mg/L	2.31	0.543		N/A		05/22/25 12:33	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X521099	JRR	05/22/25 07:42	
EPA 200.7	**Barium**	0.0139	mg/L	0.0020	0.0019		X521099	JRR	05/22/25 07:42	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X521099	JRR	05/22/25 07:42	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X521099	SJN	05/22/25 12:38	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X521099	JRR	05/22/25 07:42	
EPA 200.7	**Calcium**	402	mg/L	0.100	0.069		X521099	JRR	05/22/25 07:42	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X521099	JRR	05/22/25 07:42	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X521099	JRR	05/22/25 07:42	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X521099	JRR	05/22/25 07:42	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X521099	JRR	05/22/25 07:42	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X521099	JRR	05/22/25 07:42	
EPA 200.7	**Lithium**	0.093	mg/L	0.040	0.025		X521099	JRR	05/22/25 07:42	
EPA 200.7	**Magnesium**	115	mg/L	0.500	0.090		X521099	JRR	05/22/25 07:42	
EPA 200.7	**Manganese**	0.146	mg/L	0.0080	0.0034		X521099	JRR	05/22/25 07:42	
EPA 200.7	**Molybdenum**	0.0087	mg/L	0.0080	0.0034		X521099	JRR	05/22/25 07:42	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X521099	JRR	05/22/25 07:42	
EPA 200.7	**Potassium**	5.21	mg/L	0.50	0.18		X521099	JRR	05/22/25 07:42	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X521099	JRR	05/22/25 07:42	
EPA 200.7	**Sodium**	15.9	mg/L	0.50	0.12		X521099	JRR	05/22/25 07:42	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X521099	JRR	05/22/25 07:42	
EPA 200.7	**Zinc**	0.0113	mg/L	0.0100	0.0054		X521099	JRR	05/22/25 07:42	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X521038	NMS	05/21/25 10:18	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X521038	NMS	05/21/25 10:18	
EPA 200.8	**Selenium**	0.00492	mg/L	0.00100	0.00024		X521038	NMS	05/21/25 10:18	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X521038	NMS	05/21/25 11:15	
EPA 200.8	**Uranium**	0.00569	mg/L	0.000100	0.000052		X521038	NMS	05/21/25 11:15	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X521025	MAC	05/20/25 13:59	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X521008	JPM	05/19/25 14:10	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X521058	JPM	05/21/25 13:14	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X521188	ORW	05/27/25 09:43	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X521009	JPM	05/21/25 16:08	
SM 2310 B	**Acidity to pH 8.3**	-53.4	mg/L as CaCO3	10.0			X522009	MWD	05/27/25 08:58	
SM 2320 B	**Total Alkalinity**	55.3	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 13:45	
SM 2320 B	**Bicarbonate**	55.3	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 13:45	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 13:45	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 13:45	
SM 2540 C	**Total Diss. Solids**	2060	mg/L	40			X521049	TJL	05/21/25 14:35	
SM 2540 D	**Total Susp. Solids**	15.0	mg/L	5.0			X521050	TJL	05/23/25 15:30	
SM 4500 H B	**pH @19.7°C**	8.1	pH Units				X521076	MWD	05/21/25 13:45	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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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: **X5E0240**
Reported: 28-May-25 15:54

Client Sample ID: **GVMW-35B**
SVL Sample ID: **X5E0240-04 (Ground Water)**

Sampled: 15-May-25 13:15
Received: 16-May-25
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	86.7	mg/L	10.0	1.10	50	X520184	RS	05/16/25 17:00	
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.017		X520184	RS	05/16/25 16:44	
EPA 300.0	**Nitrate as N**	13.0	mg/L	2.50	0.650	50	X520184	RS	05/16/25 17:00	
EPA 300.0	**Nitrate+Nitrite as N**	13.1	mg/L	0.100	0.044		X520184	RS	05/16/25 16:44	
EPA 300.0	**Nitrite as N**	0.100	mg/L	0.050	0.031		X520184	RS	05/16/25 16:44	
EPA 300.0	**Sulfate as SO4**	1330	mg/L	15.0	9.00	50	X520184	RS	05/16/25 17:00	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 30.4 meq/L Anion Sum: 32.2 meq/L C/A Balance: -2.88 % Calculated TDS: 2073 TDS/cTDS: 0.99

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: **X5E0240**
Reported: 28-May-25 15:54

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	X521147	22-May-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X521147	22-May-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X521147	22-May-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X521099	22-May-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X521099	22-May-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X521099	22-May-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X521099	22-May-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X521099	22-May-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X521099	22-May-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X521099	22-May-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X521099	22-May-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X521099	22-May-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X521099	22-May-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X521099	22-May-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X521099	22-May-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X521099	22-May-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X521099	22-May-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X521099	22-May-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X521099	22-May-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X521099	22-May-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X521099	22-May-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X521099	22-May-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X521099	22-May-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X521099	22-May-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X521038	21-May-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X521038	21-May-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X521038	21-May-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X521038	21-May-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X521038	21-May-25	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X521025	20-May-25	
Classical Chemistry Parameters								
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X521008	19-May-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X521058	21-May-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X521188	27-May-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X521009	21-May-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X522009	27-May-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X521076	21-May-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X521076	21-May-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X521076	21-May-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X521076	21-May-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X521049	21-May-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X521050	23-May-25	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X520184	16-May-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X520184	16-May-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X520184	16-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X520184	16-May-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X520184	16-May-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X520184	16-May-25	

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Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X5E0240**
Reported: 28-May-25 15:54

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	19.9	20.0	99	85 - 115	X521147	22-May-25	
EPA 200.7	Magnesium	mg/L	20.2	20.0	101	85 - 115	X521147	22-May-25	
EPA 200.7	Potassium	mg/L	19.6	20.0	98.2	85 - 115	X521147	22-May-25	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.938	1.00	93.8	85 - 115	X521099	22-May-25	
EPA 200.7	Barium	mg/L	0.965	1.00	96.5	85 - 115	X521099	22-May-25	
EPA 200.7	Beryllium	mg/L	0.955	1.00	95.5	85 - 115	X521099	22-May-25	
EPA 200.7	Boron	mg/L	0.995	1.00	99.5	85 - 115	X521099	22-May-25	
EPA 200.7	Cadmium	mg/L	0.948	1.00	94.8	85 - 115	X521099	22-May-25	
EPA 200.7	Calcium	mg/L	18.6	20.0	93.1	85 - 115	X521099	22-May-25	
EPA 200.7	Chromium	mg/L	0.962	1.00	96.2	85 - 115	X521099	22-May-25	
EPA 200.7	Cobalt	mg/L	0.925	1.00	92.5	85 - 115	X521099	22-May-25	
EPA 200.7	Copper	mg/L	0.942	1.00	94.2	85 - 115	X521099	22-May-25	
EPA 200.7	Iron	mg/L	9.30	10.0	93.0	85 - 115	X521099	22-May-25	
EPA 200.7	Lead	mg/L	0.948	1.00	94.8	85 - 115	X521099	22-May-25	
EPA 200.7	Lithium	mg/L	0.914	1.00	91.4	85 - 115	X521099	22-May-25	
EPA 200.7	Magnesium	mg/L	18.4	20.0	91.9	85 - 115	X521099	22-May-25	
EPA 200.7	Manganese	mg/L	0.968	1.00	96.8	85 - 115	X521099	22-May-25	
EPA 200.7	Molybdenum	mg/L	0.943	1.00	94.3	85 - 115	X521099	22-May-25	
EPA 200.7	Nickel	mg/L	0.939	1.00	93.9	85 - 115	X521099	22-May-25	
EPA 200.7	Potassium	mg/L	18.7	20.0	93.6	85 - 115	X521099	22-May-25	
EPA 200.7	Silver	mg/L	0.0470	0.0500	94.0	85 - 115	X521099	22-May-25	
EPA 200.7	Sodium	mg/L	17.9	19.0	94.0	85 - 115	X521099	22-May-25	
EPA 200.7	Vanadium	mg/L	0.964	1.00	96.4	85 - 115	X521099	22-May-25	
EPA 200.7	Zinc	mg/L	0.924	1.00	92.4	85 - 115	X521099	22-May-25	
EPA 200.8	Antimony	mg/L	0.0217	0.0250	87.0	85 - 115	X521038	21-May-25	
EPA 200.8	Arsenic	mg/L	0.0228	0.0250	91.2	85 - 115	X521038	21-May-25	
EPA 200.8	Selenium	mg/L	0.0225	0.0250	89.9	85 - 115	X521038	21-May-25	
EPA 200.8	Thallium	mg/L	0.0226	0.0250	90.6	85 - 115	X521038	21-May-25	
EPA 200.8	Uranium	mg/L	0.0240	0.0250	96.0	85 - 115	X521038	21-May-25	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00207	0.00200	103	85 - 115	X521025	20-May-25	
Classical Chemistry Parameters									
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.101	0.100	101	90 - 110	X521008	19-May-25	
EPA 335.4	Cyanide (total)	mg/L	0.102	0.100	102	90 - 110	X521058	21-May-25	
EPA 350.1	Ammonia as N	mg/L	1.03	1.00	103	90 - 110	X521188	27-May-25	
OIA 1677	Cyanide (WAD)	mg/L	0.0972	0.100	97.2	90 - 110	X521009	21-May-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1190	1180	101	95.4 - 104	X522009	27-May-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.0	9.93	101	94 - 106	X521076	21-May-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	99.5	99.3	100	94 - 106	X521076	21-May-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	416	397	105	94 - 106	X521076	21-May-25	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X521050	23-May-25	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.96	3.00	98.6	90 - 110	X520184	16-May-25	
EPA 300.0	Fluoride	mg/L	1.98	2.00	99.2	90 - 110	X520184	16-May-25	
EPA 300.0	Nitrate as N	mg/L	1.95	2.00	97.7	90 - 110	X520184	16-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.50	4.50	100	90 - 110	X520184	16-May-25	
EPA 300.0	Nitrite as N	mg/L	2.55	2.50	102	90 - 110	X520184	16-May-25	
EPA 300.0	Sulfate as SO4	mg/L	9.75	10.0	97.5	90 - 110	X520184	16-May-25	

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Ironclad Security 1632 County Rd 82
Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X5E0240**
Reported: 28-May-25 15:54

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0	<10.0	UDL	20	X522009 - X5E0240-01	27-May-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	55.4	55.3	0.2	20	X521076 - X5E0240-01	21-May-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	55.4	55.3	0.2	20	X521076 - X5E0240-01	21-May-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X521076 - X5E0240-01	21-May-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X521076 - X5E0240-01	21-May-25	
SM 2540 C	Total Diss. Solids	mg/L	416	424	1.9	10	X521049 - X5E0240-02	21-May-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X521050 - X5E0240-02	23-May-25	
SM 4500 H B	pH @19.5°C	pH Units	6.8	6.8	0.9	20	X521076 - X5E0240-01	21-May-25	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	40.0	19.9	20.0	100	70 - 130	X521147 - X5E0240-01	22-May-25	
EPA 200.7	Calcium	mg/L	77.3	56.4	20.0	104	70 - 130	X521147 - X5E0300-01	22-May-25	
EPA 200.7	Magnesium	mg/L	31.7	11.8	20.0	99.5	70 - 130	X521147 - X5E0240-01	22-May-25	
EPA 200.7	Magnesium	mg/L	29.4	8.02	20.0	107	70 - 130	X521147 - X5E0300-01	22-May-25	
EPA 200.7	Potassium	mg/L	21.3	1.47	20.0	99.1	70 - 130	X521147 - X5E0240-01	22-May-25	
EPA 200.7	Potassium	mg/L	44.7	24.4	20.0	102	70 - 130	X521147 - X5E0300-01	22-May-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.922	<0.080	1.00	92.2	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Aluminum	mg/L	0.917	<0.080	1.00	91.7	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Barium	mg/L	0.977	0.0326	1.00	94.5	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Barium	mg/L	0.940	<0.0020	1.00	94.0	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Beryllium	mg/L	0.935	<0.00200	1.00	93.5	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Beryllium	mg/L	0.929	<0.00200	1.00	92.9	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Boron	mg/L	1.07	<0.0400	1.00	104	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Boron	mg/L	0.977	<0.0400	1.00	97.7	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Cadmium	mg/L	0.945	<0.0020	1.00	94.5	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Cadmium	mg/L	0.952	<0.0020	1.00	95.2	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Calcium	mg/L	53.2	34.8	20.0	92.1	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Calcium	mg/L	19.4	0.914	20.0	92.2	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Chromium	mg/L	0.943	<0.0060	1.00	94.3	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Chromium	mg/L	0.940	<0.0060	1.00	94.0	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Cobalt	mg/L	0.914	<0.0060	1.00	91.4	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Cobalt	mg/L	0.923	<0.0060	1.00	92.3	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Copper	mg/L	0.915	<0.0100	1.00	91.5	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Copper	mg/L	0.907	<0.0100	1.00	90.7	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Iron	mg/L	9.25	<0.100	10.0	92.5	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Iron	mg/L	9.18	<0.100	10.0	91.8	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Lead	mg/L	0.948	<0.0075	1.00	94.8	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Lead	mg/L	0.952	<0.0075	1.00	95.2	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Lithium	mg/L	0.934	<0.040	1.00	93.4	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Lithium	mg/L	0.867	<0.040	1.00	86.7	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Magnesium	mg/L	26.3	7.80	20.0	92.6	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Magnesium	mg/L	18.0	<0.500	20.0	90.1	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Manganese	mg/L	0.955	0.0159	1.00	93.9	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Manganese	mg/L	0.952	0.0112	1.00	94.1	70 - 130	X521099 - X5E0291-01	22-May-25	

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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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: **X5E0240**
Reported: 28-May-25 15:54

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Molybdenum	mg/L	0.940	<0.0080	1.00	94.0	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Molybdenum	mg/L	0.935	<0.0080	1.00	93.5	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Nickel	mg/L	0.925	<0.0100	1.00	92.5	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Nickel	mg/L	0.939	<0.0100	1.00	93.9	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Potassium	mg/L	20.7	2.23	20.0	92.2	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Potassium	mg/L	18.7	<0.50	20.0	92.3	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Silver	mg/L	0.0467	<0.0050	0.0500	93.4	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Silver	mg/L	0.0468	<0.0050	0.0500	93.6	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Sodium	mg/L	42.2	24.9	19.0	91.3	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Sodium	mg/L	18.3	0.74	19.0	92.4	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Vanadium	mg/L	0.950	<0.0050	1.00	94.8	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Vanadium	mg/L	0.936	<0.0050	1.00	93.6	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Zinc	mg/L	0.940	<0.0100	1.00	93.0	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Zinc	mg/L	0.936	<0.0100	1.00	92.9	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.8	Antimony	mg/L	0.0225	<0.00100	0.0250	89.9	70 - 130	X521038 - X5E0161-01	21-May-25	
EPA 200.8	Antimony	mg/L	0.0231	<0.00100	0.0250	92.6	70 - 130	X521038 - X5E0240-01	21-May-25	
EPA 200.8	Arsenic	mg/L	0.0230	<0.00100	0.0250	92.2	70 - 130	X521038 - X5E0161-01	21-May-25	
EPA 200.8	Arsenic	mg/L	0.0246	<0.00100	0.0250	98.5	70 - 130	X521038 - X5E0240-01	21-May-25	
EPA 200.8	Selenium	mg/L	0.0247	<0.00100	0.0250	98.8	70 - 130	X521038 - X5E0161-01	21-May-25	
EPA 200.8	Selenium	mg/L	0.0243	<0.00100	0.0250	97.3	70 - 130	X521038 - X5E0240-01	21-May-25	
EPA 200.8	Thallium	mg/L	0.0219	<0.000200	0.0250	87.7	70 - 130	X521038 - X5E0161-01	21-May-25	
EPA 200.8	Thallium	mg/L	0.0246	<0.000200	0.0250	98.5	70 - 130	X521038 - X5E0240-01	21-May-25	
EPA 200.8	Uranium	mg/L	0.0248	0.000363	0.0250	97.9	70 - 130	X521038 - X5E0161-01	21-May-25	
EPA 200.8	Uranium	mg/L	0.0260	0.000133	0.0250	104	70 - 130	X521038 - X5E0240-01	21-May-25	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00204	<0.000200	0.00200	102	70 - 130	X521025 - X5E0240-01	20-May-25	
EPA 245.1	Mercury	mg/L	0.00205	<0.000200	0.00200	102	70 - 130	X521025 - X5E0258-01	20-May-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.103	<0.0050	0.100	103	79 - 121	X521008 - X5E0056-02	19-May-25	
EPA 335.4	Cyanide (total)	mg/L	0.101	<0.0050	0.100	101	90 - 110	X521058 - X5E0161-01	21-May-25	
EPA 335.4	Cyanide (total)	mg/L	0.103	<0.0050	0.100	103	90 - 110	X521058 - X5E0161-02	21-May-25	
EPA 350.1	Ammonia as N	mg/L	0.970	<0.030	1.00	97.0	90 - 110	X521188 - X5E0220-05	27-May-25	
EPA 350.1	Ammonia as N	mg/L	0.984	<0.030	1.00	98.4	90 - 110	X521188 - X5E0220-04	27-May-25	
OIA 1677	Cyanide (WAD)	mg/L	0.102	<0.0050	0.100	102	82 - 118	X521009 - X5E0161-01	21-May-25	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	7.96	5.08	3.00	96.0	90 - 110	X520184 - X5E0240-01	16-May-25	
EPA 300.0	Chloride	mg/L	3.74	0.77	3.00	98.8	90 - 110	X520184 - X5E0246-02	16-May-25	
EPA 300.0	Fluoride	mg/L	2.09	0.127	2.00	98.4	90 - 110	X520184 - X5E0240-01	16-May-25	
EPA 300.0	Fluoride	mg/L	2.01	<0.100	2.00	100	90 - 110	X520184 - X5E0246-02	16-May-25	
EPA 300.0	Nitrate as N	mg/L	1.94	<0.050	2.00	96.8	90 - 110	X520184 - X5E0240-01	16-May-25	
EPA 300.0	Nitrate as N	mg/L	2.43	0.501	2.00	96.4	90 - 110	X520184 - X5E0246-02	16-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.93	<0.100	4.00	98.2	90 - 110	X520184 - X5E0240-01	16-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.42	0.501	4.00	98.1	90 - 110	X520184 - X5E0246-02	16-May-25	
EPA 300.0	Nitrite as N	mg/L	1.99	<0.050	2.00	99.5	90 - 110	X520184 - X5E0240-01	16-May-25	
EPA 300.0	Nitrite as N	mg/L	1.99	<0.050	2.00	99.7	90 - 110	X520184 - X5E0246-02	16-May-25	
EPA 300.0	Sulfate as SO4	mg/L	75.6	67.5	10.0	0.30R>S	90 - 110	X520184 - X5E0240-01	16-May-25	M4
EPA 300.0	Sulfate as SO4	mg/L	15.5	5.68	10.0	98.2	90 - 110	X520184 - X5E0246-02	16-May-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: **X5E0240**
Reported: 28-May-25 15:54

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	39.8	40.0	20.0	0.3	20	100	X521147 - X5E0240-01	
EPA 200.7	Magnesium	mg/L	32.3	31.7	20.0	1.9	20	103	X521147 - X5E0240-01	
EPA 200.7	Potassium	mg/L	21.0	21.3	20.0	1.6	20	97.5	X521147 - X5E0240-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.916	0.922	1.00	0.7	20	91.6	X521099 - X5E0219-01	
EPA 200.7	Barium	mg/L	0.966	0.977	1.00	1.2	20	93.3	X521099 - X5E0219-01	
EPA 200.7	Beryllium	mg/L	0.938	0.935	1.00	0.2	20	93.8	X521099 - X5E0219-01	
EPA 200.7	Boron	mg/L	1.07	1.07	1.00	0.1	20	104	X521099 - X5E0219-01	
EPA 200.7	Cadmium	mg/L	0.943	0.945	1.00	0.1	20	94.3	X521099 - X5E0219-01	
EPA 200.7	Calcium	mg/L	52.8	53.2	20.0	0.7	20	90.1	X521099 - X5E0219-01	
EPA 200.7	Chromium	mg/L	0.937	0.943	1.00	0.6	20	93.7	X521099 - X5E0219-01	
EPA 200.7	Cobalt	mg/L	0.913	0.914	1.00	0.1	20	91.3	X521099 - X5E0219-01	
EPA 200.7	Copper	mg/L	0.911	0.915	1.00	0.4	20	91.1	X521099 - X5E0219-01	
EPA 200.7	Iron	mg/L	9.18	9.25	10.0	0.7	20	91.8	X521099 - X5E0219-01	
EPA 200.7	Lead	mg/L	0.945	0.948	1.00	0.2	20	94.5	X521099 - X5E0219-01	
EPA 200.7	Lithium	mg/L	0.932	0.934	1.00	0.3	20	93.2	X521099 - X5E0219-01	
EPA 200.7	Magnesium	mg/L	26.2	26.3	20.0	0.3	20	92.2	X521099 - X5E0219-01	
EPA 200.7	Manganese	mg/L	0.954	0.955	1.00	0.0	20	93.9	X521099 - X5E0219-01	
EPA 200.7	Molybdenum	mg/L	0.940	0.940	1.00	0.0	20	94.0	X521099 - X5E0219-01	
EPA 200.7	Nickel	mg/L	0.925	0.925	1.00	0.1	20	92.5	X521099 - X5E0219-01	
EPA 200.7	Potassium	mg/L	20.6	20.7	20.0	0.4	20	91.7	X521099 - X5E0219-01	
EPA 200.7	Silver	mg/L	0.0468	0.0467	0.0500	0.3	20	93.6	X521099 - X5E0219-01	
EPA 200.7	Sodium	mg/L	41.9	42.2	19.0	0.7	20	89.8	X521099 - X5E0219-01	
EPA 200.7	Vanadium	mg/L	0.946	0.950	1.00	0.4	20	94.4	X521099 - X5E0219-01	
EPA 200.7	Zinc	mg/L	0.939	0.940	1.00	0.0	20	93.0	X521099 - X5E0219-01	
EPA 200.8	Antimony	mg/L	0.0233	0.0225	0.0250	3.6	20	93.2	X521038 - X5E0161-01	
EPA 200.8	Arsenic	mg/L	0.0237	0.0230	0.0250	2.7	20	94.7	X521038 - X5E0161-01	
EPA 200.8	Selenium	mg/L	0.0255	0.0247	0.0250	3.2	20	102	X521038 - X5E0161-01	
EPA 200.8	Thallium	mg/L	0.0229	0.0219	0.0250	4.2	20	91.5	X521038 - X5E0161-01	
EPA 200.8	Uranium	mg/L	0.0256	0.0248	0.0250	3.1	20	101	X521038 - X5E0161-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00203	0.00204	0.00200	0.3	20	101	X521025 - X5E0240-01	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.107	0.103	0.100	3.7	11	107	X521008 - X5E0056-02	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.101	0.100	2.2	20	103	X521058 - X5E0161-01	
EPA 350.1	Ammonia as N	mg/L	0.996	0.970	1.00	2.6	20	99.6	X521188 - X5E0220-05	
OIA 1677	Cyanide (WAD)	mg/L	0.0997	0.102	0.100	1.8	11	99.7	X521009 - X5E0161-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	8.05	7.96	3.00	1.1	20	98.9	X520184 - X5E0240-01	
EPA 300.0	Fluoride	mg/L	2.13	2.09	2.00	1.9	20	100	X520184 - X5E0240-01	
EPA 300.0	Nitrate as N	mg/L	1.97	1.94	2.00	1.9	20	98.7	X520184 - X5E0240-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.00	3.93	4.00	1.9	20	100	X520184 - X5E0240-01	
EPA 300.0	Nitrite as N	mg/L	2.03	1.99	2.00	1.8	20	101	X520184 - X5E0240-01	
EPA 300.0	Sulfate as SO4	mg/L	76.6	75.6	10.0	1.3	20	90.8	X520184 - X5E0240-01	

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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: **X5E0240**
Cripple Creek, CO 80813	Reported: 28-May-25 15:54

Notes and Definitions

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

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Cripple Creek & Victor Gold Mining Company	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Ironclad Security 1632 County Rd 82	Work Order: **X5E0284**
Cripple Creek, CO 80813	Reported: 04-Jun-25 15:10

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
EMP-16	X5E0284-01	Ground Water	19-May-25 12:06	JC	20-May-2025	
EMP-17	X5E0284-02	Ground Water	19-May-25 13:00	JC	20-May-2025	
EMP-17B	X5E0284-03	Ground Water	19-May-25 13:25	JC	20-May-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.

Case Narrative: X5E0284

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: **X5E0284**
Reported: 04-Jun-25 15:10

Client Sample ID: **EMP-16**
SVL Sample ID: **X5E0284-01 (Ground Water)**

Sampled: 19-May-25 12:06
Received: 20-May-25
Sampled By: JC

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**	146	mg/L	0.100	0.069		X521167	SJN	05/29/25 12:55	
EPA 200.7	**Magnesium**	73.5	mg/L	0.500	0.090		X521167	SJN	05/29/25 12:55	
EPA 200.7	**Potassium**	4.71	mg/L	0.50	0.18		X521167	SJN	05/29/25 12:55	
SM 2340 B	**Hardness (as CaCO3)**	642	mg/L	2.31	0.543		N/A		05/22/25 07:46	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	139	mg/L	0.080	0.054		X521099	JRR	05/22/25 07:46	
EPA 200.7	**Barium**	0.0175	mg/L	0.0020	0.0019		X521099	JRR	05/22/25 07:46	
EPA 200.7	**Beryllium**	0.0296	mg/L	0.00200	0.00080		X521099	JRR	05/22/25 07:46	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X521099	SJN	05/22/25 12:42	
EPA 200.7	**Cadmium**	0.207	mg/L	0.0020	0.0016		X521099	JRR	05/22/25 07:46	
EPA 200.7	**Calcium**	136	mg/L	0.100	0.069		X521099	JRR	05/22/25 07:46	
EPA 200.7	**Chromium**	0.0353	mg/L	0.0060	0.0020		X521099	JRR	05/22/25 07:46	
EPA 200.7	**Cobalt**	1.09	mg/L	0.0060	0.0046		X521099	JRR	05/22/25 07:46	
EPA 200.7	**Copper**	0.461	mg/L	0.0100	0.0027		X521099	JRR	05/22/25 07:46	
EPA 200.7	**Iron**	9.12	mg/L	0.100	0.056		X521099	JRR	05/22/25 07:46	
EPA 200.7	**Lead**	0.0258	mg/L	0.0075	0.0049		X521099	JRR	05/22/25 07:46	
EPA 200.7	**Lithium**	0.128	mg/L	0.040	0.025		X521099	JRR	05/22/25 07:46	
EPA 200.7	**Magnesium**	67.8	mg/L	0.500	0.090		X521099	JRR	05/22/25 07:46	
EPA 200.7	**Manganese**	33.3	mg/L	0.0080	0.0034		X521099	JRR	05/22/25 07:46	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X521099	JRR	05/22/25 07:46	
EPA 200.7	**Nickel**	0.734	mg/L	0.0100	0.0048		X521099	JRR	05/22/25 07:46	
EPA 200.7	**Potassium**	4.46	mg/L	0.50	0.18		X521099	JRR	05/22/25 07:46	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X521099	JRR	05/22/25 07:46	
EPA 200.7	**Sodium**	5.97	mg/L	0.50	0.12		X521099	JRR	05/22/25 07:46	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X521099	JRR	05/22/25 07:46	
EPA 200.7	**Zinc**	9.96	mg/L	0.0100	0.0054		X521099	JRR	05/22/25 07:46	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X521236	SMU	05/28/25 13:06	
EPA 200.8	**Arsenic**	0.0251	mg/L	0.00100	0.00021		X521236	SMU	05/28/25 13:06	
EPA 200.8	**Selenium**	0.00189	mg/L	0.00100	0.00024		X521236	SMU	05/28/25 13:06	
EPA 200.8	**Thallium**	0.000209	mg/L	0.000200	0.00008		X521236	SMU	05/28/25 13:06	
EPA 200.8	**Uranium**	0.446	mg/L	0.000100	0.000052		X521236	SMU	05/28/25 13:06	M3
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X521202	MAC	05/23/25 15:12	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X521121	JPM	05/22/25 16:45	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X522003	JPM	05/28/25 16:07	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X522051	JPM	05/29/25 17:05	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X521009	JPM	05/21/25 16:11	
SM 2310 B	**Acidity to pH 8.3**	956	mg/L as CaCO3	10.0			X523019	MWD	06/02/25 15:43	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 13:56	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 13:56	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 13:56	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 13:56	
SM 2540 C	**Total Diss. Solids**	2240	mg/L	40			X521130	TJL	05/22/25 13:45	
SM 2540 D	**Total Susp. Solids**	7.0	mg/L	5.0			X521131	TJL	05/23/25 16:00	
SM 4500 H B	**pH @19.7°C**	3.2	pH Units				X521076	MWD	05/21/25 13:56	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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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: **X5E0284**
Reported: 04-Jun-25 15:10

Client Sample ID: **EMP-16**
SVL Sample ID: **X5E0284-01 (Ground Water)**

Sampled: 19-May-25 12:06
Received: 20-May-25
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	7.62	mg/L	0.20	0.02		X521080	RS	05/20/25 21:09	
EPA 300.0	**Fluoride**	13.4	mg/L	5.00	0.850	50	X521080	RS	05/21/25 16:41	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X521080	RS	05/20/25 21:09	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X521080	RS	05/20/25 21:09	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X521080	RS	05/20/25 21:09	
EPA 300.0	**Sulfate as SO4**	1560	mg/L	15.0	9.00	50	X521080	RS	05/20/25 21:25	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 31.9 meq/L Anion Sum: 33.4 meq/L C/A Balance: -2.39 % Calculated TDS: 1803 TDS/cTDS: 1.24

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: **X5E0284**
Reported: 04-Jun-25 15:10

Client Sample ID: **EMP-17**
SVL Sample ID: **X5E0284-02 (Ground Water)**

Sampled: 19-May-25 13:00
Received: 20-May-25
Sampled By: JC

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**	303	mg/L	0.100	0.069		X521167	SJN	05/29/25 12:59	
EPA 200.7	**Magnesium**	132	mg/L	0.500	0.090		X521167	SJN	05/29/25 12:59	
EPA 200.7	**Potassium**	8.96	mg/L	0.50	0.18		X521167	SJN	05/29/25 12:59	
SM 2340 B	**Hardness (as CaCO3)**	1300	mg/L	2.31	0.543		N/A		05/22/25 07:50	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X521099	JRR	05/22/25 07:50	
EPA 200.7	**Barium**	0.0305	mg/L	0.0020	0.0019		X521099	JRR	05/22/25 07:50	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X521099	JRR	05/22/25 07:50	
EPA 200.7	**Boron**	0.0663	mg/L	0.0400	0.0078		X521099	SJN	05/22/25 12:46	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X521099	JRR	05/22/25 07:50	
EPA 200.7	**Calcium**	275	mg/L	0.100	0.069		X521099	JRR	05/22/25 07:50	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X521099	JRR	05/22/25 07:50	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X521099	JRR	05/22/25 07:50	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X521099	JRR	05/22/25 07:50	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X521099	JRR	05/22/25 07:50	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X521099	JRR	05/22/25 07:50	
EPA 200.7	**Lithium**	0.050	mg/L	0.040	0.025		X521099	JRR	05/22/25 07:50	
EPA 200.7	**Magnesium**	118	mg/L	0.500	0.090		X521099	JRR	05/22/25 07:50	
EPA 200.7	**Manganese**	0.144	mg/L	0.0080	0.0034		X521099	JRR	05/22/25 07:50	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X521099	JRR	05/22/25 07:50	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X521099	JRR	05/22/25 07:50	
EPA 200.7	**Potassium**	8.26	mg/L	0.50	0.18		X521099	JRR	05/22/25 07:50	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X521099	JRR	05/22/25 07:50	
EPA 200.7	**Sodium**	87.2	mg/L	0.50	0.12		X521099	JRR	05/22/25 07:50	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X521099	JRR	05/22/25 07:50	
EPA 200.7	**Zinc**	0.114	mg/L	0.0100	0.0054		X521099	JRR	05/22/25 07:50	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X521236	SMU	05/28/25 13:15	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X521236	SMU	05/28/25 13:15	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X521236	SMU	05/28/25 13:15	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X521236	SMU	05/28/25 13:15	
EPA 200.8	**Uranium**	0.00179	mg/L	0.000100	0.000052		X521236	SMU	05/28/25 13:15	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X521202	MAC	05/23/25 15:18	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X521121	JPM	05/22/25 16:48	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X522003	JPM	05/28/25 16:09	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X522051	JPM	05/29/25 17:08	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X521009	JPM	05/21/25 16:14	
SM 2310 B	**Acidity to pH 8.3**	-14.1	mg/L as CaCO3	10.0			X523019	MWD	06/02/25 15:43	
SM 2320 B	**Total Alkalinity**	10.5	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 16:57	
SM 2320 B	**Bicarbonate**	10.5	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 16:57	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 16:57	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 16:57	
SM 2540 C	**Total Diss. Solids**	1950	mg/L	40			X521130	TJL	05/22/25 13:45	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X521131	TJL	05/23/25 16:00	
SM 4500 H B	**pH @20.5°C**	7.0	pH Units				X521076	MWD	05/21/25 16:57	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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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: **X5E0284**
Reported: 04-Jun-25 15:10

Client Sample ID: **EMP-17**
SVL Sample ID: **X5E0284-02 (Ground Water)**

Sampled: 19-May-25 13:00
Received: 20-May-25
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	8.80	mg/L	0.20	0.02		X521080	RS	05/20/25 22:11	
EPA 300.0	**Fluoride**	2.05	mg/L	0.100	0.017		X521080	RS	05/21/25 17:11	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X521080	RS	05/20/25 22:11	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X521080	RS	05/20/25 22:11	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X521080	RS	05/20/25 22:11	
EPA 300.0	**Sulfate as SO4**	1370	mg/L	15.0	9.00	50	X521080	RS	05/20/25 22:26	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 27.5 meq/L Anion Sum: 29.1 meq/L C/A Balance: -2.88 % Calculated TDS: 1897 TDS/cTDS: 1.03

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: **X5E0284**
Reported: 04-Jun-25 15:10

Client Sample ID: **EMP-17B**
SVL Sample ID: **X5E0284-03 (Ground Water)**

Sampled: 19-May-25 13:25
Received: 20-May-25
Sampled By: JC

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**	213	mg/L	0.100	0.069		X521167	SJN	05/29/25 13:03	
EPA 200.7	**Magnesium**	87.4	mg/L	0.500	0.090		X521167	SJN	05/29/25 13:03	
EPA 200.7	**Potassium**	4.03	mg/L	0.50	0.18		X521167	SJN	05/29/25 13:03	
SM 2340 B	**Hardness (as CaCO3)**	848	mg/L	2.31	0.543		N/A		05/22/25 07:53	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	52.2	mg/L	0.080	0.054		X521099	JRR	05/22/25 07:53	
EPA 200.7	**Barium**	0.0192	mg/L	0.0020	0.0019		X521099	JRR	05/22/25 07:53	
EPA 200.7	**Beryllium**	0.00898	mg/L	0.00200	0.00080		X521099	JRR	05/22/25 07:53	
EPA 200.7	**Boron**	0.0618	mg/L	0.0400	0.0078		X521099	SJN	05/22/25 12:50	
EPA 200.7	**Cadmium**	0.283	mg/L	0.0020	0.0016		X521099	JRR	05/22/25 07:53	
EPA 200.7	**Calcium**	196	mg/L	0.100	0.069		X521099	JRR	05/22/25 07:53	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X521099	JRR	05/22/25 07:53	
EPA 200.7	**Cobalt**	0.200	mg/L	0.0060	0.0046		X521099	JRR	05/22/25 07:53	
EPA 200.7	**Copper**	0.283	mg/L	0.0100	0.0027		X521099	JRR	05/22/25 07:53	
EPA 200.7	**Iron**	0.603	mg/L	0.100	0.056		X521099	JRR	05/22/25 07:53	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X521099	JRR	05/22/25 07:53	
EPA 200.7	**Lithium**	0.067	mg/L	0.040	0.025		X521099	JRR	05/22/25 07:53	
EPA 200.7	**Magnesium**	79.3	mg/L	0.500	0.090		X521099	JRR	05/22/25 07:53	
EPA 200.7	**Manganese**	38.7	mg/L	0.0080	0.0034		X521099	JRR	05/22/25 07:53	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X521099	JRR	05/22/25 07:53	
EPA 200.7	**Nickel**	0.180	mg/L	0.0100	0.0048		X521099	JRR	05/22/25 07:53	
EPA 200.7	**Potassium**	3.65	mg/L	0.50	0.18		X521099	JRR	05/22/25 07:53	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X521099	JRR	05/22/25 07:53	
EPA 200.7	**Sodium**	30.8	mg/L	0.50	0.12		X521099	JRR	05/22/25 07:53	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X521099	JRR	05/22/25 07:53	
EPA 200.7	**Zinc**	14.6	mg/L	0.0100	0.0054		X521099	JRR	05/22/25 07:53	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X521236	SMU	05/28/25 13:18	
EPA 200.8	**Arsenic**	0.0114	mg/L	0.00100	0.00021		X521236	SMU	05/28/25 13:18	
EPA 200.8	**Selenium**	0.00108	mg/L	0.00100	0.00024		X521236	SMU	05/28/25 13:18	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X521236	SMU	05/28/25 13:18	
EPA 200.8	**Uranium**	0.191	mg/L	0.000100	0.000052		X521236	SMU	05/28/25 13:18	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X521202	MAC	05/23/25 15:20	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X521121	JPM	05/22/25 16:51	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X522003	JPM	05/28/25 16:11	
EPA 350.1	**Ammonia as N**	0.075	mg/L	0.030	0.013		X522051	JPM	05/29/25 17:10	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X521009	JPM	05/21/25 16:17	
SM 2310 B	**Acidity to pH 8.3**	402	mg/L as CaCO3	10.0			X523019	MWD	06/02/25 15:43	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 14:07	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 14:07	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 14:07	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 14:07	
SM 2540 C	**Total Diss. Solids**	1800	mg/L	40			X521130	TJL	05/22/25 13:45	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X521131	TJL	05/23/25 16:00	
SM 4500 H B	**pH @19.7°C**	4.0	pH Units				X521076	MWD	05/21/25 14:07	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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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: **X5E0284**
Reported: 04-Jun-25 15:10

Client Sample ID: **EMP-17B**
SVL Sample ID: **X5E0284-03 (Ground Water)**

Sampled: 19-May-25 13:25
Received: 20-May-25
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	2.35	mg/L	0.20	0.02		X521080	RS	05/20/25 22:42	
EPA 300.0	**Fluoride**	25.6	mg/L	5.00	0.850	50	X521080	RS	05/21/25 16:56	
EPA 300.0	**Nitrate as N**	0.093	mg/L	0.050	0.013		X521080	RS	05/20/25 22:42	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X521080	RS	05/20/25 22:42	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X521080	RS	05/20/25 22:42	
EPA 300.0	**Sulfate as SO4**	1250	mg/L	15.0	9.00	50	X521080	RS	05/20/25 22:57	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 25.8 meq/L Anion Sum: 27.5 meq/L C/A Balance: -3.16 % Calculated TDS: 1600 TDS/cTDS: 1.12

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

Kristi A. Groth

Kristi A. Groth
Project Manager

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

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X5E0284**
Reported: 04-Jun-25 15:10

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	X521167	29-May-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X521167	29-May-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X521167	29-May-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X521099	22-May-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X521099	22-May-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X521099	22-May-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X521099	22-May-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X521099	22-May-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X521099	22-May-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X521099	22-May-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X521099	22-May-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X521099	22-May-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X521099	22-May-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X521099	22-May-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X521099	22-May-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X521099	22-May-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X521099	22-May-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X521099	22-May-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X521099	22-May-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X521099	22-May-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X521099	22-May-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X521099	22-May-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X521099	22-May-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X521099	22-May-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X521236	28-May-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X521236	28-May-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X521236	28-May-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X521236	28-May-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X521236	28-May-25	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X521202	23-May-25	
Classical Chemistry Parameters								
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X521121	22-May-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X522003	28-May-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X522051	29-May-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X521009	21-May-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X523019	02-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X521076	21-May-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X521076	21-May-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X521076	21-May-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X521076	21-May-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X521130	22-May-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X521131	23-May-25	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X521080	20-May-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X521080	21-May-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X521080	20-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X521080	20-May-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X521080	20-May-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X521080	20-May-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: **X5E0284**
Reported: 04-Jun-25 15:10

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	19.8	20.0	99	85 - 115	X521167	29-May-25	
EPA 200.7	Magnesium	mg/L	19.5	20.0	97.6	85 - 115	X521167	29-May-25	
EPA 200.7	Potassium	mg/L	19.6	20.0	97.8	85 - 115	X521167	29-May-25	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.938	1.00	93.8	85 - 115	X521099	22-May-25	
EPA 200.7	Barium	mg/L	0.965	1.00	96.5	85 - 115	X521099	22-May-25	
EPA 200.7	Beryllium	mg/L	0.955	1.00	95.5	85 - 115	X521099	22-May-25	
EPA 200.7	Boron	mg/L	0.995	1.00	99.5	85 - 115	X521099	22-May-25	
EPA 200.7	Cadmium	mg/L	0.948	1.00	94.8	85 - 115	X521099	22-May-25	
EPA 200.7	Calcium	mg/L	18.6	20.0	93.1	85 - 115	X521099	22-May-25	
EPA 200.7	Chromium	mg/L	0.962	1.00	96.2	85 - 115	X521099	22-May-25	
EPA 200.7	Cobalt	mg/L	0.925	1.00	92.5	85 - 115	X521099	22-May-25	
EPA 200.7	Copper	mg/L	0.942	1.00	94.2	85 - 115	X521099	22-May-25	
EPA 200.7	Iron	mg/L	9.30	10.0	93.0	85 - 115	X521099	22-May-25	
EPA 200.7	Lead	mg/L	0.948	1.00	94.8	85 - 115	X521099	22-May-25	
EPA 200.7	Lithium	mg/L	0.914	1.00	91.4	85 - 115	X521099	22-May-25	
EPA 200.7	Magnesium	mg/L	18.4	20.0	91.9	85 - 115	X521099	22-May-25	
EPA 200.7	Manganese	mg/L	0.968	1.00	96.8	85 - 115	X521099	22-May-25	
EPA 200.7	Molybdenum	mg/L	0.943	1.00	94.3	85 - 115	X521099	22-May-25	
EPA 200.7	Nickel	mg/L	0.939	1.00	93.9	85 - 115	X521099	22-May-25	
EPA 200.7	Potassium	mg/L	18.7	20.0	93.6	85 - 115	X521099	22-May-25	
EPA 200.7	Silver	mg/L	0.0470	0.0500	94.0	85 - 115	X521099	22-May-25	
EPA 200.7	Sodium	mg/L	17.9	19.0	94.0	85 - 115	X521099	22-May-25	
EPA 200.7	Vanadium	mg/L	0.964	1.00	96.4	85 - 115	X521099	22-May-25	
EPA 200.7	Zinc	mg/L	0.924	1.00	92.4	85 - 115	X521099	22-May-25	
EPA 200.8	Antimony	mg/L	0.0234	0.0250	93.7	85 - 115	X521236	28-May-25	
EPA 200.8	Arsenic	mg/L	0.0222	0.0250	88.9	85 - 115	X521236	28-May-25	
EPA 200.8	Selenium	mg/L	0.0217	0.0250	86.8	85 - 115	X521236	28-May-25	
EPA 200.8	Thallium	mg/L	0.0229	0.0250	91.5	85 - 115	X521236	28-May-25	
EPA 200.8	Uranium	mg/L	0.0246	0.0250	98.3	85 - 115	X521236	28-May-25	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00201	0.00200	101	85 - 115	X521202	23-May-25	
Classical Chemistry Parameters									
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0997	0.100	99.7	90 - 110	X521121	22-May-25	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.100	103	90 - 110	X522003	28-May-25	
EPA 350.1	Ammonia as N	mg/L	0.914	1.00	91.4	90 - 110	X522051	29-May-25	
OIA 1677	Cyanide (WAD)	mg/L	0.0972	0.100	97.2	90 - 110	X521009	21-May-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1170	1180	99.3	95.4 - 104	X523019	02-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.0	9.93	101	94 - 106	X521076	21-May-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	99.5	99.3	100	94 - 106	X521076	21-May-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	416	397	105	94 - 106	X521076	21-May-25	
SM 2540 C	Total Diss. Solids	mg/L	248	250	99.2	85 - 115	X521130	22-May-25	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X521131	23-May-25	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.94	3.00	97.9	90 - 110	X521080	20-May-25	
EPA 300.0	Fluoride	mg/L	1.98	2.00	98.8	90 - 110	X521080	21-May-25	
EPA 300.0	Nitrate as N	mg/L	1.94	2.00	96.9	90 - 110	X521080	20-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.42	4.50	98.2	90 - 110	X521080	20-May-25	
EPA 300.0	Nitrite as N	mg/L	2.48	2.50	99.2	90 - 110	X521080	20-May-25	
EPA 300.0	Sulfate as SO4	mg/L	9.77	10.0	97.7	90 - 110	X521080	20-May-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: **X5E0284**
Reported: 04-Jun-25 15:10

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	516	516	0.0	20	X523019 - X5E0283-01	02-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	55.4	55.3	0.2	20	X521076 - X5E0240-01	21-May-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	55.4	55.3	0.2	20	X521076 - X5E0240-01	21-May-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X521076 - X5E0240-01	21-May-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X521076 - X5E0240-01	21-May-25	
SM 2540 C	Total Diss. Solids	mg/L	396	387	2.3	10	X521130 - X5E0283-03	22-May-25	
SM 2540 C	Total Diss. Solids	mg/L	399	395	1.0	10	X521130 - X5E0287-04	22-May-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X521131 - X5E0287-04	23-May-25	
SM 2540 D	Total Susp. Solids	mg/L	64.0	26.0	84.4	10	X521131 - X5E0283-04	23-May-25	R2B
SM 4500 H B	pH @19.5°C	pH Units	6.8	6.8	0.9	20	X521076 - X5E0240-01	21-May-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	66.8	46.2	20.0	103	70 - 130	X521167 - X5E0287-05	29-May-25	
EPA 200.7	Calcium	mg/L	22.4	2.15	20.0	101	70 - 130	X521167 - X5E0328-05	29-May-25	
EPA 200.7	Magnesium	mg/L	32.3	11.4	20.0	105	70 - 130	X521167 - X5E0287-05	29-May-25	
EPA 200.7	Magnesium	mg/L	20.6	0.654	20.0	99.9	70 - 130	X521167 - X5E0328-05	29-May-25	
EPA 200.7	Potassium	mg/L	22.5	2.15	20.0	102	70 - 130	X521167 - X5E0287-05	29-May-25	
EPA 200.7	Potassium	mg/L	20.1	<0.50	20.0	99.4	70 - 130	X521167 - X5E0328-05	29-May-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.922	<0.080	1.00	92.2	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Aluminum	mg/L	0.917	<0.080	1.00	91.7	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Barium	mg/L	0.977	0.0326	1.00	94.5	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Barium	mg/L	0.940	<0.0020	1.00	94.0	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Beryllium	mg/L	0.935	<0.00200	1.00	93.5	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Beryllium	mg/L	0.929	<0.00200	1.00	92.9	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Boron	mg/L	1.07	<0.0400	1.00	104	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Boron	mg/L	0.977	<0.0400	1.00	97.7	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Cadmium	mg/L	0.945	<0.0020	1.00	94.5	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Cadmium	mg/L	0.952	<0.0020	1.00	95.2	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Calcium	mg/L	53.2	34.8	20.0	92.1	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Calcium	mg/L	19.4	0.914	20.0	92.2	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Chromium	mg/L	0.943	<0.0060	1.00	94.3	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Chromium	mg/L	0.940	<0.0060	1.00	94.0	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Cobalt	mg/L	0.914	<0.0060	1.00	91.4	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Cobalt	mg/L	0.923	<0.0060	1.00	92.3	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Copper	mg/L	0.915	<0.0100	1.00	91.5	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Copper	mg/L	0.907	<0.0100	1.00	90.7	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Iron	mg/L	9.25	<0.100	10.0	92.5	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Iron	mg/L	9.18	<0.100	10.0	91.8	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Lead	mg/L	0.948	<0.0075	1.00	94.8	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Lead	mg/L	0.952	<0.0075	1.00	95.2	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Lithium	mg/L	0.934	<0.040	1.00	93.4	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Lithium	mg/L	0.867	<0.040	1.00	86.7	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Magnesium	mg/L	26.3	7.80	20.0	92.6	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Magnesium	mg/L	18.0	<0.500	20.0	90.1	70 - 130	X521099 - X5E0291-01	22-May-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: **X5E0284**
Reported: 04-Jun-25 15:10

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Manganese	mg/L	0.955	0.0159	1.00	93.9	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Manganese	mg/L	0.952	0.0112	1.00	94.1	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Molybdenum	mg/L	0.940	<0.0080	1.00	94.0	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Molybdenum	mg/L	0.935	<0.0080	1.00	93.5	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Nickel	mg/L	0.925	<0.0100	1.00	92.5	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Nickel	mg/L	0.939	<0.0100	1.00	93.9	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Potassium	mg/L	20.7	2.23	20.0	92.2	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Potassium	mg/L	18.7	<0.50	20.0	92.3	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Silver	mg/L	0.0467	<0.0050	0.0500	93.4	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Silver	mg/L	0.0468	<0.0050	0.0500	93.6	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Sodium	mg/L	42.2	24.9	19.0	91.3	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Sodium	mg/L	18.3	0.74	19.0	92.4	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Vanadium	mg/L	0.950	<0.0050	1.00	94.8	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Vanadium	mg/L	0.936	<0.0050	1.00	93.6	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Zinc	mg/L	0.940	<0.0100	1.00	93.0	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Zinc	mg/L	0.936	<0.0100	1.00	92.9	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.8	Antimony	mg/L	0.0253	<0.00100	0.0250	101	70 - 130	X521236 - X5E0284-01	28-May-25	
EPA 200.8	Antimony	mg/L	0.0266	<0.00100	0.0250	106	70 - 130	X521236 - X5E0312-05	28-May-25	
EPA 200.8	Arsenic	mg/L	0.0513	0.0251	0.0250	105	70 - 130	X521236 - X5E0284-01	28-May-25	
EPA 200.8	Arsenic	mg/L	0.0738	0.0434	0.0250	122	70 - 130	X521236 - X5E0312-05	28-May-25	
EPA 200.8	Selenium	mg/L	0.0263	0.00189	0.0250	97.8	70 - 130	X521236 - X5E0284-01	28-May-25	
EPA 200.8	Selenium	mg/L	0.0314	0.00759	0.0250	95.1	70 - 130	X521236 - X5E0312-05	28-May-25	
EPA 200.8	Thallium	mg/L	0.0263	0.000209	0.0250	104	70 - 130	X521236 - X5E0284-01	28-May-25	
EPA 200.8	Thallium	mg/L	0.0315	<0.000200	0.0250	126	70 - 130	X521236 - X5E0312-05	28-May-25	
EPA 200.8	Uranium	mg/L	0.463	0.446	0.0250	0.30R>S	70 - 130	X521236 - X5E0284-01	28-May-25	M3
EPA 200.8	Uranium	mg/L	1.78	1.67	0.0250	0.30R>S	70 - 130	X521236 - X5E0312-05	28-May-25	M3
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00207	<0.000200	0.00200	104	70 - 130	X521202 - X5E0281-01	23-May-25	
EPA 245.1	Mercury	mg/L	0.00205	<0.000200	0.00200	102	70 - 130	X521202 - X5E0287-01	23-May-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0987	<0.0050	0.100	98.7	79 - 121	X521121 - X5E0284-02	22-May-25	
EPA 335.4	Cyanide (total)	mg/L	0.0743	<0.0050	0.100	74.3	90 - 110	X522003 - X5E0287-02	28-May-25	M2,R2B
EPA 335.4	Cyanide (total)	mg/L	0.100	<0.0050	0.100	100	90 - 110	X522003 - X5E0287-01	28-May-25	
EPA 350.1	Ammonia as N	mg/L	0.998	0.047	1.00	95.1	90 - 110	X522051 - X5E0287-02	29-May-25	
EPA 350.1	Ammonia as N	mg/L	1.15	0.136	1.00	102	90 - 110	X522051 - X5E0287-01	29-May-25	
OIA 1677	Cyanide (WAD)	mg/L	0.102	<0.0050	0.100	102	82 - 118	X521009 - X5E0161-01	21-May-25	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.00	<0.20	3.00	99.2	90 - 110	X521080 - X5E0281-02	20-May-25	
EPA 300.0	Fluoride	mg/L	1.97	<0.100	2.00	97.9	90 - 110	X521080 - X5E0281-02	20-May-25	
EPA 300.0	Nitrate as N	mg/L	1.99	<0.050	2.00	98.1	90 - 110	X521080 - X5E0281-02	20-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.97	<0.100	4.00	99.3	90 - 110	X521080 - X5E0281-02	20-May-25	
EPA 300.0	Nitrite as N	mg/L	1.96	<0.050	2.00	97.8	90 - 110	X521080 - X5E0281-02	21-May-25	
EPA 300.0	Sulfate as SO4	mg/L	9.77	<0.30	10.0	97.7	90 - 110	X521080 - X5E0281-02	20-May-25	

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Cripple Creek & Victor Gold Mining Company
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Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X5E0284**
Reported: 04-Jun-25 15:10

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	67.8	66.8	20.0	2.0	20	108	X521167 - X5E0287-05	
EPA 200.7	Magnesium	mg/L	32.9	32.3	20.0	1.7	20	108	X521167 - X5E0287-05	
EPA 200.7	Potassium	mg/L	22.9	22.5	20.0	1.7	20	104	X521167 - X5E0287-05	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.916	0.922	1.00	0.7	20	91.6	X521099 - X5E0219-01	
EPA 200.7	Barium	mg/L	0.966	0.977	1.00	1.2	20	93.3	X521099 - X5E0219-01	
EPA 200.7	Beryllium	mg/L	0.938	0.935	1.00	0.2	20	93.8	X521099 - X5E0219-01	
EPA 200.7	Boron	mg/L	1.07	1.07	1.00	0.1	20	104	X521099 - X5E0219-01	
EPA 200.7	Cadmium	mg/L	0.943	0.945	1.00	0.1	20	94.3	X521099 - X5E0219-01	
EPA 200.7	Calcium	mg/L	52.8	53.2	20.0	0.7	20	90.1	X521099 - X5E0219-01	
EPA 200.7	Chromium	mg/L	0.937	0.943	1.00	0.6	20	93.7	X521099 - X5E0219-01	
EPA 200.7	Cobalt	mg/L	0.913	0.914	1.00	0.1	20	91.3	X521099 - X5E0219-01	
EPA 200.7	Copper	mg/L	0.911	0.915	1.00	0.4	20	91.1	X521099 - X5E0219-01	
EPA 200.7	Iron	mg/L	9.18	9.25	10.0	0.7	20	91.8	X521099 - X5E0219-01	
EPA 200.7	Lead	mg/L	0.945	0.948	1.00	0.2	20	94.5	X521099 - X5E0219-01	
EPA 200.7	Lithium	mg/L	0.932	0.934	1.00	0.3	20	93.2	X521099 - X5E0219-01	
EPA 200.7	Magnesium	mg/L	26.2	26.3	20.0	0.3	20	92.2	X521099 - X5E0219-01	
EPA 200.7	Manganese	mg/L	0.954	0.955	1.00	0.0	20	93.9	X521099 - X5E0219-01	
EPA 200.7	Molybdenum	mg/L	0.940	0.940	1.00	0.0	20	94.0	X521099 - X5E0219-01	
EPA 200.7	Nickel	mg/L	0.925	0.925	1.00	0.1	20	92.5	X521099 - X5E0219-01	
EPA 200.7	Potassium	mg/L	20.6	20.7	20.0	0.4	20	91.7	X521099 - X5E0219-01	
EPA 200.7	Silver	mg/L	0.0468	0.0467	0.0500	0.3	20	93.6	X521099 - X5E0219-01	
EPA 200.7	Sodium	mg/L	41.9	42.2	19.0	0.7	20	89.8	X521099 - X5E0219-01	
EPA 200.7	Vanadium	mg/L	0.946	0.950	1.00	0.4	20	94.4	X521099 - X5E0219-01	
EPA 200.7	Zinc	mg/L	0.939	0.940	1.00	0.0	20	93.0	X521099 - X5E0219-01	
EPA 200.8	Antimony	mg/L	0.0265	0.0253	0.0250	4.9	20	106	X521236 - X5E0284-01	
EPA 200.8	Arsenic	mg/L	0.0527	0.0513	0.0250	2.7	20	110	X521236 - X5E0284-01	
EPA 200.8	Selenium	mg/L	0.0268	0.0263	0.0250	1.9	20	99.8	X521236 - X5E0284-01	
EPA 200.8	Thallium	mg/L	0.0267	0.0263	0.0250	1.5	20	106	X521236 - X5E0284-01	
EPA 200.8	Uranium	mg/L	0.489	0.463	0.0250	5.5	20	0.30R>S	X521236 - X5E0284-01	M3
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00205	0.00207	0.00200	1.0	20	103	X521202 - X5E0281-01	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0998	0.0987	0.100	1.1	11	99.8	X521121 - X5E0284-02	
EPA 335.4	Cyanide (total)	mg/L	0.109	0.0743	0.100	37.8	20	109	X522003 - X5E0287-02	R2B
EPA 350.1	Ammonia as N	mg/L	1.02	0.998	1.00	2.4	20	97.5	X522051 - X5E0287-02	
OIA 1677	Cyanide (WAD)	mg/L	0.0997	0.102	0.100	1.8	11	99.7	X521009 - X5E0161-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.01	3.00	3.00	0.2	20	99.4	X521080 - X5E0281-02	
EPA 300.0	Fluoride	mg/L	1.99	1.97	2.00	0.9	20	98.7	X521080 - X5E0281-02	
EPA 300.0	Nitrate as N	mg/L	1.99	1.99	2.00	0.1	20	98.0	X521080 - X5E0281-02	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.95	3.97	4.00	0.6	20	98.6	X521080 - X5E0281-02	
EPA 300.0	Nitrite as N	mg/L	1.96	1.96	2.00	0.2	20	98.0	X521080 - X5E0281-02	
EPA 300.0	Sulfate as SO4	mg/L	9.89	9.77	10.0	1.2	20	98.9	X521080 - X5E0281-02	

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Cripple Creek & Victor Gold Mining Company	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Ironclad Security 1632 County Rd 82	Work Order: **X5E0284**
Cripple Creek, CO 80813	Reported: 04-Jun-25 15:10

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.
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.
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	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Ironclad Security 1632 County Rd 82	Work Order: **X5E0287**
Cripple Creek, CO 80813	Reported: 04-Jun-25 15:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-33	X5E0287-01	Ground Water	19-May-25 12:25	JC	20-May-2025	Q5
GVMW-34	X5E0287-02	Ground Water	19-May-25 13:45	JC	20-May-2025	
GVMW-10	X5E0287-03	Ground Water	19-May-25 11:02	JC	20-May-2025	
EMP-17A	X5E0287-04	Ground Water	19-May-25 12:25	MB	20-May-2025	
GV-4.5	X5E0287-05	Surface Water	19-May-25 10:33	MB	20-May-2025	
GV-05	X5E0287-06	Surface Water	19-May-25 11:05	MB	20-May-2025	
GV-06	X5E0287-07	Surface Water	19-May-25 10:00	MB	20-May-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.

Case Narrative: X5E0287

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: **X5E0287**
Reported: 04-Jun-25 15:17

Client Sample ID: **GVMW-33**
SVL Sample ID: **X5E0287-01 (Ground Water)**

Sampled: 19-May-25 12:25
Received: 20-May-25
Sampled By: JC

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**	448	mg/L	1.00	0.690	10	X521167	SJN	05/29/25 14:44	
EPA 200.7	**Magnesium**	263	mg/L	0.500	0.090		X521167	SJN	05/29/25 13:06	
EPA 200.7	**Potassium**	8.53	mg/L	0.50	0.18		X521167	SJN	05/29/25 13:06	
SM 2340 B	**Hardness (as CaCO3)**	1850	mg/L	2.31	0.543		N/A		05/29/25 13:06	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	302	mg/L	0.080	0.054		X521099	JRR	05/22/25 07:57	
EPA 200.7	**Barium**	0.0198	mg/L	0.0020	0.0019		X521099	JRR	05/22/25 07:57	
EPA 200.7	**Beryllium**	0.349	mg/L	0.00200	0.00080		X521099	JRR	05/22/25 07:57	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X521099	SJN	05/22/25 12:54	
EPA 200.7	**Cadmium**	0.700	mg/L	0.0020	0.0016		X521099	JRR	05/22/25 07:57	
EPA 200.7	**Calcium**	404	mg/L	0.100	0.069		X521099	JRR	05/22/25 07:57	
EPA 200.7	**Chromium**	0.0134	mg/L	0.0060	0.0020		X521099	JRR	05/22/25 07:57	
EPA 200.7	**Cobalt**	0.435	mg/L	0.0060	0.0046		X521099	JRR	05/22/25 07:57	
EPA 200.7	**Copper**	0.725	mg/L	0.0100	0.0027		X521099	JRR	05/22/25 07:57	
EPA 200.7	**Iron**	1.02	mg/L	0.100	0.056		X521099	JRR	05/22/25 07:57	
EPA 200.7	**Lead**	0.0165	mg/L	0.0075	0.0049		X521099	JRR	05/22/25 07:57	
EPA 200.7	**Lithium**	0.208	mg/L	0.040	0.025		X521099	JRR	05/22/25 07:57	
EPA 200.7	**Magnesium**	203	mg/L	0.500	0.090		X521099	JRR	05/22/25 07:57	
EPA 200.7	**Manganese**	122	mg/L	0.0400	0.0170	5	X521099	JRR	05/22/25 09:05	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X521099	JRR	05/22/25 07:57	
EPA 200.7	**Nickel**	1.05	mg/L	0.0100	0.0048		X521099	JRR	05/22/25 07:57	
EPA 200.7	**Potassium**	8.23	mg/L	0.50	0.18		X521099	JRR	05/22/25 07:57	
EPA 200.7	**Silver**	0.0069	mg/L	0.0050	0.0019		X521099	JRR	05/22/25 07:57	
EPA 200.7	**Sodium**	166	mg/L	0.50	0.12		X521099	JRR	05/22/25 07:57	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X521099	JRR	05/22/25 07:57	
EPA 200.7	**Zinc**	17.1	mg/L	0.0100	0.0054		X521099	JRR	05/22/25 07:57	
EPA 200.8	Antimony	< 0.0100	mg/L	0.0100	0.00720	10	X521234	JRR	05/28/25 09:49	D17
EPA 200.8	**Arsenic**	0.189	mg/L	0.0100	0.00210	10	X521234	JRR	05/28/25 09:49	D17
EPA 200.8	**Selenium**	0.0180	mg/L	0.0100	0.00240	10	X521234	JRR	05/28/25 09:49	D17
EPA 200.8	Thallium	< 0.00200	mg/L	0.00200	0.000800	10	X521234	JRR	05/28/25 09:49	D17
EPA 200.8	**Uranium**	1.04	mg/L	0.00100	0.000520	10	X521234	JRR	05/28/25 09:49	D17
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X521202	MAC	05/23/25 15:23	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X521121	JPM	05/22/25 16:54	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X522003	JPM	05/28/25 16:13	
EPA 350.1	**Ammonia as N**	0.136	mg/L	0.030	0.013		X522051	JPM	05/29/25 17:12	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X521122	JPM	05/21/25 16:32	
SM 2310 B	**Acidity to pH 8.3**	2140	mg/L as CaCO3	10.0			X523019	MWD	06/02/25 15:43	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 14:12	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 14:12	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 14:12	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 14:12	
SM 2540 C	**Total Diss. Solids**	6170	mg/L	40			X521130	TJL	05/22/25 13:45	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X521131	TJL	05/23/25 16:00	
SM 4500 H B	**pH @19.8°C**	3.8	pH Units				X521076	MWD	05/21/25 14:12	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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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: **X5E0287**
Reported: 04-Jun-25 15:17

Client Sample ID: **GVMW-33**
SVL Sample ID: **X5E0287-01 (Ground Water)**

Sampled: 19-May-25 12:25
Received: 20-May-25
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	5.68	mg/L	1.00	0.11	5	X521080	RS	05/20/25 23:12	D18
EPA 300.0	**Fluoride**	60.8	mg/L	10.0	1.70	100	X521080	RS	05/21/25 17:42	
EPA 300.0	Nitrate as N	< 5.00	mg/L	5.00	1.30	100	X521080	RS	05/20/25 23:28	D18
EPA 300.0	Nitrate+Nitrite as N	< 10.0	mg/L	10.0	4.40	100	X521080	RS	05/20/25 23:12	D18
EPA 300.0	Nitrite as N	< 0.250	mg/L	0.250	0.155	5	X521080	RS	05/20/25 23:12	D18
EPA 300.0	**Sulfate as SO4**	4320	mg/L	30.0	18.0	100	X521080	RS	05/20/25 23:28	

Cation/Anion Balance and TDS Ratios

Cation Sum: 87.1 meq/L Anion Sum: 93.6 meq/L C/A Balance: -3.62 % Calculated TDS: 5220 TDS/cTDS: 1.18

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

Kristi A. Groth

Kristi A. Groth
Project Manager

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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: **X5E0287**
Reported: 04-Jun-25 15:17

Client Sample ID: **GVMW-34**
SVL Sample ID: **X5E0287-02 (Ground Water)**

Sampled: 19-May-25 13:45
Received: 20-May-25
Sampled By: JC

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**	568	mg/L	1.00	0.690	10	X521167	SJN	05/29/25 14:40	
EPA 200.7	**Magnesium**	398	mg/L	0.500	0.090		X521167	SJN	05/29/25 13:10	
EPA 200.7	**Potassium**	5.37	mg/L	0.50	0.18		X521167	SJN	05/29/25 13:10	
SM 2340 B	**Hardness (as CaCO3)**	2840	mg/L	4.56	2.09		N/A		05/29/25 13:10	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	24.3	mg/L	0.080	0.054		X521099	JRR	05/22/25 08:01	
EPA 200.7	**Barium**	0.0294	mg/L	0.0020	0.0019		X521099	JRR	05/22/25 08:01	
EPA 200.7	**Beryllium**	0.0218	mg/L	0.00200	0.00080		X521099	JRR	05/22/25 08:01	
EPA 200.7	**Boron**	0.0417	mg/L	0.0400	0.0078		X521099	SJN	05/22/25 12:58	
EPA 200.7	**Cadmium**	0.108	mg/L	0.0020	0.0016		X521099	JRR	05/22/25 08:01	
EPA 200.7	**Calcium**	526	mg/L	0.100	0.069		X521099	JRR	05/22/25 08:01	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X521099	JRR	05/22/25 08:01	
EPA 200.7	**Cobalt**	0.0923	mg/L	0.0060	0.0046		X521099	JRR	05/22/25 08:01	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X521099	JRR	05/22/25 08:01	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X521099	JRR	05/22/25 08:01	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X521099	JRR	05/22/25 08:01	
EPA 200.7	**Lithium**	0.345	mg/L	0.040	0.025		X521099	JRR	05/22/25 08:01	
EPA 200.7	**Magnesium**	344	mg/L	0.500	0.090		X521099	JRR	05/22/25 08:01	
EPA 200.7	**Manganese**	105	mg/L	0.0400	0.0170	5	X521099	JRR	05/22/25 09:08	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X521099	JRR	05/22/25 08:01	
EPA 200.7	**Nickel**	0.492	mg/L	0.0100	0.0048		X521099	JRR	05/22/25 08:01	
EPA 200.7	**Potassium**	4.72	mg/L	0.50	0.18		X521099	JRR	05/22/25 08:01	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X521099	JRR	05/22/25 08:01	
EPA 200.7	**Sodium**	46.7	mg/L	0.50	0.12		X521099	JRR	05/22/25 08:01	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X521099	JRR	05/22/25 08:01	
EPA 200.7	**Zinc**	12.5	mg/L	0.0100	0.0054		X521099	JRR	05/22/25 08:01	
EPA 200.8	Antimony	< 0.0100	mg/L	0.0100	0.00720	10	X521234	JRR	05/28/25 09:52	D17
EPA 200.8	Arsenic	< 0.0100	mg/L	0.0100	0.00210	10	X521234	JRR	05/28/25 09:52	D17
EPA 200.8	**Selenium**	0.0153	mg/L	0.0100	0.00240	10	X521234	JRR	05/28/25 09:52	D17
EPA 200.8	Thallium	< 0.00200	mg/L	0.00200	0.000800	10	X521234	JRR	05/28/25 09:52	D17
EPA 200.8	**Uranium**	0.0513	mg/L	0.00100	0.000520	10	X521234	JRR	05/28/25 09:52	D17
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X521202	MAC	05/23/25 15:27	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X521121	JPM	05/22/25 16:57	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X522003	JPM	05/28/25 16:15	M2,R2B
EPA 350.1	**Ammonia as N**	0.047	mg/L	0.030	0.013		X522051	JPM	05/29/25 17:15	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X521122	JPM	05/21/25 16:48	M2
SM 2310 B	**Acidity to pH 8.3**	-200	mg/L as CaCO3	10.0			X523019	MWD	06/02/25 15:43	
SM 2320 B	**Total Alkalinity**	197	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 14:18	
SM 2320 B	**Bicarbonate**	197	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 14:18	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 14:18	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 14:18	
SM 2540 C	**Total Diss. Solids**	4230	mg/L	40			X521130	TJL	05/22/25 13:45	
SM 2540 D	**Total Susp. Solids**	19.0	mg/L	5.0			X521131	TJL	05/23/25 16:00	
SM 4500 H B	**pH @20.1°C**	5.9	pH Units				X521076	MWD	05/21/25 14:18	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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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: **X5E0287**
Reported: 04-Jun-25 15:17

Client Sample ID: **GVMW-34**
SVL Sample ID: **X5E0287-02 (Ground Water)**

Sampled: 19-May-25 13:45
Received: 20-May-25
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	27.5	mg/L	10.0	1.10	50	X521080	RS	05/20/25 23:58	
EPA 300.0	**Fluoride**	33.1	mg/L	10.0	1.70	100	X521080	RS	05/21/25 17:57	
EPA 300.0	**Nitrate as N**	10.4	mg/L	2.50	0.650	50	X521080	RS	05/20/25 23:58	
EPA 300.0	**Nitrate+Nitrite as N**	10.4	mg/L	5.00	2.20	50	X521080	RS	05/20/25 23:58	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X521080	RS	05/20/25 23:43	
EPA 300.0	**Sulfate as SO4**	2730	mg/L	30.0	18.0	100	X521080	RS	05/21/25 17:57	

Cation/Anion Balance and TDS Ratios

Cation Sum: 63.7 meq/L Anion Sum: 64.0 meq/L C/A Balance: -0.28 % Calculated TDS: 3925 TDS/cTDS: 1.08

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: **X5E0287**
Reported: 04-Jun-25 15:17

Client Sample ID: **GVMW-10**
SVL Sample ID: **X5E0287-03 (Ground Water)**

Sampled: 19-May-25 11:02
Received: 20-May-25
Sampled By: JC

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**	317	mg/L	0.100	0.069		X521167	SJN	05/29/25 13:13	
EPA 200.7	**Magnesium**	131	mg/L	0.500	0.090		X521167	SJN	05/29/25 13:13	
EPA 200.7	**Potassium**	2.43	mg/L	0.50	0.18		X521167	SJN	05/29/25 13:13	
SM 2340 B	**Hardness (as CaCO3)**	1330	mg/L	2.31	0.543		N/A		05/22/25 08:04	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	0.122	mg/L	0.080	0.054		X521099	JRR	05/22/25 08:04	
EPA 200.7	**Barium**	0.0187	mg/L	0.0020	0.0019		X521099	JRR	05/22/25 08:04	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X521099	JRR	05/22/25 08:04	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X521099	SJN	05/22/25 13:06	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X521099	JRR	05/22/25 08:04	
EPA 200.7	**Calcium**	300	mg/L	0.100	0.069		X521099	JRR	05/22/25 08:04	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X521099	JRR	05/22/25 08:04	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X521099	JRR	05/22/25 08:04	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X521099	JRR	05/22/25 08:04	
EPA 200.7	**Iron**	0.140	mg/L	0.100	0.056		X521099	JRR	05/22/25 08:04	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X521099	JRR	05/22/25 08:04	
EPA 200.7	**Lithium**	0.088	mg/L	0.040	0.025		X521099	JRR	05/22/25 08:04	
EPA 200.7	**Magnesium**	124	mg/L	0.500	0.090		X521099	JRR	05/22/25 08:04	
EPA 200.7	**Manganese**	2.10	mg/L	0.0080	0.0034		X521099	JRR	05/22/25 08:04	
EPA 200.7	**Molybdenum**	0.0443	mg/L	0.0080	0.0034		X521099	JRR	05/22/25 08:04	
EPA 200.7	**Nickel**	0.0121	mg/L	0.0100	0.0048		X521099	JRR	05/22/25 08:04	
EPA 200.7	**Potassium**	2.34	mg/L	0.50	0.18		X521099	JRR	05/22/25 08:04	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X521099	JRR	05/22/25 08:04	
EPA 200.7	**Sodium**	47.5	mg/L	0.50	0.12		X521099	JRR	05/22/25 08:04	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X521099	JRR	05/22/25 08:04	
EPA 200.7	**Zinc**	0.0998	mg/L	0.0100	0.0054		X521099	JRR	05/22/25 08:04	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X521234	JRR	05/28/25 07:50	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X521234	JRR	05/28/25 07:50	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X521234	JRR	05/28/25 07:50	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X521234	JRR	05/28/25 07:50	
EPA 200.8	**Uranium**	0.0396	mg/L	0.000100	0.000052		X521234	JRR	05/28/25 07:50	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X521202	MAC	05/23/25 15:29	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X521121	JPM	05/22/25 17:00	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X522003	JPM	05/28/25 16:25	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X522051	JPM	05/29/25 17:18	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X521122	JPM	05/21/25 16:50	
SM 2310 B	**Acidity to pH 8.3**	-315	mg/L as CaCO3	10.0			X523019	MWD	06/02/25 15:43	
SM 2320 B	**Total Alkalinity**	314	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 14:23	
SM 2320 B	**Bicarbonate**	314	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 14:23	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 14:23	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 14:23	
SM 2540 C	**Total Diss. Solids**	1880	mg/L	40			X521130	TJL	05/22/25 13:45	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X521131	TJL	05/23/25 16:00	
SM 4500 H B	**pH @20.1°C**	7.2	pH Units				X521076	MWD	05/21/25 14:23	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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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: **X5E0287**
Reported: 04-Jun-25 15:17

Client Sample ID: **GVMW-10**
SVL Sample ID: **X5E0287-03 (Ground Water)**

Sampled: 19-May-25 11:02
Received: 20-May-25
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	5.53	mg/L	0.20	0.02		X521080	RS	05/21/25 00:14	
EPA 300.0	**Fluoride**	1.16	mg/L	0.100	0.017		X521080	RS	05/21/25 17:27	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X521080	RS	05/21/25 00:14	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X521080	RS	05/21/25 00:14	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X521080	RS	05/21/25 00:14	
EPA 300.0	**Sulfate as SO4**	1100	mg/L	15.0	9.00	50	X521080	RS	05/21/25 00:29	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 27.4 meq/L Anion Sum: 29.4 meq/L C/A Balance: -3.49 % Calculated TDS: 1781 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

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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: **X5E0287**
Reported: 04-Jun-25 15:17

Client Sample ID: **EMP-17A**
SVL Sample ID: **X5E0287-04 (Ground Water)**

Sampled: 19-May-25 12:25
Received: 20-May-25
Sampled By: MB

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**	61.5	mg/L	0.100	0.069		X521167	SJN	05/29/25 13:17	
EPA 200.7	**Magnesium**	11.5	mg/L	0.500	0.090		X521167	SJN	05/29/25 13:17	
EPA 200.7	**Potassium**	6.65	mg/L	0.50	0.18		X521167	SJN	05/29/25 13:17	
SM 2340 B	**Hardness (as CaCO3)**	197	mg/L	2.31	0.543		N/A		05/22/25 08:08	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	4.41	mg/L	0.080	0.054		X521099	JRR	05/22/25 08:08	
EPA 200.7	**Barium**	0.0440	mg/L	0.0020	0.0019		X521099	JRR	05/22/25 08:08	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X521099	JRR	05/22/25 08:08	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X521099	SJN	05/22/25 13:16	
EPA 200.7	**Cadmium**	0.0105	mg/L	0.0020	0.0016		X521099	JRR	05/22/25 08:08	
EPA 200.7	**Calcium**	59.8	mg/L	0.100	0.069		X521099	JRR	05/22/25 08:08	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X521099	JRR	05/22/25 08:08	
EPA 200.7	**Cobalt**	0.0462	mg/L	0.0060	0.0046		X521099	JRR	05/22/25 08:08	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X521099	JRR	05/22/25 08:08	
EPA 200.7	**Iron**	0.186	mg/L	0.100	0.056		X521099	JRR	05/22/25 08:08	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X521099	JRR	05/22/25 08:08	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X521099	JRR	05/22/25 08:08	
EPA 200.7	**Magnesium**	11.2	mg/L	0.500	0.090		X521099	JRR	05/22/25 08:08	
EPA 200.7	**Manganese**	9.40	mg/L	0.0080	0.0034		X521099	JRR	05/22/25 08:08	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X521099	JRR	05/22/25 08:08	
EPA 200.7	**Nickel**	0.0269	mg/L	0.0100	0.0048		X521099	JRR	05/22/25 08:08	
EPA 200.7	**Potassium**	6.57	mg/L	0.50	0.18		X521099	JRR	05/22/25 08:08	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X521099	JRR	05/22/25 08:08	
EPA 200.7	**Sodium**	3.62	mg/L	0.50	0.12		X521099	JRR	05/22/25 08:08	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X521099	JRR	05/22/25 08:08	
EPA 200.7	**Zinc**	0.882	mg/L	0.0100	0.0054		X521099	JRR	05/22/25 08:08	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X521234	JRR	05/28/25 07:52	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X521234	JRR	05/28/25 07:52	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X521234	JRR	05/28/25 07:52	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X521234	JRR	05/28/25 07:52	
EPA 200.8	**Uranium**	0.00102	mg/L	0.000100	0.000052		X521234	JRR	05/28/25 07:52	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X521202	MAC	05/23/25 15:31	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X521121	JPM	05/22/25 17:03	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X522003	JPM	05/28/25 16:27	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X522051	JPM	05/29/25 17:20	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X521122	JPM	05/21/25 16:53	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X523019	MWD	06/02/25 15:43	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 14:29	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 14:29	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 14:29	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 14:29	
SM 2540 C	**Total Diss. Solids**	395	mg/L	10			X521130	TJL	05/22/25 13:45	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X521131	TJL	05/23/25 16:00	
SM 4500 H B	**pH @20.2°C**	5.4	pH Units				X521076	MWD	05/21/25 14:29	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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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: **X5E0287**
Reported: 04-Jun-25 15:17

Client Sample ID: **EMP-17A**
SVL Sample ID: **X5E0287-04 (Ground Water)**

Sampled: 19-May-25 12:25
Received: 20-May-25
Sampled By: MB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	2.65	mg/L	0.20	0.02		X521080	RS	05/21/25 01:15	
EPA 300.0	**Fluoride**	5.37	mg/L	0.100	0.017		X521080	RS	05/21/25 01:15	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X521080	RS	05/21/25 01:15	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X521080	RS	05/21/25 01:15	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X521080	RS	05/21/25 01:15	
EPA 300.0	**Sulfate as SO4**	249	mg/L	3.00	1.80	10	X521080	RS	05/21/25 01:31	

Cation/Anion Balance and TDS Ratios

Cation Sum: 5.10 meq/L Anion Sum: 5.56 meq/L C/A Balance: -4.33 % Calculated TDS: 339 TDS/cTDS: 1.16

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: **X5E0287**
Reported: 04-Jun-25 15:17

Client Sample ID: **GV-4.5**
SVL Sample ID: **X5E0287-05 (Surface Water)**

Sampled: 19-May-25 10:33
Received: 20-May-25
Sampled By: MB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 1631E	**Mercury**	2.27	ng/L	0.500	0.120		X522037	MAC	05/30/25 14:43	
EPA 245.1	Mercury	< 0.000093	mg/L	0.000200	0.000093		X521199	MAC	05/22/25 17:24	U
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Barium**	0.168	mg/L	0.0020	0.0019		X521167	MAC	06/03/25 08:24	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X521167	SJN	05/29/25 13:43	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X521167	MAC	06/03/25 08:24	
EPA 200.7	**Calcium**	46.2	mg/L	0.100	0.069		X521167	SJN	05/29/25 13:43	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X521167	SJN	05/29/25 13:43	
EPA 200.7	**Iron**	34.5	mg/L	0.100	0.056		X521167	SJN	05/29/25 13:43	
EPA 200.7	**Magnesium**	11.4	mg/L	0.500	0.090		X521167	SJN	05/29/25 13:43	
EPA 200.7	**Manganese**	1.13	mg/L	0.0080	0.0034		X521167	SJN	05/29/25 13:43	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X521167	SJN	05/29/25 13:43	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X521167	SJN	05/29/25 13:43	
EPA 200.7	**Phosphorus**	0.465	mg/L	0.050	0.013		X521167	SJN	05/29/25 13:43	
EPA 200.7	**Potassium**	2.15	mg/L	0.50	0.18		X521167	SJN	05/29/25 13:43	
EPA 200.7	**Sodium**	13.9	mg/L	0.50	0.12		X521167	SJN	05/29/25 13:43	
EPA 200.7	**Zinc**	0.0294	mg/L	0.0100	0.0054		X521167	SJN	05/29/25 13:43	
EPA 200.8	Antimony	< 0.00200	mg/L	0.00200	0.00144	2	X521176	JRR	05/30/25 07:57	D14
EPA 200.8	**Arsenic**	0.00207	mg/L	0.00200	0.00042	2	X521176	JRR	05/30/25 07:57	D14
EPA 200.8	Cadmium	< 0.000200	mg/L	0.000200	0.000126	2	X521176	JRR	05/30/25 07:57	D14
EPA 200.8	**Chromium**	0.00419	mg/L	0.00200	0.00034	2	X521176	JRR	05/30/25 07:57	D14
EPA 200.8	**Copper**	0.00570	mg/L	0.00080	0.00072	2	X521176	JRR	05/30/25 07:57	D14
EPA 200.8	**Lead**	0.00381	mg/L	0.00040	0.00028	2	X521176	JRR	05/30/25 07:57	D14
EPA 200.8	**Selenium**	0.00206	mg/L	0.00200	0.00048	2	X521176	JRR	05/30/25 07:57	D14
SM 2340 B	**Hardness (as CaC03)**	149	mg/L	2.31	0.543		N/A		05/22/25 08:11	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X521099	JRR	05/22/25 08:11	
EPA 200.7	**Barium**	0.0782	mg/L	0.0020	0.0019		X521099	JRR	05/22/25 08:11	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X521099	JRR	05/22/25 08:11	
EPA 200.7	**Calcium**	40.9	mg/L	0.100	0.069		X521099	JRR	05/22/25 08:11	
EPA 200.7	**Iron**	0.686	mg/L	0.100	0.056		X521099	JRR	05/22/25 08:11	
EPA 200.7	**Magnesium**	9.15	mg/L	0.500	0.090		X521099	JRR	05/22/25 08:11	
EPA 200.7	**Manganese**	0.329	mg/L	0.0080	0.0034		X521099	JRR	05/22/25 08:11	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X521099	JRR	05/22/25 08:11	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X521099	JRR	05/22/25 08:11	
EPA 200.7	**Potassium**	1.01	mg/L	0.50	0.18		X521099	JRR	05/22/25 08:11	
EPA 200.7	**Sodium**	12.9	mg/L	0.50	0.12		X521099	JRR	05/22/25 08:11	
EPA 200.7	**Zinc**	0.0101	mg/L	0.0100	0.0054		X521099	JRR	05/22/25 08:11	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X521234	JRR	05/28/25 07:55	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X521234	JRR	05/28/25 07:55	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X521234	JRR	05/28/25 07:55	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X521234	JRR	05/28/25 07:55	
EPA 200.8	Copper	< 0.00040	mg/L	0.00040	0.00036		X521234	JRR	05/28/25 07:55	
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X521234	JRR	05/28/25 07:55	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X521234	JRR	05/28/25 07:55	
EPA 200.8	Silver	< 0.00008	mg/L	0.00008	0.000061		X521234	JRR	05/28/25 07:55	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X521234	JRR	05/28/25 07:55	
EPA 200.8	**Uranium**	0.000523	mg/L	0.000100	0.000052		X521234	JRR	05/28/25 07:55	

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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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: **X5E0287**
Reported: 04-Jun-25 15:17

Client Sample ID: **GV-4.5**
SVL Sample ID: **X5E0287-05 (Surface Water)**

Sampled: 19-May-25 10:33
Received: 20-May-25
Sampled By: MB

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		X521121	JPM	05/22/25 17:06	
Calculation	Chromium(III)	< 0.0110	mg/L	0.0110	0.00390		N/A		05/29/25 13:43	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X522003	JPM	05/28/25 16:29	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X522051	JPM	05/29/25 17:23	
EPA 351.2	**TKN**	0.62	mg/L	0.50	0.31		X521115	ORW	05/28/25 11:58	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X521122	JPM	05/21/25 16:56	
SM 2310 B	**Acidity to pH 8.3**	-81.1	mg/L as CaCO3	10.0			X523019	MWD	06/02/25 15:43	
SM 2320 B	**Total Alkalinity**	78.7	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 14:41	
SM 2320 B	**Bicarbonate**	78.7	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 14:41	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 14:41	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 14:41	
SM 2540 C	**Total Diss. Solids**	231	mg/L	10			X521130	TJL	05/22/25 13:45	
SM 2540 D	**Total Susp. Solids**	44.0	mg/L	5.0			X521131	TJL	05/23/25 16:00	
SM 4500 H B	**pH @20.3°C**	6.8	pH Units				X521076	MWD	05/21/25 14:41	H5
SM 4500 S D	Sulfide	< 0.050	mg/L	0.050	0.020		X521247	CND	05/23/25 13:08	
SM 4500-O-G	**Dissolved Oxygen**	6.3	mg/L	0.1			X522023	TJL	05/29/25 13:50	H3
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	< 0.0050	mg/L	0.0050	0.0019		X521023	CND	05/21/25 15:05	
Filtered Classical Chemistry Parameters										
Calculation	Chromium(III)-Dissolved	< 0.00600	mg/L	0.00600	0.00207		N/A		05/28/25 07:55	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	27.5	mg/L	2.00	0.22	10	X521080	RS	05/21/25 02:01	
EPA 300.0	**Fluoride**	0.449	mg/L	0.100	0.017		X521080	RS	05/21/25 01:46	
EPA 300.0	**Nitrate as N**	0.372	mg/L	0.050	0.013		X521080	RS	05/21/25 01:46	
EPA 300.0	**Nitrate+Nitrite as N**	0.376	mg/L	0.100	0.044		X521080	RS	05/21/25 01:46	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X521080	RS	05/21/25 01:46	
EPA 300.0	**Sulfate as SO4**	61.7	mg/L	3.00	1.80	10	X521080	RS	05/21/25 02:01	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.43 meq/L Anion Sum: 3.68 meq/L C/A Balance: -3.62 % Calculated TDS: 207 TDS/cTDS: 1.11

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

Kristi A. Groth

Kristi A. Groth
Project Manager

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

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X5E0287**
Reported: 04-Jun-25 15:17

Client Sample ID: **GV-05**
SVL Sample ID: **X5E0287-06 (Surface Water)**

Sampled: 19-May-25 11:05
Received: 20-May-25
Sampled By: MB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 1631E	**Mercury**	1.58	ng/L	0.500	0.120		X522037	MAC	05/30/25 14:48	
EPA 245.1	Mercury	< 0.000093	mg/L	0.000200	0.000093		X521199	MAC	05/22/25 17:26	U
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Barium**	0.0367	mg/L	0.0020	0.0019		X521167	MAC	06/03/25 08:36	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X521167	SJN	05/29/25 13:54	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X521167	MAC	06/03/25 08:36	
EPA 200.7	**Calcium**	39.5	mg/L	0.100	0.069		X521167	SJN	05/29/25 13:54	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X521167	SJN	05/29/25 13:54	
EPA 200.7	**Iron**	0.691	mg/L	0.100	0.056		X521167	SJN	05/29/25 13:54	
EPA 200.7	**Magnesium**	9.38	mg/L	0.500	0.090		X521167	SJN	05/29/25 13:54	
EPA 200.7	**Manganese**	0.401	mg/L	0.0080	0.0034		X521167	SJN	05/29/25 13:54	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X521167	SJN	05/29/25 13:54	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X521167	SJN	05/29/25 13:54	
EPA 200.7	Phosphorus	< 0.050	mg/L	0.050	0.013		X521167	SJN	05/29/25 13:54	
EPA 200.7	**Potassium**	1.21	mg/L	0.50	0.18		X521167	SJN	05/29/25 13:54	
EPA 200.7	**Sodium**	14.0	mg/L	0.50	0.12		X521167	SJN	05/29/25 13:54	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X521167	SJN	05/29/25 13:54	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X521176	JRR	05/30/25 07:59	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X521176	JRR	05/30/25 07:59	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X521176	JRR	05/30/25 07:59	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X521176	JRR	05/30/25 07:59	
EPA 200.8	Copper	< 0.00040	mg/L	0.00040	0.00036		X521176	JRR	05/30/25 07:59	
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X521176	JRR	05/30/25 07:59	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X521176	JRR	05/30/25 07:59	
SM 2340 B	**Hardness (as CaC03)**	135	mg/L	2.31	0.543		N/A		05/29/25 13:54	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X521099	JRR	05/22/25 08:29	
EPA 200.7	**Barium**	0.0310	mg/L	0.0020	0.0019		X521099	JRR	05/22/25 08:29	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X521099	JRR	05/22/25 08:29	
EPA 200.7	**Calcium**	37.9	mg/L	0.100	0.069		X521099	JRR	05/22/25 08:29	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X521099	JRR	05/22/25 08:29	
EPA 200.7	**Magnesium**	8.90	mg/L	0.500	0.090		X521099	JRR	05/22/25 08:29	
EPA 200.7	**Manganese**	0.289	mg/L	0.0080	0.0034		X521099	JRR	05/22/25 08:29	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X521099	JRR	05/22/25 08:29	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X521099	JRR	05/22/25 08:29	
EPA 200.7	**Potassium**	1.15	mg/L	0.50	0.18		X521099	JRR	05/22/25 08:29	
EPA 200.7	**Sodium**	13.7	mg/L	0.50	0.12		X521099	JRR	05/22/25 08:29	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X521099	JRR	05/22/25 08:29	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X521234	JRR	05/28/25 07:57	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X521234	JRR	05/28/25 07:57	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X521234	JRR	05/28/25 07:57	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X521234	JRR	05/28/25 07:57	
EPA 200.8	Copper	< 0.00040	mg/L	0.00040	0.00036		X521234	JRR	05/28/25 07:57	
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X521234	JRR	05/28/25 07:57	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X521234	JRR	05/28/25 07:57	
EPA 200.8	Silver	< 0.00008	mg/L	0.00008	0.000061		X521234	JRR	05/28/25 07:57	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X521234	JRR	05/28/25 07:57	
EPA 200.8	**Uranium**	0.000508	mg/L	0.000100	0.000052		X521234	JRR	05/28/25 07:57	

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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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: **X5E0287**
Reported: 04-Jun-25 15:17

Client Sample ID: **GV-05**
SVL Sample ID: **X5E0287-06 (Surface Water)**

Sampled: 19-May-25 11:05
Received: 20-May-25
Sampled By: MB

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		X521121	JPM	05/22/25 17:22	
Calculation	Chromium(III)	< 0.0110	mg/L	0.0110	0.00390		N/A		05/29/25 13:54	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X522003	JPM	05/28/25 16:31	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X522051	JPM	05/29/25 17:25	
EPA 351.2	**TKN**	0.73	mg/L	0.50	0.31		X521115	ORW	05/28/25 12:00	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X521122	JPM	05/21/25 16:59	
SM 2310 B	**Acidity to pH 8.3**	-71.5	mg/L as CaCO3	10.0			X523019	MWD	06/02/25 15:43	
SM 2320 B	**Total Alkalinity**	73.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 14:47	
SM 2320 B	**Bicarbonate**	73.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 14:47	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 14:47	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 14:47	
SM 2540 C	**Total Diss. Solids**	233	mg/L	10			X521130	TJL	05/22/25 13:45	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X521131	TJL	05/23/25 16:00	
SM 4500 H B	**pH @20.3°C**	7.8	pH Units				X521076	MWD	05/21/25 14:47	H5
SM 4500 S D	Sulfide	< 0.050	mg/L	0.050	0.020		X521247	CND	05/23/25 13:09	
SM 4500-O-G	**Dissolved Oxygen**	5.9	mg/L	0.1			X522023	TJL	05/29/25 13:50	H3
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	< 0.0050	mg/L	0.0050	0.0019		X521023	CND	05/21/25 15:05	
Filtered Classical Chemistry Parameters										
Calculation	Chromium(III)-Dissolved	< 0.00600	mg/L	0.00600	0.00207		N/A		05/28/25 07:57	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	10.4	mg/L	0.20	0.02		X521080	RS	05/21/25 02:17	
EPA 300.0	**Fluoride**	0.594	mg/L	0.100	0.017		X521080	RS	05/21/25 02:17	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X521080	RS	05/21/25 02:17	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X521080	RS	05/21/25 02:17	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X521080	RS	05/21/25 02:17	
EPA 300.0	**Sulfate as SO4**	81.3	mg/L	3.00	1.80	10	X521080	RS	05/21/25 02:32	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.27 meq/L Anion Sum: 3.48 meq/L C/A Balance: -3.11 % Calculated TDS: 199 TDS/cTDS: 1.17

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: **X5E0287**
Reported: 04-Jun-25 15:17

Client Sample ID: **GV-06**
SVL Sample ID: **X5E0287-07 (Surface Water)**

Sampled: 19-May-25 10:00
Received: 20-May-25
Sampled By: MB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 1631E	**Mercury**	1.71	ng/L	0.500	0.120		X522037	MAC	05/30/25 14:53	
EPA 245.1	Mercury	< 0.000093	mg/L	0.000200	0.000093		X521199	MAC	05/22/25 17:29	U
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Barium**	0.0746	mg/L	0.0020	0.0019		X521167	MAC	06/03/25 08:41	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X521167	SJN	05/29/25 13:58	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X521167	MAC	06/03/25 08:41	
EPA 200.7	**Calcium**	41.1	mg/L	0.100	0.069		X521167	SJN	05/29/25 13:58	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X521167	SJN	05/29/25 13:58	
EPA 200.7	**Iron**	0.820	mg/L	0.100	0.056		X521167	SJN	05/29/25 13:58	
EPA 200.7	**Magnesium**	8.96	mg/L	0.500	0.090		X521167	SJN	05/29/25 13:58	
EPA 200.7	**Manganese**	0.644	mg/L	0.0080	0.0034		X521167	SJN	05/29/25 13:58	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X521167	SJN	05/29/25 13:58	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X521167	SJN	05/29/25 13:58	
EPA 200.7	Phosphorus	< 0.050	mg/L	0.050	0.013		X521167	SJN	05/29/25 13:58	
EPA 200.7	**Potassium**	1.15	mg/L	0.50	0.18		X521167	SJN	05/29/25 13:58	
EPA 200.7	**Sodium**	17.3	mg/L	0.50	0.12		X521167	SJN	05/29/25 13:58	
EPA 200.7	**Zinc**	0.0108	mg/L	0.0100	0.0054		X521167	SJN	05/29/25 13:58	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X521176	JRR	05/30/25 08:07	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X521176	JRR	05/30/25 08:07	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X521176	JRR	05/30/25 08:07	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X521176	JRR	05/30/25 08:07	
EPA 200.8	Copper	< 0.00040	mg/L	0.00040	0.00036		X521176	JRR	05/30/25 08:07	
EPA 200.8	**Lead**	0.00040	mg/L	0.00020	0.00014		X521176	JRR	05/30/25 08:07	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X521176	JRR	05/30/25 08:07	
SM 2340 B	**Hardness (as CaC03)**	133	mg/L	2.31	0.543		N/A		05/22/25 08:33	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X521099	JRR	05/22/25 08:33	
EPA 200.7	**Barium**	0.0590	mg/L	0.0020	0.0019		X521099	JRR	05/22/25 08:33	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X521099	JRR	05/22/25 08:33	
EPA 200.7	**Calcium**	38.5	mg/L	0.100	0.069		X521099	JRR	05/22/25 08:33	
EPA 200.7	**Iron**	0.142	mg/L	0.100	0.056		X521099	JRR	05/22/25 08:33	
EPA 200.7	**Magnesium**	8.19	mg/L	0.500	0.090		X521099	JRR	05/22/25 08:33	
EPA 200.7	**Manganese**	0.566	mg/L	0.0080	0.0034		X521099	JRR	05/22/25 08:33	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X521099	JRR	05/22/25 08:33	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X521099	JRR	05/22/25 08:33	
EPA 200.7	**Potassium**	1.04	mg/L	0.50	0.18		X521099	JRR	05/22/25 08:33	
EPA 200.7	**Sodium**	16.5	mg/L	0.50	0.12		X521099	JRR	05/22/25 08:33	
EPA 200.7	**Zinc**	0.0113	mg/L	0.0100	0.0054		X521099	JRR	05/22/25 08:33	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X521234	JRR	05/28/25 08:00	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X521234	JRR	05/28/25 08:00	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X521234	JRR	05/28/25 08:00	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X521234	JRR	05/28/25 08:00	
EPA 200.8	Copper	< 0.00040	mg/L	0.00040	0.00036		X521234	JRR	05/28/25 08:00	
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X521234	JRR	05/28/25 08:00	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X521234	JRR	05/28/25 08:00	
EPA 200.8	Silver	< 0.00008	mg/L	0.00008	0.000061		X521234	JRR	05/28/25 08:00	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X521234	JRR	05/28/25 08:00	
EPA 200.8	**Uranium**	0.000526	mg/L	0.000100	0.000052		X521234	JRR	05/28/25 08:00	

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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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: **X5E0287**
Reported: 04-Jun-25 15:17

Client Sample ID: **GV-06**
SVL Sample ID: **X5E0287-07 (Surface Water)**

Sampled: 19-May-25 10:00
Received: 20-May-25
Sampled By: MB

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		X521121	JPM	05/22/25 17:24	
Calculation	Chromium(III)	< 0.0110	mg/L	0.0110	0.00390		N/A		05/29/25 13:58	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X522003	JPM	05/28/25 16:33	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X522051	JPM	05/29/25 17:28	
EPA 351.2	TKN	< 0.50	mg/L	0.50	0.31		X521115	ORW	05/28/25 12:03	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X521122	JPM	05/21/25 17:02	
SM 2310 B	**Acidity to pH 8.3**	-71.5	mg/L as CaCO3	10.0			X523019	MWD	06/02/25 15:43	
SM 2320 B	**Total Alkalinity**	69.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 14:52	
SM 2320 B	**Bicarbonate**	69.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 14:52	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 14:52	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 14:52	
SM 2540 C	**Total Diss. Solids**	240	mg/L	10			X521130	TJL	05/22/25 13:45	
SM 2540 D	**Total Susp. Solids**	5.0	mg/L	5.0			X521131	TJL	05/23/25 16:00	
SM 4500 H B	**pH @20.3°C**	7.6	pH Units				X521076	MWD	05/21/25 14:52	H5
SM 4500 S D	Sulfide	< 0.050	mg/L	0.050	0.020		X521247	CND	05/23/25 13:11	
SM 4500-O-G	**Dissolved Oxygen**	5.9	mg/L	0.1			X522023	TJL	05/29/25 13:50	H3
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	< 0.0050	mg/L	0.0050	0.0019		X521023	CND	05/21/25 15:05	
Filtered Classical Chemistry Parameters										
Calculation	Chromium(III)-Dissolved	< 0.00600	mg/L	0.00600	0.00207		N/A		05/28/25 08:00	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	9.89	mg/L	0.20	0.02		X521080	RS	05/21/25 02:47	
EPA 300.0	**Fluoride**	0.849	mg/L	0.100	0.017		X521080	RS	05/21/25 02:47	
EPA 300.0	**Nitrate as N**	0.434	mg/L	0.050	0.013		X521080	RS	05/21/25 02:47	
EPA 300.0	**Nitrate+Nitrite as N**	0.434	mg/L	0.100	0.044		X521080	RS	05/21/25 02:47	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X521080	RS	05/21/25 02:47	
EPA 300.0	**Sulfate as SO4**	89.4	mg/L	3.00	1.80	10	X521080	RS	05/21/25 03:03	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.37 meq/L Anion Sum: 3.59 meq/L C/A Balance: -3.18 % Calculated TDS: 210 TDS/cTDS: 1.14

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

Kristi A. Groth

Kristi A. Groth
Project Manager

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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: **X5E0287**
Reported: 04-Jun-25 15:17

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	X522037	30-May-25	
EPA 1631E	Mercury	ng/L	<0.500	0.120	0.500	X522037	30-May-25	
EPA 1631E	Mercury	ng/L	<0.500	0.120	0.500	X522037	30-May-25	
EPA 245.1	Mercury	mg/L	<0.000093	0.000093	0.000200	X521199	22-May-25	U
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X521167	03-Jun-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X521167	29-May-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X521167	03-Jun-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X521167	29-May-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X521167	29-May-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X521167	29-May-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X521167	29-May-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X521167	29-May-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X521167	29-May-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X521167	29-May-25	
EPA 200.7	Phosphorus	mg/L	<0.050	0.013	0.050	X521167	29-May-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X521167	29-May-25	
EPA 200.7	Sodium	mg/L	<0.12	0.12	0.50	X521167	29-May-25	U
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X521167	29-May-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X521176	30-May-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X521176	30-May-25	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X521176	30-May-25	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X521176	30-May-25	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X521176	30-May-25	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X521176	30-May-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X521176	30-May-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X521099	22-May-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X521099	22-May-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X521099	22-May-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X521099	22-May-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X521099	22-May-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X521099	22-May-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X521099	22-May-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X521099	22-May-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X521099	22-May-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X521099	22-May-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X521099	22-May-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X521099	22-May-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X521099	22-May-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X521099	22-May-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X521099	22-May-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X521099	22-May-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X521099	22-May-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X521099	22-May-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X521099	22-May-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X521099	22-May-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X521099	22-May-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X521234	28-May-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X521234	28-May-25	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X521234	28-May-25	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X521234	28-May-25	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X521234	28-May-25	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X521234	28-May-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X521234	28-May-25	
EPA 200.8	Silver	mg/L	<0.00008	0.000061	0.00008	X521234	28-May-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: **X5E0287**
Reported: 04-Jun-25 15:17

Quality Control - BLANK Data (Continued)

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Dissolved) (Continued)								
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X521234	28-May-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X521234	28-May-25	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X521202	23-May-25	
Classical Chemistry Parameters								
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X521121	22-May-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X522003	28-May-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X522051	29-May-25	
EPA 351.2	TKN	mg/L	<0.50	0.31	0.50	X521115	28-May-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X521122	21-May-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X523019	02-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X521076	21-May-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X521076	21-May-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X521076	21-May-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X521076	21-May-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X521130	22-May-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X521131	23-May-25	
SM 4500 S D	Sulfide	mg/L	<0.050	0.020	0.050	X521247	23-May-25	
Dissolved Classical Chemistry Parameters								
SM 3500 Cr B	Hexavalent Chromium	mg/L	<0.0050	0.0019	0.0050	X521023	21-May-25	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X521080	20-May-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X521080	21-May-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X521080	20-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X521080	20-May-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X521080	20-May-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X521080	20-May-25	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)									
EPA 1631E	Mercury	ng/L	5.01	5.00	100	77 - 123	X522037	30-May-25	
EPA 245.1	Mercury	mg/L	0.00197	0.00200	98.6	85 - 115	X521199	22-May-25	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Barium	mg/L	1.06	1.00	106	85 - 115	X521167	03-Jun-25	
EPA 200.7	Beryllium	mg/L	0.992	1.00	99.2	85 - 115	X521167	29-May-25	
EPA 200.7	Boron	mg/L	1.05	1.00	105	85 - 115	X521167	03-Jun-25	
EPA 200.7	Calcium	mg/L	19.8	20.0	99	85 - 115	X521167	29-May-25	
EPA 200.7	Chromium	mg/L	0.982	1.00	98.2	85 - 115	X521167	29-May-25	
EPA 200.7	Iron	mg/L	9.86	10.0	98.6	85 - 115	X521167	29-May-25	
EPA 200.7	Magnesium	mg/L	19.5	20.0	97.6	85 - 115	X521167	29-May-25	
EPA 200.7	Manganese	mg/L	0.976	1.00	97.6	85 - 115	X521167	29-May-25	
EPA 200.7	Molybdenum	mg/L	0.995	1.00	99.5	85 - 115	X521167	29-May-25	
EPA 200.7	Nickel	mg/L	0.982	1.00	98.2	85 - 115	X521167	29-May-25	
EPA 200.7	Phosphorus	mg/L	0.999	1.00	99.9	85 - 115	X521167	29-May-25	
EPA 200.7	Potassium	mg/L	19.6	20.0	97.8	85 - 115	X521167	29-May-25	
EPA 200.7	Sodium	mg/L	18.8	19.0	99.1	85 - 115	X521167	29-May-25	

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Cripple Creek & Victor Gold Mining Company
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Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X5E0287**
Reported: 04-Jun-25 15:17

Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136) (Continued)									
EPA 200.7	Zinc	mg/L	0.970	1.00	97.0	85 - 115	X521167	29-May-25	
EPA 200.8	Antimony	mg/L	0.0233	0.0250	93.3	85 - 115	X521176	30-May-25	
EPA 200.8	Arsenic	mg/L	0.0237	0.0250	94.8	85 - 115	X521176	30-May-25	
EPA 200.8	Cadmium	mg/L	0.0232	0.0250	92.9	85 - 115	X521176	30-May-25	
EPA 200.8	Chromium	mg/L	0.0238	0.0250	95.1	85 - 115	X521176	30-May-25	
EPA 200.8	Copper	mg/L	0.0241	0.0250	96.3	85 - 115	X521176	30-May-25	
EPA 200.8	Lead	mg/L	0.0233	0.0250	93.2	85 - 115	X521176	30-May-25	
EPA 200.8	Selenium	mg/L	0.0244	0.0250	97.8	85 - 115	X521176	30-May-25	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.938	1.00	93.8	85 - 115	X521099	22-May-25	
EPA 200.7	Barium	mg/L	0.965	1.00	96.5	85 - 115	X521099	22-May-25	
EPA 200.7	Beryllium	mg/L	0.955	1.00	95.5	85 - 115	X521099	22-May-25	
EPA 200.7	Boron	mg/L	0.995	1.00	99.5	85 - 115	X521099	22-May-25	
EPA 200.7	Cadmium	mg/L	0.948	1.00	94.8	85 - 115	X521099	22-May-25	
EPA 200.7	Calcium	mg/L	18.6	20.0	93.1	85 - 115	X521099	22-May-25	
EPA 200.7	Chromium	mg/L	0.962	1.00	96.2	85 - 115	X521099	22-May-25	
EPA 200.7	Cobalt	mg/L	0.925	1.00	92.5	85 - 115	X521099	22-May-25	
EPA 200.7	Copper	mg/L	0.942	1.00	94.2	85 - 115	X521099	22-May-25	
EPA 200.7	Iron	mg/L	9.30	10.0	93.0	85 - 115	X521099	22-May-25	
EPA 200.7	Lead	mg/L	0.948	1.00	94.8	85 - 115	X521099	22-May-25	
EPA 200.7	Lithium	mg/L	0.914	1.00	91.4	85 - 115	X521099	22-May-25	
EPA 200.7	Magnesium	mg/L	18.4	20.0	91.9	85 - 115	X521099	22-May-25	
EPA 200.7	Manganese	mg/L	0.968	1.00	96.8	85 - 115	X521099	22-May-25	
EPA 200.7	Molybdenum	mg/L	0.943	1.00	94.3	85 - 115	X521099	22-May-25	
EPA 200.7	Nickel	mg/L	0.939	1.00	93.9	85 - 115	X521099	22-May-25	
EPA 200.7	Potassium	mg/L	18.7	20.0	93.6	85 - 115	X521099	22-May-25	
EPA 200.7	Silver	mg/L	0.0470	0.0500	94.0	85 - 115	X521099	22-May-25	
EPA 200.7	Sodium	mg/L	17.9	19.0	94.0	85 - 115	X521099	22-May-25	
EPA 200.7	Vanadium	mg/L	0.964	1.00	96.4	85 - 115	X521099	22-May-25	
EPA 200.7	Zinc	mg/L	0.924	1.00	92.4	85 - 115	X521099	22-May-25	
EPA 200.8	Antimony	mg/L	0.0247	0.0250	98.8	85 - 115	X521234	28-May-25	
EPA 200.8	Arsenic	mg/L	0.0244	0.0250	97.7	85 - 115	X521234	28-May-25	
EPA 200.8	Cadmium	mg/L	0.0248	0.0250	99.0	85 - 115	X521234	28-May-25	
EPA 200.8	Chromium	mg/L	0.0242	0.0250	96.9	85 - 115	X521234	28-May-25	
EPA 200.8	Copper	mg/L	0.0243	0.0250	97.1	85 - 115	X521234	28-May-25	
EPA 200.8	Lead	mg/L	0.0244	0.0250	97.5	85 - 115	X521234	28-May-25	
EPA 200.8	Selenium	mg/L	0.0240	0.0250	96.0	85 - 115	X521234	28-May-25	
EPA 200.8	Silver	mg/L	0.0249	0.0250	99.6	85 - 115	X521234	28-May-25	
EPA 200.8	Thallium	mg/L	0.0245	0.0250	98.0	85 - 115	X521234	28-May-25	
EPA 200.8	Uranium	mg/L	0.0245	0.0250	98.0	85 - 115	X521234	28-May-25	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00201	0.00200	101	85 - 115	X521202	23-May-25	
Classical Chemistry Parameters									
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0997	0.100	99.7	90 - 110	X521121	22-May-25	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.100	103	90 - 110	X522003	28-May-25	
EPA 350.1	Ammonia as N	mg/L	0.914	1.00	91.4	90 - 110	X522051	29-May-25	
EPA 351.2	TKN	mg/L	8.56	8.00	107	90 - 110	X521115	28-May-25	
OIA 1677	Cyanide (WAD)	mg/L	0.106	0.100	106	90 - 110	X521122	21-May-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1170	1180	99.3	95.4 - 104	X523019	02-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.0	9.93	101	94 - 106	X521076	21-May-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	99.5	99.3	100	94 - 106	X521076	21-May-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	416	397	105	94 - 106	X521076	21-May-25	
SM 2540 C	Total Diss. Solids	mg/L	248	250	99.2	85 - 115	X521130	22-May-25	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X521131	23-May-25	

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Ironclad Security 1632 County Rd 82
Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X5E0287**
Reported: 04-Jun-25 15:17

Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Classical Chemistry Parameters (Continued)									
SM 4500 S D	Sulfide	mg/L	0.493	0.500	98.6	85 - 115	X521247	23-May-25	
Dissolved Classical Chemistry Parameters									
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0966	0.100	96.6	80 - 120	X521023	21-May-25	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.94	3.00	97.9	90 - 110	X521080	20-May-25	
EPA 300.0	Fluoride	mg/L	1.98	2.00	98.8	90 - 110	X521080	21-May-25	
EPA 300.0	Nitrate as N	mg/L	1.94	2.00	96.9	90 - 110	X521080	20-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.42	4.50	98.2	90 - 110	X521080	20-May-25	
EPA 300.0	Nitrite as N	mg/L	2.48	2.50	99.2	90 - 110	X521080	20-May-25	
EPA 300.0	Sulfate as SO4	mg/L	9.77	10.0	97.7	90 - 110	X521080	20-May-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	516	516	0.0	20	X523019 - X5E0283-01	02-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	55.4	55.3	0.2	20	X521076 - X5E0240-01	21-May-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	55.4	55.3	0.2	20	X521076 - X5E0240-01	21-May-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X521076 - X5E0240-01	21-May-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X521076 - X5E0240-01	21-May-25	
SM 2540 C	Total Diss. Solids	mg/L	396	387	2.3	10	X521130 - X5E0283-03	22-May-25	
SM 2540 C	Total Diss. Solids	mg/L	399	395	1.0	10	X521130 - X5E0287-04	22-May-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X521131 - X5E0287-04	23-May-25	
SM 2540 D	Total Susp. Solids	mg/L	64.0	26.0	84.4	10	X521131 - X5E0283-04	23-May-25	R2B
SM 4500 H B	pH @19.5°C	pH Units	6.8	6.8	0.9	20	X521076 - X5E0240-01	21-May-25	
SM 4500-O-G	Dissolved Oxygen	mg/L	6.4	6.5	1.6	20	X522023 - X5E0350-01	27-May-25	
SM 4500-O-G	Dissolved Oxygen	mg/L	7.2	7.0	2.8	20	X522023 - X5E0281-01	27-May-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	3.86	1.50	2.50	94.8	71 - 125	X522037 - X5E0300-01	30-May-25	
EPA 1631E	Mercury	ng/L	3.78	1.32	2.50	98.2	71 - 125	X522037 - X5E0345-01	30-May-25	
EPA 245.1	Mercury	mg/L	0.00245	0.000292	0.00200	108	70 - 130	X521199 - X5E0283-01	22-May-25	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	1.22	0.168	1.00	105	70 - 130	X521167 - X5E0287-05	03-Jun-25	
EPA 200.7	Barium	mg/L	1.06	0.0154	1.00	104	70 - 130	X521167 - X5E0328-05	03-Jun-25	
EPA 200.7	Beryllium	mg/L	0.995	<0.00200	1.00	99.5	70 - 130	X521167 - X5E0287-05	29-May-25	
EPA 200.7	Beryllium	mg/L	1.01	<0.00200	1.00	101	70 - 130	X521167 - X5E0328-05	29-May-25	
EPA 200.7	Boron	mg/L	1.09	<0.0400	1.00	107	70 - 130	X521167 - X5E0287-05	03-Jun-25	
EPA 200.7	Boron	mg/L	1.05	<0.0400	1.00	105	70 - 130	X521167 - X5E0328-05	03-Jun-25	
EPA 200.7	Calcium	mg/L	66.8	46.2	20.0	103	70 - 130	X521167 - X5E0287-05	29-May-25	
EPA 200.7	Calcium	mg/L	22.4	2.15	20.0	101	70 - 130	X521167 - X5E0328-05	29-May-25	
EPA 200.7	Chromium	mg/L	1.00	<0.0060	1.00	99.8	70 - 130	X521167 - X5E0287-05	29-May-25	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X5E0287**
Reported: 04-Jun-25 15:17

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 (Total Recoverable--reportable as Total per 40 CFR 136) (Continued)										
EPA 200.7	Chromium	mg/L	1.00	<0.0060	1.00	100	70 - 130	X521167 - X5E0328-05	29-May-25	
EPA 200.7	Iron	mg/L	44.7	34.5	10.0	102	70 - 130	X521167 - X5E0287-05	29-May-25	
EPA 200.7	Iron	mg/L	10.1	<0.100	10.0	101	70 - 130	X521167 - X5E0328-05	29-May-25	
EPA 200.7	Magnesium	mg/L	32.3	11.4	20.0	105	70 - 130	X521167 - X5E0287-05	29-May-25	
EPA 200.7	Magnesium	mg/L	20.6	0.654	20.0	99.9	70 - 130	X521167 - X5E0328-05	29-May-25	
EPA 200.7	Manganese	mg/L	2.10	1.13	1.00	97.5	70 - 130	X521167 - X5E0287-05	29-May-25	
EPA 200.7	Manganese	mg/L	1.00	<0.0080	1.00	99.9	70 - 130	X521167 - X5E0328-05	29-May-25	
EPA 200.7	Molybdenum	mg/L	1.00	<0.0080	1.00	100	70 - 130	X521167 - X5E0287-05	29-May-25	
EPA 200.7	Molybdenum	mg/L	1.02	<0.0080	1.00	102	70 - 130	X521167 - X5E0328-05	29-May-25	
EPA 200.7	Nickel	mg/L	0.993	<0.0100	1.00	98.6	70 - 130	X521167 - X5E0287-05	29-May-25	
EPA 200.7	Nickel	mg/L	1.01	<0.0100	1.00	101	70 - 130	X521167 - X5E0328-05	29-May-25	
EPA 200.7	Phosphorus	mg/L	1.47	0.465	1.00	100	70 - 130	X521167 - X5E0287-05	29-May-25	
EPA 200.7	Phosphorus	mg/L	1.02	<0.050	1.00	102	70 - 130	X521167 - X5E0328-05	29-May-25	
EPA 200.7	Potassium	mg/L	22.5	2.15	20.0	102	70 - 130	X521167 - X5E0287-05	29-May-25	
EPA 200.7	Potassium	mg/L	20.1	<0.50	20.0	99.4	70 - 130	X521167 - X5E0328-05	29-May-25	
EPA 200.7	Sodium	mg/L	33.1	13.9	19.0	101	70 - 130	X521167 - X5E0287-05	29-May-25	
EPA 200.7	Sodium	mg/L	20.1	0.98	19.0	101	70 - 130	X521167 - X5E0328-05	29-May-25	
EPA 200.7	Zinc	mg/L	0.998	0.0294	1.00	96.9	70 - 130	X521167 - X5E0287-05	29-May-25	
EPA 200.7	Zinc	mg/L	0.975	<0.0100	1.00	97.5	70 - 130	X521167 - X5E0328-05	29-May-25	
EPA 200.8	Antimony	mg/L	0.0237	<0.00100	0.0250	91.2	70 - 130	X521176 - X5E0301-02	30-May-25	
EPA 200.8	Antimony	mg/L	0.0229	<0.00100	0.0250	91.6	70 - 130	X521176 - X5E0287-06	30-May-25	
EPA 200.8	Arsenic	mg/L	0.0235	<0.00100	0.0250	92.7	70 - 130	X521176 - X5E0301-02	30-May-25	
EPA 200.8	Arsenic	mg/L	0.0241	<0.00100	0.0250	95.2	70 - 130	X521176 - X5E0287-06	30-May-25	
EPA 200.8	Cadmium	mg/L	0.0225	<0.000100	0.0250	90.2	70 - 130	X521176 - X5E0301-02	30-May-25	
EPA 200.8	Cadmium	mg/L	0.0226	<0.000100	0.0250	90.3	70 - 130	X521176 - X5E0287-06	30-May-25	
EPA 200.8	Chromium	mg/L	0.0244	0.00105	0.0250	93.3	70 - 130	X521176 - X5E0301-02	30-May-25	
EPA 200.8	Chromium	mg/L	0.0240	<0.00100	0.0250	96.1	70 - 130	X521176 - X5E0287-06	30-May-25	
EPA 200.8	Copper	mg/L	0.0277	0.00431	0.0250	93.6	70 - 130	X521176 - X5E0301-02	30-May-25	
EPA 200.8	Copper	mg/L	0.0244	<0.00040	0.0250	97.5	70 - 130	X521176 - X5E0287-06	30-May-25	
EPA 200.8	Lead	mg/L	0.0239	0.00032	0.0250	94.3	70 - 130	X521176 - X5E0301-02	30-May-25	
EPA 200.8	Lead	mg/L	0.0233	<0.00020	0.0250	93.3	70 - 130	X521176 - X5E0287-06	30-May-25	
EPA 200.8	Selenium	mg/L	0.0231	<0.00100	0.0250	92.4	70 - 130	X521176 - X5E0301-02	30-May-25	
EPA 200.8	Selenium	mg/L	0.0237	<0.00100	0.0250	94.9	70 - 130	X521176 - X5E0287-06	30-May-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.922	<0.080	1.00	92.2	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Aluminum	mg/L	0.917	<0.080	1.00	91.7	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Barium	mg/L	0.977	0.0326	1.00	94.5	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Barium	mg/L	0.940	<0.0020	1.00	94.0	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Beryllium	mg/L	0.935	<0.00200	1.00	93.5	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Beryllium	mg/L	0.929	<0.00200	1.00	92.9	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Boron	mg/L	1.07	<0.0400	1.00	104	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Boron	mg/L	0.977	<0.0400	1.00	97.7	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Cadmium	mg/L	0.945	<0.0020	1.00	94.5	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Cadmium	mg/L	0.952	<0.0020	1.00	95.2	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Calcium	mg/L	53.2	34.8	20.0	92.1	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Calcium	mg/L	19.4	0.914	20.0	92.2	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Chromium	mg/L	0.943	<0.0060	1.00	94.3	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Chromium	mg/L	0.940	<0.0060	1.00	94.0	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Cobalt	mg/L	0.914	<0.0060	1.00	91.4	70 - 130	X521099 - X5E0219-01	22-May-25	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X5E0287**
Reported: 04-Jun-25 15:17

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	Cobalt	mg/L	0.923	<0.0060	1.00	92.3	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Copper	mg/L	0.915	<0.0100	1.00	91.5	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Copper	mg/L	0.907	<0.0100	1.00	90.7	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Iron	mg/L	9.25	<0.100	10.0	92.5	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Iron	mg/L	9.18	<0.100	10.0	91.8	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Lead	mg/L	0.948	<0.0075	1.00	94.8	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Lead	mg/L	0.952	<0.0075	1.00	95.2	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Lithium	mg/L	0.934	<0.040	1.00	93.4	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Lithium	mg/L	0.867	<0.040	1.00	86.7	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Magnesium	mg/L	26.3	7.80	20.0	92.6	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Magnesium	mg/L	18.0	<0.500	20.0	90.1	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Manganese	mg/L	0.955	0.0159	1.00	93.9	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Manganese	mg/L	0.952	0.0112	1.00	94.1	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Molybdenum	mg/L	0.940	<0.0080	1.00	94.0	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Molybdenum	mg/L	0.935	<0.0080	1.00	93.5	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Nickel	mg/L	0.925	<0.0100	1.00	92.5	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Nickel	mg/L	0.939	<0.0100	1.00	93.9	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Potassium	mg/L	20.7	2.23	20.0	92.2	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Potassium	mg/L	18.7	<0.50	20.0	92.3	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Silver	mg/L	0.0467	<0.0050	0.0500	93.4	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Silver	mg/L	0.0468	<0.0050	0.0500	93.6	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Sodium	mg/L	42.2	24.9	19.0	91.3	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Sodium	mg/L	18.3	0.74	19.0	92.4	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Vanadium	mg/L	0.950	<0.0050	1.00	94.8	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Vanadium	mg/L	0.936	<0.0050	1.00	93.6	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Zinc	mg/L	0.940	<0.0100	1.00	93.0	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Zinc	mg/L	0.936	<0.0100	1.00	92.9	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.8	Antimony	mg/L	0.0250	<0.00100	0.0250	99.9	70 - 130	X521234 - X5E0246-01	28-May-25	
EPA 200.8	Antimony	mg/L	0.0250	<0.00100	0.0250	100	70 - 130	X521234 - X5E0300-01	28-May-25	
EPA 200.8	Arsenic	mg/L	0.0248	<0.00100	0.0250	99.0	70 - 130	X521234 - X5E0246-01	28-May-25	
EPA 200.8	Arsenic	mg/L	0.0238	<0.00100	0.0250	95.4	70 - 130	X521234 - X5E0300-01	28-May-25	
EPA 200.8	Cadmium	mg/L	0.0246	<0.000100	0.0250	98.5	70 - 130	X521234 - X5E0246-01	28-May-25	
EPA 200.8	Cadmium	mg/L	0.0238	<0.000100	0.0250	95.2	70 - 130	X521234 - X5E0300-01	28-May-25	
EPA 200.8	Chromium	mg/L	0.0246	<0.00100	0.0250	98.2	70 - 130	X521234 - X5E0246-01	28-May-25	
EPA 200.8	Chromium	mg/L	0.0243	<0.00100	0.0250	96.6	70 - 130	X521234 - X5E0300-01	28-May-25	
EPA 200.8	Copper	mg/L	0.0247	<0.00040	0.0250	99.0	70 - 130	X521234 - X5E0246-01	28-May-25	
EPA 200.8	Copper	mg/L	0.0250	0.00046	0.0250	98.3	70 - 130	X521234 - X5E0300-01	28-May-25	
EPA 200.8	Lead	mg/L	0.0244	<0.00020	0.0250	97.4	70 - 130	X521234 - X5E0246-01	28-May-25	
EPA 200.8	Lead	mg/L	0.0244	<0.00020	0.0250	97.5	70 - 130	X521234 - X5E0300-01	28-May-25	
EPA 200.8	Selenium	mg/L	0.0243	<0.00100	0.0250	97.1	70 - 130	X521234 - X5E0246-01	28-May-25	
EPA 200.8	Selenium	mg/L	0.0236	<0.00100	0.0250	94.4	70 - 130	X521234 - X5E0300-01	28-May-25	
EPA 200.8	Silver	mg/L	0.0249	<0.00008	0.0250	99.6	70 - 130	X521234 - X5E0246-01	28-May-25	
EPA 200.8	Silver	mg/L	0.0241	<0.00008	0.0250	96.5	70 - 130	X521234 - X5E0300-01	28-May-25	
EPA 200.8	Thallium	mg/L	0.0245	<0.000200	0.0250	97.8	70 - 130	X521234 - X5E0246-01	28-May-25	
EPA 200.8	Thallium	mg/L	0.0245	<0.000200	0.0250	97.9	70 - 130	X521234 - X5E0300-01	28-May-25	
EPA 200.8	Uranium	mg/L	0.0248	<0.000100	0.0250	99.4	70 - 130	X521234 - X5E0246-01	28-May-25	
EPA 200.8	Uranium	mg/L	0.0259	0.000386	0.0250	102	70 - 130	X521234 - X5E0300-01	28-May-25	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00207	<0.000200	0.00200	104	70 - 130	X521202 - X5E0281-01	23-May-25	

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Ironclad Security 1632 County Rd 82
Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X5E0287**
Reported: 04-Jun-25 15:17

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 (Filtered) (Continued)										
EPA 245.1	Mercury	mg/L	0.00205	<0.000200	0.00200	102	70 - 130	X521202 - X5E0287-01	23-May-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0987	<0.0050	0.100	98.7	79 - 121	X521121 - X5E0284-02	22-May-25	
EPA 335.4	Cyanide (total)	mg/L	0.0743	<0.0050	0.100	74.3	90 - 110	X522003 - X5E0287-02	28-May-25	M2,R2B
EPA 335.4	Cyanide (total)	mg/L	0.100	<0.0050	0.100	100	90 - 110	X522003 - X5E0287-01	28-May-25	
EPA 350.1	Ammonia as N	mg/L	0.998	0.047	1.00	95.1	90 - 110	X522051 - X5E0287-02	29-May-25	
EPA 350.1	Ammonia as N	mg/L	1.15	0.136	1.00	102	90 - 110	X522051 - X5E0287-01	29-May-25	
EPA 351.2	TKN	mg/L	8.09	<0.50	8.00	101	90 - 110	X521115 - X5E0250-03	28-May-25	
EPA 351.2	TKN	mg/L	7.27	<0.50	8.00	90.9	90 - 110	X521115 - X5E0250-01	28-May-25	
OIA 1677	Cyanide (WAD)	mg/L	0.0759	<0.0050	0.100	75.9	82 - 118	X521122 - X5E0287-02	21-May-25	M2
SM 4500 S D	Sulfide	mg/L	0.197	<0.050	0.200	98.5	75 - 125	X521247 - X5E0308-01	23-May-25	
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0209	<0.0050	0.0222	94.3	75 - 125	X521023 - X5E0219-04	21-May-25	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.00	<0.20	3.00	99.2	90 - 110	X521080 - X5E0281-02	20-May-25	
EPA 300.0	Fluoride	mg/L	1.97	<0.100	2.00	97.9	90 - 110	X521080 - X5E0281-02	20-May-25	
EPA 300.0	Nitrate as N	mg/L	1.99	<0.050	2.00	98.1	90 - 110	X521080 - X5E0281-02	20-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.97	<0.100	4.00	99.3	90 - 110	X521080 - X5E0281-02	20-May-25	
EPA 300.0	Nitrite as N	mg/L	1.96	<0.050	2.00	97.8	90 - 110	X521080 - X5E0281-02	21-May-25	
EPA 300.0	Sulfate as SO4	mg/L	9.77	<0.30	10.0	97.7	90 - 110	X521080 - X5E0281-02	20-May-25	

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total)										
EPA 1631E	Mercury	ng/L	3.75	3.78	2.50	0.8	24	97.0	X522037 - X5E0345-01	
EPA 1631E	Mercury	ng/L	3.94	3.86	2.50	2.0	24	97.9	X522037 - X5E0300-01	
EPA 245.1	Mercury	mg/L	0.00251	0.00245	0.00200	2.2	20	111	X521199 - X5E0283-01	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	1.26	1.22	1.00	2.9	20	109	X521167 - X5E0287-05	
EPA 200.7	Beryllium	mg/L	1.01	0.995	1.00	1.8	20	101	X521167 - X5E0287-05	
EPA 200.7	Boron	mg/L	1.09	1.09	1.00	0.1	20	107	X521167 - X5E0287-05	
EPA 200.7	Calcium	mg/L	67.8	66.8	20.0	2.0	20	108	X521167 - X5E0287-05	
EPA 200.7	Chromium	mg/L	1.02	1.00	1.00	1.7	20	102	X521167 - X5E0287-05	
EPA 200.7	Iron	mg/L	45.2	44.7	10.0	1.2	20	107	X521167 - X5E0287-05	
EPA 200.7	Magnesium	mg/L	32.9	32.3	20.0	1.7	20	108	X521167 - X5E0287-05	
EPA 200.7	Manganese	mg/L	2.14	2.10	1.00	2.0	20	102	X521167 - X5E0287-05	
EPA 200.7	Molybdenum	mg/L	1.02	1.00	1.00	1.4	20	102	X521167 - X5E0287-05	
EPA 200.7	Nickel	mg/L	1.01	0.993	1.00	1.7	20	100	X521167 - X5E0287-05	
EPA 200.7	Phosphorus	mg/L	1.50	1.47	1.00	1.8	20	103	X521167 - X5E0287-05	
EPA 200.7	Potassium	mg/L	22.9	22.5	20.0	1.7	20	104	X521167 - X5E0287-05	
EPA 200.7	Sodium	mg/L	33.6	33.1	19.0	1.5	20	104	X521167 - X5E0287-05	
EPA 200.7	Zinc	mg/L	1.01	0.998	1.00	1.2	20	98.0	X521167 - X5E0287-05	
EPA 200.8	Antimony	mg/L	0.0235	0.0229	0.0250	2.7	20	94.1	X521176 - X5E0287-06	
EPA 200.8	Arsenic	mg/L	0.0243	0.0241	0.0250	0.7	20	95.9	X521176 - X5E0287-06	
EPA 200.8	Cadmium	mg/L	0.0229	0.0226	0.0250	1.3	20	91.5	X521176 - X5E0287-06	
EPA 200.8	Chromium	mg/L	0.0247	0.0240	0.0250	2.7	20	98.7	X521176 - X5E0287-06	
EPA 200.8	Copper	mg/L	0.0250	0.0244	0.0250	2.4	20	99.8	X521176 - X5E0287-06	

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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: **X5E0287**
Reported: 04-Jun-25 15:17

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 (Total Recoverable--reportable as Total per 40 CFR 136) (Continued)										
EPA 200.8	Lead	mg/L	0.0238	0.0233	0.0250	1.9	20	95.2	X521176 - X5E0287-06	
EPA 200.8	Selenium	mg/L	0.0246	0.0237	0.0250	3.7	20	98.5	X521176 - X5E0287-06	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.916	0.922	1.00	0.7	20	91.6	X521099 - X5E0219-01	
EPA 200.7	Barium	mg/L	0.966	0.977	1.00	1.2	20	93.3	X521099 - X5E0219-01	
EPA 200.7	Beryllium	mg/L	0.938	0.935	1.00	0.2	20	93.8	X521099 - X5E0219-01	
EPA 200.7	Boron	mg/L	1.07	1.07	1.00	0.1	20	104	X521099 - X5E0219-01	
EPA 200.7	Cadmium	mg/L	0.943	0.945	1.00	0.1	20	94.3	X521099 - X5E0219-01	
EPA 200.7	Calcium	mg/L	52.8	53.2	20.0	0.7	20	90.1	X521099 - X5E0219-01	
EPA 200.7	Chromium	mg/L	0.937	0.943	1.00	0.6	20	93.7	X521099 - X5E0219-01	
EPA 200.7	Cobalt	mg/L	0.913	0.914	1.00	0.1	20	91.3	X521099 - X5E0219-01	
EPA 200.7	Copper	mg/L	0.911	0.915	1.00	0.4	20	91.1	X521099 - X5E0219-01	
EPA 200.7	Iron	mg/L	9.18	9.25	10.0	0.7	20	91.8	X521099 - X5E0219-01	
EPA 200.7	Lead	mg/L	0.945	0.948	1.00	0.2	20	94.5	X521099 - X5E0219-01	
EPA 200.7	Lithium	mg/L	0.932	0.934	1.00	0.3	20	93.2	X521099 - X5E0219-01	
EPA 200.7	Magnesium	mg/L	26.2	26.3	20.0	0.3	20	92.2	X521099 - X5E0219-01	
EPA 200.7	Manganese	mg/L	0.954	0.955	1.00	0.0	20	93.9	X521099 - X5E0219-01	
EPA 200.7	Molybdenum	mg/L	0.940	0.940	1.00	0.0	20	94.0	X521099 - X5E0219-01	
EPA 200.7	Nickel	mg/L	0.925	0.925	1.00	0.1	20	92.5	X521099 - X5E0219-01	
EPA 200.7	Potassium	mg/L	20.6	20.7	20.0	0.4	20	91.7	X521099 - X5E0219-01	
EPA 200.7	Silver	mg/L	0.0468	0.0467	0.0500	0.3	20	93.6	X521099 - X5E0219-01	
EPA 200.7	Sodium	mg/L	41.9	42.2	19.0	0.7	20	89.8	X521099 - X5E0219-01	
EPA 200.7	Vanadium	mg/L	0.946	0.950	1.00	0.4	20	94.4	X521099 - X5E0219-01	
EPA 200.7	Zinc	mg/L	0.939	0.940	1.00	0.0	20	93.0	X521099 - X5E0219-01	
EPA 200.8	Antimony	mg/L	0.0250	0.0250	0.0250	0.2	20	100	X521234 - X5E0246-01	
EPA 200.8	Arsenic	mg/L	0.0247	0.0248	0.0250	0.3	20	98.7	X521234 - X5E0246-01	
EPA 200.8	Cadmium	mg/L	0.0248	0.0246	0.0250	0.5	20	99.1	X521234 - X5E0246-01	
EPA 200.8	Chromium	mg/L	0.0245	0.0246	0.0250	0.1	20	98.1	X521234 - X5E0246-01	
EPA 200.8	Copper	mg/L	0.0247	0.0247	0.0250	0.3	20	98.7	X521234 - X5E0246-01	
EPA 200.8	Lead	mg/L	0.0246	0.0244	0.0250	0.9	20	98.2	X521234 - X5E0246-01	
EPA 200.8	Selenium	mg/L	0.0231	0.0243	0.0250	4.9	20	92.4	X521234 - X5E0246-01	
EPA 200.8	Silver	mg/L	0.0251	0.0249	0.0250	0.6	20	100	X521234 - X5E0246-01	
EPA 200.8	Thallium	mg/L	0.0247	0.0245	0.0250	0.9	20	98.8	X521234 - X5E0246-01	
EPA 200.8	Uranium	mg/L	0.0249	0.0248	0.0250	0.3	20	99.6	X521234 - X5E0246-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00205	0.00207	0.00200	1.0	20	103	X521202 - X5E0281-01	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0998	0.0987	0.100	1.1	11	99.8	X521121 - X5E0284-02	
EPA 335.4	Cyanide (total)	mg/L	0.109	0.0743	0.100	37.8	20	109	X522003 - X5E0287-02	R2B
EPA 350.1	Ammonia as N	mg/L	1.02	0.998	1.00	2.4	20	97.5	X522051 - X5E0287-02	
EPA 351.2	TKN	mg/L	7.52	8.09	8.00	7.3	20	94.0	X521115 - X5E0250-03	
OIA 1677	Cyanide (WAD)	mg/L	0.0755	0.0759	0.100	0.5	11	75.5	X521122 - X5E0287-02	M2
SM 4500 S D	Sulfide	mg/L	0.197	0.197	0.200	0.0	20	98.5	X521247 - X5E0308-01	
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0212	0.0209	0.0222	1.3	20	95.6	X521023 - X5E0219-04	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.01	3.00	3.00	0.2	20	99.4	X521080 - X5E0281-02	
EPA 300.0	Fluoride	mg/L	1.99	1.97	2.00	0.9	20	98.7	X521080 - X5E0281-02	
EPA 300.0	Nitrate as N	mg/L	1.99	1.99	2.00	0.1	20	98.0	X521080 - X5E0281-02	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.95	3.97	4.00	0.6	20	98.6	X521080 - X5E0281-02	
EPA 300.0	Nitrite as N	mg/L	1.96	1.96	2.00	0.2	20	98.0	X521080 - X5E0281-02	

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Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X5E0287**
Reported: 04-Jun-25 15:17

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	9.89	9.77	10.0	1.2	20	98.9	X521080 - X5E0281-02	

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Ironclad Security 1632 County Rd 82	Work Order: **X5E0287**
Cripple Creek, CO 80813	Reported: 04-Jun-25 15:17

Notes and Definitions

D14	Due to precipitates evident in sample/digestate, a sample dilution was performed.
D17	Due to an internal standard failure at a lower dilution, a sample dilution was performed.
D18	Due to a published chemical interference, a sample dilution was performed.
H3	Sample was received and/or analysis requested past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
Q5	Sample was received with inadequate preservation, but preserved by the laboratory.
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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Cripple Creek & Victor Gold Mining Company	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Ironclad Security 1632 County Rd 82	Work Order: **X5E0291**
Cripple Creek, CO 80813	Reported: 04-Jun-25 15:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
RB-0519	X5E0291-01	Ground Water	19-May-25 14:35	JC	20-May-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.

Case Narrative: X5E0291

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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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X5E0291**
Reported: 04-Jun-25 15:22

Client Sample ID: **RB-0519**
SVL Sample ID: **X5E0291-01 (Ground Water)**

Sampled: 19-May-25 14:35
Received: 20-May-25
Sampled By: JC

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**	1.13	mg/L	0.100	0.069		X521167	SJN	05/29/25 14:01	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X521167	SJN	05/29/25 14:01	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X521167	SJN	05/29/25 14:01	
SM 2340 B	**Hardness (as CaCO3)**	2.83	mg/L	2.31	0.543		N/A		05/22/25 08:36	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X521099	JRR	05/22/25 08:36	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X521099	JRR	05/22/25 08:36	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X521099	JRR	05/22/25 08:36	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X521099	SJN	05/22/25 15:36	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X521099	JRR	05/22/25 08:36	
EPA 200.7	**Calcium**	0.914	mg/L	0.100	0.069		X521099	JRR	05/22/25 08:36	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X521099	JRR	05/22/25 08:36	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X521099	JRR	05/22/25 08:36	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X521099	JRR	05/22/25 08:36	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X521099	JRR	05/22/25 08:36	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X521099	JRR	05/22/25 08:36	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X521099	JRR	05/22/25 08:36	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X521099	JRR	05/22/25 08:36	
EPA 200.7	**Manganese**	0.0112	mg/L	0.0080	0.0034		X521099	JRR	05/22/25 08:36	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X521099	JRR	05/22/25 08:36	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X521099	JRR	05/22/25 08:36	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X521099	JRR	05/22/25 08:36	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X521099	JRR	05/22/25 08:36	
EPA 200.7	**Sodium**	0.74	mg/L	0.50	0.12		X521099	JRR	05/22/25 08:36	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X521099	JRR	05/22/25 08:36	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X521099	JRR	05/22/25 08:36	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X521236	SMU	05/28/25 13:22	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X521236	SMU	05/28/25 13:22	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X521236	SMU	05/28/25 13:22	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X521236	SMU	05/28/25 13:22	
EPA 200.8	**Uranium**	0.000184	mg/L	0.000100	0.000052		X521236	SMU	05/28/25 13:22	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X521202	MAC	05/23/25 15:33	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X521121	JPM	05/22/25 17:27	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X522003	JPM	05/28/25 16:35	
EPA 350.1	**Ammonia as N**	0.055	mg/L	0.030	0.013		X522050	JPM	05/29/25 15:32	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X521122	JPM	05/21/25 17:05	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X523019	MWD	06/02/25 15:43	
SM 2320 B	**Total Alkalinity**	1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 14:58	
SM 2320 B	**Bicarbonate**	1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 14:58	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 14:58	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X521076	MWD	05/21/25 14:58	
SM 2540 C	**Total Diss. Solids**	21	mg/L	10			X521130	TJL	05/22/25 13:45	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X521131	TJL	05/23/25 16:00	
SM 4500 H B	**pH @20.3°C**	5.3	pH Units				X521076	MWD	05/21/25 14:58	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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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: **X5E0291**
Reported: 04-Jun-25 15:22

Client Sample ID: **RB-0519**
SVL Sample ID: **X5E0291-01 (Ground Water)**

Sampled: 19-May-25 14:35
Received: 20-May-25
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	< 0.20	mg/L	0.20	0.02		X521080	RS	05/21/25 03:18	
EPA 300.0	**Fluoride**	0.298	mg/L	0.100	0.017		X521080	RS	05/21/25 03:18	
EPA 300.0	**Nitrate as N**	0.300	mg/L	0.050	0.013		X521080	RS	05/21/25 03:18	
EPA 300.0	**Nitrate+Nitrite as N**	0.300	mg/L	0.100	0.044		X521080	RS	05/21/25 03:18	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X521080	RS	05/21/25 03:18	
EPA 300.0	**Sulfate as SO4**	0.54	mg/L	0.30	0.18		X521080	RS	05/21/25 03:18	

Cation/Anion Balance and TDS Ratios

Cation Sum: 0.11 meq/L Anion Sum: 0.07 meq/L C/A Balance: 21.14 % Calculated TDS: 5 TDS/cTDS: 4.64

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

Kristi A. Groth

Kristi A. Groth
Project Manager

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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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: **X5E0291**
Reported: 04-Jun-25 15:22

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	X521167	29-May-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X521167	29-May-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X521167	29-May-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X521099	22-May-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X521099	22-May-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X521099	22-May-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X521099	22-May-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X521099	22-May-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X521099	22-May-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X521099	22-May-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X521099	22-May-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X521099	22-May-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X521099	22-May-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X521099	22-May-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X521099	22-May-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X521099	22-May-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X521099	22-May-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X521099	22-May-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X521099	22-May-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X521099	22-May-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X521099	22-May-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X521099	22-May-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X521099	22-May-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X521099	22-May-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X521236	28-May-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X521236	28-May-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X521236	28-May-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X521236	28-May-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X521236	28-May-25	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X521202	23-May-25	
Classical Chemistry Parameters								
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X521121	22-May-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X522003	28-May-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X522050	29-May-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X521122	21-May-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X523019	02-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X521076	21-May-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X521076	21-May-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X521076	21-May-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X521076	21-May-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X521130	22-May-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X521131	23-May-25	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X521080	20-May-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X521080	21-May-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X521080	20-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X521080	20-May-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X521080	20-May-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X521080	20-May-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: **X5E0291**
Reported: 04-Jun-25 15:22

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	19.8	20.0	99	85 - 115	X521167	29-May-25	
EPA 200.7	Magnesium	mg/L	19.5	20.0	97.6	85 - 115	X521167	29-May-25	
EPA 200.7	Potassium	mg/L	19.6	20.0	97.8	85 - 115	X521167	29-May-25	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.938	1.00	93.8	85 - 115	X521099	22-May-25	
EPA 200.7	Barium	mg/L	0.965	1.00	96.5	85 - 115	X521099	22-May-25	
EPA 200.7	Beryllium	mg/L	0.955	1.00	95.5	85 - 115	X521099	22-May-25	
EPA 200.7	Boron	mg/L	0.995	1.00	99.5	85 - 115	X521099	22-May-25	
EPA 200.7	Cadmium	mg/L	0.948	1.00	94.8	85 - 115	X521099	22-May-25	
EPA 200.7	Calcium	mg/L	18.6	20.0	93.1	85 - 115	X521099	22-May-25	
EPA 200.7	Chromium	mg/L	0.962	1.00	96.2	85 - 115	X521099	22-May-25	
EPA 200.7	Cobalt	mg/L	0.925	1.00	92.5	85 - 115	X521099	22-May-25	
EPA 200.7	Copper	mg/L	0.942	1.00	94.2	85 - 115	X521099	22-May-25	
EPA 200.7	Iron	mg/L	9.30	10.0	93.0	85 - 115	X521099	22-May-25	
EPA 200.7	Lead	mg/L	0.948	1.00	94.8	85 - 115	X521099	22-May-25	
EPA 200.7	Lithium	mg/L	0.914	1.00	91.4	85 - 115	X521099	22-May-25	
EPA 200.7	Magnesium	mg/L	18.4	20.0	91.9	85 - 115	X521099	22-May-25	
EPA 200.7	Manganese	mg/L	0.968	1.00	96.8	85 - 115	X521099	22-May-25	
EPA 200.7	Molybdenum	mg/L	0.943	1.00	94.3	85 - 115	X521099	22-May-25	
EPA 200.7	Nickel	mg/L	0.939	1.00	93.9	85 - 115	X521099	22-May-25	
EPA 200.7	Potassium	mg/L	18.7	20.0	93.6	85 - 115	X521099	22-May-25	
EPA 200.7	Silver	mg/L	0.0470	0.0500	94.0	85 - 115	X521099	22-May-25	
EPA 200.7	Sodium	mg/L	17.9	19.0	94.0	85 - 115	X521099	22-May-25	
EPA 200.7	Vanadium	mg/L	0.964	1.00	96.4	85 - 115	X521099	22-May-25	
EPA 200.7	Zinc	mg/L	0.924	1.00	92.4	85 - 115	X521099	22-May-25	
EPA 200.8	Antimony	mg/L	0.0234	0.0250	93.7	85 - 115	X521236	28-May-25	
EPA 200.8	Arsenic	mg/L	0.0222	0.0250	88.9	85 - 115	X521236	28-May-25	
EPA 200.8	Selenium	mg/L	0.0217	0.0250	86.8	85 - 115	X521236	28-May-25	
EPA 200.8	Thallium	mg/L	0.0229	0.0250	91.5	85 - 115	X521236	28-May-25	
EPA 200.8	Uranium	mg/L	0.0246	0.0250	98.3	85 - 115	X521236	28-May-25	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00201	0.00200	101	85 - 115	X521202	23-May-25	
Classical Chemistry Parameters									
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0997	0.100	99.7	90 - 110	X521121	22-May-25	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.100	103	90 - 110	X522003	28-May-25	
EPA 350.1	Ammonia as N	mg/L	0.933	1.00	93.3	90 - 110	X522050	29-May-25	
OIA 1677	Cyanide (WAD)	mg/L	0.106	0.100	106	90 - 110	X521122	21-May-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1170	1180	99.3	95.4 - 104	X523019	02-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.0	9.93	101	94 - 106	X521076	21-May-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	99.5	99.3	100	94 - 106	X521076	21-May-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	416	397	105	94 - 106	X521076	21-May-25	
SM 2540 C	Total Diss. Solids	mg/L	248	250	99.2	85 - 115	X521130	22-May-25	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X521131	23-May-25	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.94	3.00	97.9	90 - 110	X521080	20-May-25	
EPA 300.0	Fluoride	mg/L	1.98	2.00	98.8	90 - 110	X521080	21-May-25	
EPA 300.0	Nitrate as N	mg/L	1.94	2.00	96.9	90 - 110	X521080	20-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.42	4.50	98.2	90 - 110	X521080	20-May-25	
EPA 300.0	Nitrite as N	mg/L	2.48	2.50	99.2	90 - 110	X521080	20-May-25	
EPA 300.0	Sulfate as SO4	mg/L	9.77	10.0	97.7	90 - 110	X521080	20-May-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: **X5E0291**
Reported: 04-Jun-25 15:22

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	516	516	0.0	20	X523019 - X5E0283-01	02-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	55.4	55.3	0.2	20	X521076 - X5E0240-01	21-May-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	55.4	55.3	0.2	20	X521076 - X5E0240-01	21-May-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X521076 - X5E0240-01	21-May-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X521076 - X5E0240-01	21-May-25	
SM 2540 C	Total Diss. Solids	mg/L	396	387	2.3	10	X521130 - X5E0283-03	22-May-25	
SM 2540 C	Total Diss. Solids	mg/L	399	395	1.0	10	X521130 - X5E0287-04	22-May-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X521131 - X5E0287-04	23-May-25	
SM 2540 D	Total Susp. Solids	mg/L	64.0	26.0	84.4	10	X521131 - X5E0283-04	23-May-25	R2B
SM 4500 H B	pH @19.5°C	pH Units	6.8	6.8	0.9	20	X521076 - X5E0240-01	21-May-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	66.8	46.2	20.0	103	70 - 130	X521167 - X5E0287-05	29-May-25	
EPA 200.7	Calcium	mg/L	22.4	2.15	20.0	101	70 - 130	X521167 - X5E0328-05	29-May-25	
EPA 200.7	Magnesium	mg/L	32.3	11.4	20.0	105	70 - 130	X521167 - X5E0287-05	29-May-25	
EPA 200.7	Magnesium	mg/L	20.6	0.654	20.0	99.9	70 - 130	X521167 - X5E0328-05	29-May-25	
EPA 200.7	Potassium	mg/L	22.5	2.15	20.0	102	70 - 130	X521167 - X5E0287-05	29-May-25	
EPA 200.7	Potassium	mg/L	20.1	<0.50	20.0	99.4	70 - 130	X521167 - X5E0328-05	29-May-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.922	<0.080	1.00	92.2	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Aluminum	mg/L	0.917	<0.080	1.00	91.7	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Barium	mg/L	0.977	0.0326	1.00	94.5	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Barium	mg/L	0.940	<0.0020	1.00	94.0	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Beryllium	mg/L	0.935	<0.00200	1.00	93.5	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Beryllium	mg/L	0.929	<0.00200	1.00	92.9	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Boron	mg/L	1.07	<0.0400	1.00	104	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Boron	mg/L	0.977	<0.0400	1.00	97.7	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Cadmium	mg/L	0.945	<0.0020	1.00	94.5	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Cadmium	mg/L	0.952	<0.0020	1.00	95.2	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Calcium	mg/L	53.2	34.8	20.0	92.1	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Calcium	mg/L	19.4	0.914	20.0	92.2	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Chromium	mg/L	0.943	<0.0060	1.00	94.3	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Chromium	mg/L	0.940	<0.0060	1.00	94.0	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Cobalt	mg/L	0.914	<0.0060	1.00	91.4	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Cobalt	mg/L	0.923	<0.0060	1.00	92.3	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Copper	mg/L	0.915	<0.0100	1.00	91.5	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Copper	mg/L	0.907	<0.0100	1.00	90.7	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Iron	mg/L	9.25	<0.100	10.0	92.5	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Iron	mg/L	9.18	<0.100	10.0	91.8	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Lead	mg/L	0.948	<0.0075	1.00	94.8	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Lead	mg/L	0.952	<0.0075	1.00	95.2	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Lithium	mg/L	0.934	<0.040	1.00	93.4	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Lithium	mg/L	0.867	<0.040	1.00	86.7	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Magnesium	mg/L	26.3	7.80	20.0	92.6	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Magnesium	mg/L	18.0	<0.500	20.0	90.1	70 - 130	X521099 - X5E0291-01	22-May-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: **X5E0291**
Reported: 04-Jun-25 15:22

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	0.955	0.0159	1.00	93.9	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Manganese	mg/L	0.952	0.0112	1.00	94.1	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Molybdenum	mg/L	0.940	<0.0080	1.00	94.0	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Molybdenum	mg/L	0.935	<0.0080	1.00	93.5	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Nickel	mg/L	0.925	<0.0100	1.00	92.5	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Nickel	mg/L	0.939	<0.0100	1.00	93.9	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Potassium	mg/L	20.7	2.23	20.0	92.2	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Potassium	mg/L	18.7	<0.50	20.0	92.3	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Silver	mg/L	0.0467	<0.0050	0.0500	93.4	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Silver	mg/L	0.0468	<0.0050	0.0500	93.6	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Sodium	mg/L	42.2	24.9	19.0	91.3	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Sodium	mg/L	18.3	0.74	19.0	92.4	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Vanadium	mg/L	0.950	<0.0050	1.00	94.8	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Vanadium	mg/L	0.936	<0.0050	1.00	93.6	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.7	Zinc	mg/L	0.940	<0.0100	1.00	93.0	70 - 130	X521099 - X5E0219-01	22-May-25	
EPA 200.7	Zinc	mg/L	0.936	<0.0100	1.00	92.9	70 - 130	X521099 - X5E0291-01	22-May-25	
EPA 200.8	Antimony	mg/L	0.0253	<0.00100	0.0250	101	70 - 130	X521236 - X5E0284-01	28-May-25	
EPA 200.8	Antimony	mg/L	0.0266	<0.00100	0.0250	106	70 - 130	X521236 - X5E0312-05	28-May-25	
EPA 200.8	Arsenic	mg/L	0.0513	0.0251	0.0250	105	70 - 130	X521236 - X5E0284-01	28-May-25	
EPA 200.8	Arsenic	mg/L	0.0738	0.0434	0.0250	122	70 - 130	X521236 - X5E0312-05	28-May-25	
EPA 200.8	Selenium	mg/L	0.0263	0.00189	0.0250	97.8	70 - 130	X521236 - X5E0284-01	28-May-25	
EPA 200.8	Selenium	mg/L	0.0314	0.00759	0.0250	95.1	70 - 130	X521236 - X5E0312-05	28-May-25	
EPA 200.8	Thallium	mg/L	0.0263	0.000209	0.0250	104	70 - 130	X521236 - X5E0284-01	28-May-25	
EPA 200.8	Thallium	mg/L	0.0315	<0.000200	0.0250	126	70 - 130	X521236 - X5E0312-05	28-May-25	
EPA 200.8	Uranium	mg/L	0.463	0.446	0.0250	0.30R>S	70 - 130	X521236 - X5E0284-01	28-May-25	M3
EPA 200.8	Uranium	mg/L	1.78	1.67	0.0250	0.30R>S	70 - 130	X521236 - X5E0312-05	28-May-25	M3
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00207	<0.000200	0.00200	104	70 - 130	X521202 - X5E0281-01	23-May-25	
EPA 245.1	Mercury	mg/L	0.00205	<0.000200	0.00200	102	70 - 130	X521202 - X5E0287-01	23-May-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0987	<0.0050	0.100	98.7	79 - 121	X521121 - X5E0284-02	22-May-25	
EPA 335.4	Cyanide (total)	mg/L	0.0743	<0.0050	0.100	74.3	90 - 110	X522003 - X5E0287-02	28-May-25	M2,R2B
EPA 335.4	Cyanide (total)	mg/L	0.100	<0.0050	0.100	100	90 - 110	X522003 - X5E0287-01	28-May-25	
EPA 350.1	Ammonia as N	mg/L	0.958	<0.030	1.00	95.8	90 - 110	X522050 - X5E0296-02	29-May-25	
EPA 350.1	Ammonia as N	mg/L	0.974	0.085	1.00	89.0	90 - 110	X522050 - X5E0296-01	29-May-25	M2
OIA 1677	Cyanide (WAD)	mg/L	0.0759	<0.0050	0.100	75.9	82 - 118	X521122 - X5E0287-02	21-May-25	M2
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.00	<0.20	3.00	99.2	90 - 110	X521080 - X5E0281-02	20-May-25	
EPA 300.0	Fluoride	mg/L	1.97	<0.100	2.00	97.9	90 - 110	X521080 - X5E0281-02	20-May-25	
EPA 300.0	Nitrate as N	mg/L	1.99	<0.050	2.00	98.1	90 - 110	X521080 - X5E0281-02	20-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.97	<0.100	4.00	99.3	90 - 110	X521080 - X5E0281-02	20-May-25	
EPA 300.0	Nitrite as N	mg/L	1.96	<0.050	2.00	97.8	90 - 110	X521080 - X5E0281-02	21-May-25	
EPA 300.0	Sulfate as SO4	mg/L	9.77	<0.30	10.0	97.7	90 - 110	X521080 - X5E0281-02	20-May-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: **X5E0291**
Reported: 04-Jun-25 15:22

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	67.8	66.8	20.0	2.0	20	108	X521167 - X5E0287-05	
EPA 200.7	Magnesium	mg/L	32.9	32.3	20.0	1.7	20	108	X521167 - X5E0287-05	
EPA 200.7	Potassium	mg/L	22.9	22.5	20.0	1.7	20	104	X521167 - X5E0287-05	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.916	0.922	1.00	0.7	20	91.6	X521099 - X5E0219-01	
EPA 200.7	Barium	mg/L	0.966	0.977	1.00	1.2	20	93.3	X521099 - X5E0219-01	
EPA 200.7	Beryllium	mg/L	0.938	0.935	1.00	0.2	20	93.8	X521099 - X5E0219-01	
EPA 200.7	Boron	mg/L	1.07	1.07	1.00	0.1	20	104	X521099 - X5E0219-01	
EPA 200.7	Cadmium	mg/L	0.943	0.945	1.00	0.1	20	94.3	X521099 - X5E0219-01	
EPA 200.7	Calcium	mg/L	52.8	53.2	20.0	0.7	20	90.1	X521099 - X5E0219-01	
EPA 200.7	Chromium	mg/L	0.937	0.943	1.00	0.6	20	93.7	X521099 - X5E0219-01	
EPA 200.7	Cobalt	mg/L	0.913	0.914	1.00	0.1	20	91.3	X521099 - X5E0219-01	
EPA 200.7	Copper	mg/L	0.911	0.915	1.00	0.4	20	91.1	X521099 - X5E0219-01	
EPA 200.7	Iron	mg/L	9.18	9.25	10.0	0.7	20	91.8	X521099 - X5E0219-01	
EPA 200.7	Lead	mg/L	0.945	0.948	1.00	0.2	20	94.5	X521099 - X5E0219-01	
EPA 200.7	Lithium	mg/L	0.932	0.934	1.00	0.3	20	93.2	X521099 - X5E0219-01	
EPA 200.7	Magnesium	mg/L	26.2	26.3	20.0	0.3	20	92.2	X521099 - X5E0219-01	
EPA 200.7	Manganese	mg/L	0.954	0.955	1.00	0.0	20	93.9	X521099 - X5E0219-01	
EPA 200.7	Molybdenum	mg/L	0.940	0.940	1.00	0.0	20	94.0	X521099 - X5E0219-01	
EPA 200.7	Nickel	mg/L	0.925	0.925	1.00	0.1	20	92.5	X521099 - X5E0219-01	
EPA 200.7	Potassium	mg/L	20.6	20.7	20.0	0.4	20	91.7	X521099 - X5E0219-01	
EPA 200.7	Silver	mg/L	0.0468	0.0467	0.0500	0.3	20	93.6	X521099 - X5E0219-01	
EPA 200.7	Sodium	mg/L	41.9	42.2	19.0	0.7	20	89.8	X521099 - X5E0219-01	
EPA 200.7	Vanadium	mg/L	0.946	0.950	1.00	0.4	20	94.4	X521099 - X5E0219-01	
EPA 200.7	Zinc	mg/L	0.939	0.940	1.00	0.0	20	93.0	X521099 - X5E0219-01	
EPA 200.8	Antimony	mg/L	0.0265	0.0253	0.0250	4.9	20	106	X521236 - X5E0284-01	
EPA 200.8	Arsenic	mg/L	0.0527	0.0513	0.0250	2.7	20	110	X521236 - X5E0284-01	
EPA 200.8	Selenium	mg/L	0.0268	0.0263	0.0250	1.9	20	99.8	X521236 - X5E0284-01	
EPA 200.8	Thallium	mg/L	0.0267	0.0263	0.0250	1.5	20	106	X521236 - X5E0284-01	
EPA 200.8	Uranium	mg/L	0.489	0.463	0.0250	5.5	20	0.30R>S	X521236 - X5E0284-01	M3
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00205	0.00207	0.00200	1.0	20	103	X521202 - X5E0281-01	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0998	0.0987	0.100	1.1	11	99.8	X521121 - X5E0284-02	
EPA 335.4	Cyanide (total)	mg/L	0.109	0.0743	0.100	37.8	20	109	X522003 - X5E0287-02	R2B
EPA 350.1	Ammonia as N	mg/L	1.02	0.958	1.00	6.5	20	102	X522050 - X5E0296-02	
OIA 1677	Cyanide (WAD)	mg/L	0.0755	0.0759	0.100	0.5	11	75.5	X521122 - X5E0287-02	M2
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.01	3.00	3.00	0.2	20	99.4	X521080 - X5E0281-02	
EPA 300.0	Fluoride	mg/L	1.99	1.97	2.00	0.9	20	98.7	X521080 - X5E0281-02	
EPA 300.0	Nitrate as N	mg/L	1.99	1.99	2.00	0.1	20	98.0	X521080 - X5E0281-02	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.95	3.97	4.00	0.6	20	98.6	X521080 - X5E0281-02	
EPA 300.0	Nitrite as N	mg/L	1.96	1.96	2.00	0.2	20	98.0	X521080 - X5E0281-02	
EPA 300.0	Sulfate as SO4	mg/L	9.89	9.77	10.0	1.2	20	98.9	X521080 - X5E0281-02	

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Cripple Creek & Victor Gold Mining Company	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Ironclad Security 1632 County Rd 82	Work Order: **X5E0291**
Cripple Creek, CO 80813	Reported: 04-Jun-25 15:22

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.
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.
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 2024
Work Order: **X5E0312**
Reported: 06-Jun-25 11:58

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-28	X5E0312-01	Ground Water	20-May-25 08:20	JC	21-May-2025	Q5C
OSABH-17	X5E0312-02	Ground Water	20-May-25 09:18	JC	21-May-2025	Q5C
GVMW-27	X5E0312-03	Ground Water	20-May-25 10:58	JC	21-May-2025	
GVMW-25	X5E0312-04	Ground Water	20-May-25 11:55	JC	21-May-2025	Q5
GVMW-36	X5E0312-05	Ground Water	20-May-25 11:00	JC	21-May-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.

Case Narrative: X5E0312

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: **X5E0312**
Reported: 06-Jun-25 11:58

Client Sample ID: **GVMW-28**
SVL Sample ID: **X5E0312-01 (Ground Water)**

Sampled: 20-May-25 08:20
Received: 21-May-25
Sampled By: JC

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**	434	mg/L	1.00	0.690	10	X522154	MAC	06/03/25 12:40	D18,M4
EPA 200.7	**Magnesium**	420	mg/L	5.00	0.900	10	X522154	MAC	06/03/25 12:40	D18,M4
EPA 200.7	Potassium	< 5.00	mg/L	5.00	1.80	10	X522154	MAC	06/03/25 12:40	D18
SM 2340 B	**Hardness (as CaCO3)**	2770	mg/L	20.8	3.88		N/A		06/04/25 15:19	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	1030	mg/L	0.400	0.270	5	X522006	MAC	06/04/25 15:19	D18,M4
EPA 200.7	**Barium**	0.0091	mg/L	0.0020	0.0019		X522006	MAC	06/04/25 11:21	
EPA 200.7	**Beryllium**	0.720	mg/L	0.00200	0.00080		X522006	MAC	06/04/25 11:21	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X522006	MAC	06/04/25 11:21	
EPA 200.7	**Cadmium**	2.10	mg/L	0.0020	0.0016		X522006	MAC	06/04/25 11:21	
EPA 200.7	**Calcium**	416	mg/L	0.100	0.069		X522006	MAC	06/04/25 11:21	B7,M3
EPA 200.7	**Chromium**	0.143	mg/L	0.0060	0.0020		X522006	MAC	06/04/25 11:21	
EPA 200.7	**Cobalt**	1.87	mg/L	0.0060	0.0046		X522006	MAC	06/04/25 11:21	
EPA 200.7	**Copper**	5.06	mg/L	0.0100	0.0027		X522006	MAC	06/04/25 11:21	
EPA 200.7	**Iron**	51.6	mg/L	0.100	0.056		X522006	MAC	06/04/25 11:21	
EPA 200.7	Lead	< 0.0375	mg/L	0.0375	0.0245	5	X522006	MAC	06/04/25 15:19	D18
EPA 200.7	**Lithium**	0.509	mg/L	0.040	0.025		X522006	MAC	06/04/25 11:21	M1
EPA 200.7	**Magnesium**	392	mg/L	2.50	0.450	5	X522006	MAC	06/04/25 15:19	D18,M4
EPA 200.7	**Manganese**	289	mg/L	0.0400	0.0170	5	X522006	MAC	06/04/25 13:23	D18,M4
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X522006	MAC	06/04/25 11:21	
EPA 200.7	**Nickel**	3.15	mg/L	0.0100	0.0048		X522006	MAC	06/04/25 11:21	
EPA 200.7	**Potassium**	1.04	mg/L	0.50	0.18		X522006	MAC	06/04/25 11:21	
EPA 200.7	Silver	< 0.0250	mg/L	0.0250	0.0095	5	X522006	MAC	06/04/25 15:19	D18
EPA 200.7	**Sodium**	34.7	mg/L	2.50	0.60	5	X522006	MAC	06/04/25 15:19	D18
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X522006	MAC	06/04/25 11:21	
EPA 200.7	**Zinc**	80.3	mg/L	0.0500	0.0270	5	X522006	MAC	06/04/25 13:23	D18,M4
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X521236	SMU	05/28/25 13:25	
EPA 200.8	**Arsenic**	0.243	mg/L	0.00100	0.00021		X521236	SMU	05/28/25 13:25	
EPA 200.8	**Selenium**	0.0256	mg/L	0.00100	0.00024		X521236	SMU	05/28/25 13:25	
EPA 200.8	Thallium	< 0.00200	mg/L	0.00200	0.000800	10	X521236	SMU	05/28/25 14:38	D17
EPA 200.8	**Uranium**	3.12	mg/L	0.00100	0.000520	10	X521236	SMU	05/28/25 14:38	D17
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X521203	MAC	05/23/25 14:12	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X522049	JPM	06/04/25 17:21	H1
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X522003	JPM	05/28/25 16:37	
EPA 350.1	**Ammonia as N**	0.052	mg/L	0.030	0.013		X522051	JPM	05/29/25 17:40	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X522098	JPM	06/02/25 12:41	
SM 2310 B	**Acidity to pH 8.3**	6250	mg/L as CaCO3	10.0			X523021	MWD	06/02/25 15:33	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X522072	MWD	05/30/25 18:02	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X522072	MWD	05/30/25 18:02	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X522072	MWD	05/30/25 18:02	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X522072	MWD	05/30/25 18:02	
SM 2540 C	**Total Diss. Solids**	13500	mg/L	100			X521196	TJL	05/23/25 13:45	
SM 2540 D	**Total Susp. Solids**	18.0	mg/L	5.0			X521197	TJL	05/23/25 15:00	
SM 4500 H B	**pH @23.0°C**	3.0	pH Units				X522072	MWD	05/30/25 18:02	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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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: **X5E0312**
Reported: 06-Jun-25 11:58

Client Sample ID: **GVMW-28**
SVL Sample ID: **X5E0312-01 (Ground Water)**

Sampled: 20-May-25 08:20
Received: 21-May-25
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	6.10	mg/L	2.00	0.22	10	X521148	RS	05/21/25 20:33	D18
EPA 300.0	**Fluoride**	121	mg/L	25.0	4.25	250	X521148	RS	05/22/25 16:26	
EPA 300.0	**Nitrate as N**	5.88	mg/L	0.500	0.130	10	X521148	RS	05/21/25 20:33	D18
EPA 300.0	**Nitrate+Nitrite as N**	5.88	mg/L	1.00	0.440	10	X521148	RS	05/21/25 20:33	D18
EPA 300.0	Nitrite as N	< 0.500	mg/L	0.500	0.310	10	X521148	RS	05/21/25 20:33	D18
EPA 300.0	**Sulfate as SO4**	9500	mg/L	75.0	45.0	250	X521148	RS	05/21/25 20:51	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 184 meq/L Anion Sum: 205 meq/L C/A Balance: -5.30 % Calculated TDS: 10519 TDS/cTDS: 1.28

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

Kristi A. Groth

Kristi A. Groth
Project Manager

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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: **X5E0312**
Reported: 06-Jun-25 11:58

Client Sample ID: **OSABH-17**
SVL Sample ID: **X5E0312-02 (Ground Water)**

Sampled: 20-May-25 09:18
Received: 21-May-25
Sampled By: JC

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**	417	mg/L	1.00	0.690	10	X522154	MAC	06/03/25 12:51	D18
EPA 200.7	**Magnesium**	1760	mg/L	5.00	0.900	10	X522154	MAC	06/03/25 12:51	D18
EPA 200.7	Potassium	< 5.00	mg/L	5.00	1.80	10	X522154	MAC	06/03/25 12:51	D18
SM 2340 B	**Hardness (as CaCO3)**	7050	mg/L	105	20.3		N/A		06/03/25 12:51	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	3840	mg/L	4.00	2.70	50	X522006	MAC	06/04/25 15:24	D18
EPA 200.7	Barium	< 0.0200	mg/L	0.0200	0.0190	10	X522006	MAC	06/04/25 11:32	D18
EPA 200.7	**Beryllium**	0.779	mg/L	0.0200	0.00800	10	X522006	MAC	06/04/25 11:32	D18
EPA 200.7	Boron	< 0.400	mg/L	0.400	0.0780	10	X522006	MAC	06/04/25 11:32	D18
EPA 200.7	**Cadmium**	9.58	mg/L	0.0200	0.0160	10	X522006	MAC	06/04/25 11:32	D18
EPA 200.7	**Calcium**	419	mg/L	1.00	0.690	10	X522006	MAC	06/04/25 11:32	B7,D18
EPA 200.7	**Chromium**	0.848	mg/L	0.0600	0.0200	10	X522006	MAC	06/04/25 11:32	D18
EPA 200.7	**Cobalt**	21.3	mg/L	0.0600	0.0460	10	X522006	MAC	06/04/25 11:32	D18
EPA 200.7	**Copper**	17.5	mg/L	0.100	0.0270	10	X522006	MAC	06/04/25 11:32	D18
EPA 200.7	**Iron**	110	mg/L	1.00	0.560	10	X522006	MAC	06/04/25 11:32	D18
EPA 200.7	Lead	< 0.375	mg/L	0.375	0.245	50	X522006	MAC	06/04/25 15:24	D18
EPA 200.7	**Lithium**	2.27	mg/L	0.400	0.250	10	X522006	MAC	06/04/25 11:32	D18
EPA 200.7	**Magnesium**	1460	mg/L	25.0	4.50	50	X522006	MAC	06/04/25 15:24	D18
EPA 200.7	**Manganese**	1540	mg/L	0.400	0.170	50	X522006	MAC	06/04/25 13:34	D18
EPA 200.7	Molybdenum	< 0.0800	mg/L	0.0800	0.0340	10	X522006	MAC	06/04/25 11:32	D18
EPA 200.7	**Nickel**	16.7	mg/L	0.100	0.0480	10	X522006	MAC	06/04/25 11:32	D18
EPA 200.7	Potassium	< 5.00	mg/L	5.00	1.80	10	X522006	MAC	06/04/25 11:32	D18
EPA 200.7	Silver	< 0.250	mg/L	0.250	0.0950	50	X522006	MAC	06/04/25 15:24	D18
EPA 200.7	Sodium	< 25.0	mg/L	25.0	6.00	50	X522006	MAC	06/04/25 15:24	D18
EPA 200.7	Vanadium	< 0.0500	mg/L	0.0500	0.0190	10	X522006	MAC	06/04/25 11:32	D18
EPA 200.7	**Zinc**	355	mg/L	0.100	0.0540	10	X522006	MAC	06/04/25 11:32	D18
EPA 200.8	Antimony	< 0.0100	mg/L	0.0100	0.00720	10	X521236	SMU	05/28/25 14:09	D11
EPA 200.8	**Arsenic**	0.680	mg/L	0.0100	0.00210	10	X521236	SMU	05/28/25 14:09	D11
EPA 200.8	**Selenium**	0.0545	mg/L	0.0100	0.00240	10	X521236	SMU	05/28/25 14:09	D11
EPA 200.8	Thallium	< 0.00200	mg/L	0.00200	0.000800	10	X521236	SMU	05/28/25 14:09	D11
EPA 200.8	**Uranium**	17.7	mg/L	0.00100	0.000520	10	X521236	SMU	05/28/25 14:09	D11
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X521203	MAC	05/23/25 14:15	
Classical Chemistry Parameters										
ASTM D7237-15A	**Cyanide (free) @ pH 6**	0.0099	mg/L	0.0050	0.0048		X522049	JPM	06/04/25 17:24	H1
EPA 335.4	**Cyanide (total)**	0.0264	mg/L	0.0050	0.0038		X522003	JPM	05/28/25 16:39	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X522051	JPM	05/29/25 17:43	
OIA 1677	**Cyanide (WAD)**	0.0099	mg/L	0.0050	0.0010		X522098	JPM	06/02/25 12:44	
SM 2310 B	**Acidity to pH 8.3**	35100	mg/L as CaCO3	10.0			X523021	MWD	06/02/25 15:33	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X522072	MWD	05/30/25 18:07	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X522072	MWD	05/30/25 18:07	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X522072	MWD	05/30/25 18:07	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X522072	MWD	05/30/25 18:07	
SM 2540 C	**Total Diss. Solids**	50500	mg/L	100			X521196	TJL	05/23/25 13:45	E11
SM 2540 D	**Total Susp. Solids**	150	mg/L	5.0			X521197	TJL	05/23/25 15:00	
SM 4500 H B	**pH @23.1°C**	2.9	pH Units				X522072	MWD	05/30/25 18:07	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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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: **X5E0312**
Reported: 06-Jun-25 11:58

Client Sample ID: **OSABH-17**
SVL Sample ID: **X5E0312-02 (Ground Water)**

Sampled: 20-May-25 09:18
Received: 21-May-25
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	18.2	mg/L	10.0	1.10	50	X521148	RS	05/21/25 21:10	
EPA 300.0	**Fluoride**	605	mg/L	100	17.0	1000	X521148	RS	05/22/25 16:44	
EPA 300.0	**Nitrate as N**	4.44	mg/L	2.50	0.650	50	X521148	RS	05/21/25 21:10	D18
EPA 300.0	Nitrate+Nitrite as N	< 5.00	mg/L	5.00	2.20	50	X521148	RS	05/21/25 21:10	D18
EPA 300.0	Nitrite as N	< 2.50	mg/L	2.50	1.55	50	X521148	RS	05/21/25 21:10	D18
EPA 300.0	**Sulfate as SO4**	40100	mg/L	300	180	1000	X521148	RS	05/21/25 21:28	

Cation/Anion Balance and TDS Ratios

Cation Sum: 843 meq/L Anion Sum: 867 meq/L C/A Balance: -1.41 % Calculated TDS: 42751 TDS/cTDS: 1.18

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

Kristi A. Groth

Kristi A. Groth
Project Manager

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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: **X5E0312**
Reported: 06-Jun-25 11:58

Client Sample ID: **GVMW-27**
SVL Sample ID: **X5E0312-03 (Ground Water)**

Sampled: 20-May-25 10:58
Received: 21-May-25
Sampled By: JC

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**	269	mg/L	0.100	0.069		X522154	MAC	06/03/25 12:55	
EPA 200.7	**Magnesium**	103	mg/L	0.500	0.090		X522154	MAC	06/03/25 12:55	
EPA 200.7	**Potassium**	4.19	mg/L	0.50	0.18		X522154	MAC	06/03/25 12:55	
SM 2340 B	**Hardness (as CaCO3)**	1330	mg/L	2.31	0.543		N/A		06/03/25 12:55	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	113	mg/L	0.080	0.054		X522006	MAC	06/04/25 15:25	
EPA 200.7	**Barium**	0.0149	mg/L	0.0020	0.0019		X522006	MAC	06/04/25 11:36	
EPA 200.7	**Beryllium**	0.111	mg/L	0.00200	0.00080		X522006	MAC	06/04/25 11:36	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X522006	MAC	06/04/25 11:36	
EPA 200.7	**Cadmium**	0.302	mg/L	0.0020	0.0016		X522006	MAC	06/04/25 11:36	
EPA 200.7	**Calcium**	326	mg/L	0.100	0.069		X522006	MAC	06/04/25 11:36	B7
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X522006	MAC	06/04/25 11:36	
EPA 200.7	**Cobalt**	0.238	mg/L	0.0060	0.0046		X522006	MAC	06/04/25 11:36	
EPA 200.7	**Copper**	0.329	mg/L	0.0100	0.0027		X522006	MAC	06/04/25 11:36	
EPA 200.7	**Iron**	3.47	mg/L	0.100	0.056		X522006	MAC	06/04/25 11:36	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X522006	MAC	06/04/25 15:25	
EPA 200.7	**Lithium**	0.117	mg/L	0.040	0.025		X522006	MAC	06/04/25 11:36	
EPA 200.7	**Magnesium**	125	mg/L	0.500	0.090		X522006	MAC	06/04/25 15:25	
EPA 200.7	**Manganese**	54.1	mg/L	0.0080	0.0034		X522006	MAC	06/04/25 11:36	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X522006	MAC	06/04/25 11:36	
EPA 200.7	**Nickel**	0.500	mg/L	0.0100	0.0048		X522006	MAC	06/04/25 11:36	
EPA 200.7	**Potassium**	4.83	mg/L	0.50	0.18		X522006	MAC	06/04/25 11:36	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X522006	MAC	06/04/25 15:25	
EPA 200.7	**Sodium**	48.4	mg/L	0.50	0.12		X522006	MAC	06/04/25 15:25	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X522006	MAC	06/04/25 11:36	
EPA 200.7	**Zinc**	11.5	mg/L	0.0100	0.0054		X522006	MAC	06/04/25 11:36	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X521236	SMU	05/28/25 14:16	
EPA 200.8	**Arsenic**	0.0395	mg/L	0.00100	0.00021		X521236	SMU	05/28/25 14:16	
EPA 200.8	**Selenium**	0.00347	mg/L	0.00100	0.00024		X521236	SMU	05/28/25 14:16	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X521236	SMU	05/28/25 14:16	
EPA 200.8	**Uranium**	0.406	mg/L	0.000100	0.000052		X521236	SMU	05/28/25 14:16	
Metals (Filtered)										
EPA 245.1	**Mercury**	0.000303	mg/L	0.000200	0.000093		X521203	MAC	05/23/25 14:17	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X522049	JPM	06/04/25 17:42	H1
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X522003	JPM	05/28/25 16:41	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X522051	JPM	05/29/25 17:46	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X522098	JPM	06/02/25 12:47	
SM 2310 B	**Acidity to pH 8.3**	828	mg/L as CaCO3	10.0			X523021	MWD	06/02/25 15:33	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X522072	MWD	05/30/25 18:12	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X522072	MWD	05/30/25 18:12	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X522072	MWD	05/30/25 18:12	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X522072	MWD	05/30/25 18:12	
SM 2540 C	**Total Diss. Solids**	2620	mg/L	40			X521196	TJL	05/23/25 13:45	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X521197	TJL	05/23/25 15:00	
SM 4500 H B	**pH @23.0°C**	4.0	pH Units				X522072	MWD	05/30/25 18:12	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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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: **X5E0312**
Reported: 06-Jun-25 11:58

Client Sample ID: **GVMW-27**
SVL Sample ID: **X5E0312-03 (Ground Water)**

Sampled: 20-May-25 10:58
Received: 21-May-25
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	53.1	mg/L	10.0	1.10	50	X521148	RS	05/21/25 22:05	
EPA 300.0	**Fluoride**	15.6	mg/L	5.00	0.850	50	X521148	RS	05/22/25 17:03	
EPA 300.0	**Nitrate as N**	1.84	mg/L	0.050	0.013		X521148	RS	05/21/25 21:47	
EPA 300.0	**Nitrate+Nitrite as N**	1.87	mg/L	0.100	0.044		X521148	RS	05/21/25 21:47	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X521148	RS	05/21/25 21:47	
EPA 300.0	**Sulfate as SO4**	2340	mg/L	15.0	9.00	50	X521148	RS	05/21/25 22:05	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 40.7 meq/L Anion Sum: 51.2 meq/L C/A Balance: -11.45 % Calculated TDS: 2881 TDS/cTDS: 0.91

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: **X5E0312**
Reported: 06-Jun-25 11:58

Client Sample ID: **GVMW-25**
SVL Sample ID: **X5E0312-04 (Ground Water)**

Sampled: 20-May-25 11:55
Received: 21-May-25
Sampled By: JC

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	0.200	0.138	2	X522154	MAC	06/03/25 12:59	D18
EPA 200.7	**Magnesium**	285	mg/L	1.00	0.180	2	X522154	MAC	06/03/25 12:59	D18
EPA 200.7	**Potassium**	5.20	mg/L	1.00	0.36	2	X522154	MAC	06/03/25 12:59	D18
SM 2340 B	**Hardness (as CaCO3)**	2240	mg/L	2.56	0.715		N/A		06/03/25 12:59	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	458	mg/L	0.080	0.054		X522006	MAC	06/04/25 16:14	
EPA 200.7	**Barium**	0.0124	mg/L	0.0020	0.0019		X522006	MAC	06/04/25 11:39	
EPA 200.7	**Beryllium**	0.385	mg/L	0.00200	0.00080		X522006	MAC	06/04/25 11:39	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X522006	MAC	06/04/25 11:39	
EPA 200.7	**Cadmium**	0.972	mg/L	0.0020	0.0016		X522006	MAC	06/04/25 11:39	
EPA 200.7	**Calcium**	453	mg/L	0.100	0.069		X522006	MAC	06/04/25 11:39	B7
EPA 200.7	**Chromium**	0.0320	mg/L	0.0060	0.0020		X522006	MAC	06/04/25 11:39	
EPA 200.7	**Cobalt**	0.960	mg/L	0.0060	0.0046		X522006	MAC	06/04/25 11:39	
EPA 200.7	**Copper**	1.65	mg/L	0.0100	0.0027		X522006	MAC	06/04/25 11:39	
EPA 200.7	**Iron**	1.39	mg/L	0.100	0.056		X522006	MAC	06/04/25 11:39	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X522006	MAC	06/04/25 16:14	
EPA 200.7	**Lithium**	0.296	mg/L	0.040	0.025		X522006	MAC	06/04/25 11:39	
EPA 200.7	**Magnesium**	275	mg/L	0.500	0.090		X522006	MAC	06/04/25 16:14	
EPA 200.7	**Manganese**	144	mg/L	0.0400	0.0170	5	X522006	MAC	06/04/25 13:38	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X522006	MAC	06/04/25 11:39	
EPA 200.7	**Nickel**	1.66	mg/L	0.0100	0.0048		X522006	MAC	06/04/25 11:39	
EPA 200.7	**Potassium**	5.60	mg/L	0.50	0.18		X522006	MAC	06/04/25 11:39	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X522006	MAC	06/04/25 16:14	
EPA 200.7	**Sodium**	39.2	mg/L	0.50	0.12		X522006	MAC	06/04/25 16:14	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X522006	MAC	06/04/25 11:39	
EPA 200.7	**Zinc**	34.3	mg/L	0.0100	0.0054		X522006	MAC	06/04/25 11:39	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X521236	SMU	05/28/25 14:19	
EPA 200.8	**Arsenic**	0.139	mg/L	0.00100	0.00021		X521236	SMU	05/28/25 14:19	
EPA 200.8	**Selenium**	0.0117	mg/L	0.00100	0.00024		X521236	SMU	05/28/25 14:19	
EPA 200.8	Thallium	< 0.000400	mg/L	0.000400	0.000160	2	X521236	SMU	05/28/25 14:56	D17
EPA 200.8	**Uranium**	1.31	mg/L	0.000200	0.000104	2	X521236	SMU	05/28/25 14:56	D17
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X521203	MAC	05/23/25 14:19	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X522049	JPM	06/04/25 17:43	H1
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X522003	JPM	05/28/25 16:43	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X522051	JPM	05/29/25 17:49	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X522098	JPM	06/02/25 12:50	
SM 2310 B	**Acidity to pH 8.3**	2830	mg/L as CaCO3	10.0			X523021	MWD	06/02/25 15:33	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X522072	MWD	05/30/25 18:18	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X522072	MWD	05/30/25 18:18	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X522072	MWD	05/30/25 18:18	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X522072	MWD	05/30/25 18:18	
SM 2540 C	**Total Diss. Solids**	7260	mg/L	40			X521196	TJL	05/23/25 13:45	
SM 2540 D	**Total Susp. Solids**	12.0	mg/L	5.0			X521197	TJL	05/23/25 15:00	
SM 4500 H B	**pH @23.1°C**	3.5	pH Units				X522072	MWD	05/30/25 18:18	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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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: **X5E0312**
Reported: 06-Jun-25 11:58

Client Sample ID: **GVMW-25**
SVL Sample ID: **X5E0312-04 (Ground Water)**

Sampled: 20-May-25 11:55
Received: 21-May-25
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	22.0	mg/L	1.00	0.11	5	X521148	RS	05/21/25 22:23	
EPA 300.0	**Fluoride**	57.1	mg/L	25.0	4.25	250	X521148	RS	05/22/25 17:21	
EPA 300.0	**Nitrate as N**	3.48	mg/L	0.250	0.065	5	X521148	RS	05/21/25 22:23	D18
EPA 300.0	**Nitrate+Nitrite as N**	3.48	mg/L	0.500	0.220	5	X521148	RS	05/21/25 22:23	D18
EPA 300.0	Nitrite as N	< 0.250	mg/L	0.250	0.155	5	X521148	RS	05/21/25 22:23	D18
EPA 300.0	**Sulfate as SO4**	5010	mg/L	75.0	45.0	250	X521148	RS	05/22/25 17:21	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 104 meq/L Anion Sum: 108 meq/L C/A Balance: -2.01 % Calculated TDS: 5877 TDS/cTDS: 1.24

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: **X5E0312**
Reported: 06-Jun-25 11:58

Client Sample ID: **GVMW-36**
SVL Sample ID: **X5E0312-05 (Ground Water)**

Sampled: 20-May-25 11:00
Received: 21-May-25
Sampled By: JC

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**	400	mg/L	0.200	0.138	2	X522154	MAC	06/03/25 13:02	D18
EPA 200.7	**Magnesium**	317	mg/L	1.00	0.180	2	X522154	MAC	06/03/25 13:02	D18
EPA 200.7	**Potassium**	2.83	mg/L	1.00	0.36	2	X522154	MAC	06/03/25 13:02	D18
SM 2340 B	**Hardness (as CaCO3)**	2260	mg/L	2.56	0.715		N/A		06/03/25 13:02	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	380	mg/L	0.080	0.054		X522006	MAC	06/04/25 16:16	
EPA 200.7	**Barium**	0.0117	mg/L	0.0020	0.0019		X522006	MAC	06/04/25 11:43	
EPA 200.7	**Beryllium**	0.117	mg/L	0.00200	0.00080		X522006	MAC	06/04/25 11:43	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X522006	MAC	06/04/25 11:43	
EPA 200.7	**Cadmium**	0.897	mg/L	0.0020	0.0016		X522006	MAC	06/04/25 11:43	
EPA 200.7	**Calcium**	406	mg/L	0.100	0.069		X522006	MAC	06/04/25 11:43	B7
EPA 200.7	**Chromium**	0.0857	mg/L	0.0060	0.0020		X522006	MAC	06/04/25 11:43	
EPA 200.7	**Cobalt**	2.16	mg/L	0.0060	0.0046		X522006	MAC	06/04/25 11:43	
EPA 200.7	**Copper**	1.87	mg/L	0.0100	0.0027		X522006	MAC	06/04/25 11:43	
EPA 200.7	**Iron**	7.42	mg/L	0.100	0.056		X522006	MAC	06/04/25 11:43	
EPA 200.7	**Lead**	0.0287	mg/L	0.0075	0.0049		X522006	MAC	06/04/25 16:16	
EPA 200.7	**Lithium**	0.359	mg/L	0.040	0.025		X522006	MAC	06/04/25 11:43	
EPA 200.7	**Magnesium**	306	mg/L	0.500	0.090		X522006	MAC	06/04/25 16:16	
EPA 200.7	**Manganese**	93.6	mg/L	0.0400	0.0170	5	X522006	MAC	06/04/25 13:50	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X522006	MAC	06/04/25 11:43	
EPA 200.7	**Nickel**	1.93	mg/L	0.0100	0.0048		X522006	MAC	06/04/25 11:43	
EPA 200.7	**Potassium**	3.31	mg/L	0.50	0.18		X522006	MAC	06/04/25 11:43	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X522006	MAC	06/04/25 16:16	
EPA 200.7	**Sodium**	27.2	mg/L	0.50	0.12		X522006	MAC	06/04/25 16:16	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X522006	MAC	06/04/25 11:43	
EPA 200.7	**Zinc**	39.0	mg/L	0.0100	0.0054		X522006	MAC	06/04/25 11:43	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X521236	SMU	05/28/25 14:22	
EPA 200.8	**Arsenic**	0.0434	mg/L	0.00100	0.00021		X521236	SMU	05/28/25 14:22	
EPA 200.8	**Selenium**	0.00759	mg/L	0.00100	0.00024		X521236	SMU	05/28/25 14:22	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X521236	SMU	05/28/25 14:22	
EPA 200.8	**Uranium**	1.67	mg/L	0.000100	0.000052		X521236	SMU	05/28/25 14:22	M3
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X521203	MAC	05/23/25 14:21	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X522049	JPM	06/04/25 17:46	H1
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X522003	JPM	05/28/25 16:53	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X522051	JPM	05/29/25 17:51	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X522098	JPM	06/02/25 12:53	
SM 2310 B	**Acidity to pH 8.3**	2530	mg/L as CaCO3	10.0			X523021	MWD	06/02/25 15:33	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X522072	MWD	05/30/25 18:24	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X522072	MWD	05/30/25 18:24	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X522072	MWD	05/30/25 18:24	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X522072	MWD	05/30/25 18:24	
SM 2540 C	**Total Diss. Solids**	6700	mg/L	40			X521196	TJL	05/23/25 13:45	
SM 2540 D	**Total Susp. Solids**	13.0	mg/L	5.0			X521197	TJL	05/23/25 15:00	
SM 4500 H B	**pH @23.1°C**	3.4	pH Units				X522072	MWD	05/30/25 18:24	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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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: **X5E0312**
Reported: 06-Jun-25 11:58

Client Sample ID: **GVMW-36**
SVL Sample ID: **X5E0312-05 (Ground Water)**

Sampled: 20-May-25 11:00
Received: 21-May-25
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	8.95	mg/L	2.00	0.22	10	X521148	RS	05/21/25 23:37	D18
EPA 300.0	**Fluoride**	40.9	mg/L	25.0	4.25	250	X521148	RS	05/22/25 17:39	
EPA 300.0	**Nitrate as N**	2.69	mg/L	0.500	0.130	10	X521148	RS	05/21/25 23:37	D18
EPA 300.0	**Nitrate+Nitrite as N**	2.69	mg/L	1.00	0.440	10	X521148	RS	05/21/25 23:37	D18
EPA 300.0	Nitrite as N	< 0.500	mg/L	0.500	0.310	10	X521148	RS	05/21/25 23:37	D18
EPA 300.0	**Sulfate as SO4**	4630	mg/L	75.0	45.0	250	X521148	RS	05/21/25 23:55	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 97.0 meq/L Anion Sum: 99.0 meq/L C/A Balance: -1.03 % Calculated TDS: 5437 TDS/cTDS: 1.23

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: **X5E0312**
Reported: 06-Jun-25 11:58

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	X522154	03-Jun-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X522154	03-Jun-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X522154	03-Jun-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X522006	04-Jun-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X522006	04-Jun-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X522006	04-Jun-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X522006	04-Jun-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X522006	04-Jun-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X522006	04-Jun-25	B7
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X522006	04-Jun-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X522006	04-Jun-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X522006	04-Jun-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X522006	04-Jun-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X522006	04-Jun-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X522006	04-Jun-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X522006	04-Jun-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X522006	04-Jun-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X522006	04-Jun-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X522006	04-Jun-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X522006	04-Jun-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X522006	04-Jun-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X522006	04-Jun-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X522006	04-Jun-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X522006	04-Jun-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X521236	28-May-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X521236	28-May-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X521236	28-May-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X521236	28-May-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X521236	28-May-25	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X521203	23-May-25	
Classical Chemistry Parameters								
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X522049	04-Jun-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X522003	28-May-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X522051	29-May-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X522098	02-Jun-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X523021	02-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X522072	30-May-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X522072	30-May-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X522072	30-May-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X522072	30-May-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X521196	23-May-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X521197	23-May-25	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X521148	21-May-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X521148	21-May-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X521148	21-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X521148	21-May-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X521148	21-May-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X521148	21-May-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: **X5E0312**
Reported: 06-Jun-25 11:58

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	19.8	20.0	99	85 - 115	X522154	03-Jun-25	
EPA 200.7	Magnesium	mg/L	19.8	20.0	99.1	85 - 115	X522154	03-Jun-25	
EPA 200.7	Potassium	mg/L	19.7	20.0	98.6	85 - 115	X522154	03-Jun-25	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.945	1.00	94.5	85 - 115	X522006	04-Jun-25	
EPA 200.7	Barium	mg/L	0.994	1.00	99.4	85 - 115	X522006	04-Jun-25	
EPA 200.7	Beryllium	mg/L	0.980	1.00	98.0	85 - 115	X522006	04-Jun-25	
EPA 200.7	Boron	mg/L	0.990	1.00	99.0	85 - 115	X522006	04-Jun-25	
EPA 200.7	Cadmium	mg/L	0.963	1.00	96.3	85 - 115	X522006	04-Jun-25	
EPA 200.7	Calcium	mg/L	18.9	20.0	94.6	85 - 115	X522006	04-Jun-25	B7
EPA 200.7	Chromium	mg/L	0.986	1.00	98.6	85 - 115	X522006	04-Jun-25	
EPA 200.7	Cobalt	mg/L	0.957	1.00	95.7	85 - 115	X522006	04-Jun-25	
EPA 200.7	Copper	mg/L	0.970	1.00	97.0	85 - 115	X522006	04-Jun-25	
EPA 200.7	Iron	mg/L	9.42	10.0	94.2	85 - 115	X522006	04-Jun-25	
EPA 200.7	Lead	mg/L	0.940	1.00	94.0	85 - 115	X522006	04-Jun-25	
EPA 200.7	Lithium	mg/L	0.945	1.00	94.5	85 - 115	X522006	04-Jun-25	
EPA 200.7	Magnesium	mg/L	18.1	20.0	90.5	85 - 115	X522006	04-Jun-25	
EPA 200.7	Manganese	mg/L	0.979	1.00	97.9	85 - 115	X522006	04-Jun-25	
EPA 200.7	Molybdenum	mg/L	0.965	1.00	96.5	85 - 115	X522006	04-Jun-25	
EPA 200.7	Nickel	mg/L	0.951	1.00	95.1	85 - 115	X522006	04-Jun-25	
EPA 200.7	Potassium	mg/L	19.9	20.0	99.4	85 - 115	X522006	04-Jun-25	
EPA 200.7	Silver	mg/L	0.0482	0.0500	96.4	85 - 115	X522006	04-Jun-25	
EPA 200.7	Sodium	mg/L	17.7	19.0	93.4	85 - 115	X522006	04-Jun-25	
EPA 200.7	Vanadium	mg/L	1.00	1.00	100	85 - 115	X522006	04-Jun-25	
EPA 200.7	Zinc	mg/L	0.964	1.00	96.4	85 - 115	X522006	04-Jun-25	
EPA 200.8	Antimony	mg/L	0.0234	0.0250	93.7	85 - 115	X521236	28-May-25	
EPA 200.8	Arsenic	mg/L	0.0222	0.0250	88.9	85 - 115	X521236	28-May-25	
EPA 200.8	Selenium	mg/L	0.0217	0.0250	86.8	85 - 115	X521236	28-May-25	
EPA 200.8	Thallium	mg/L	0.0229	0.0250	91.5	85 - 115	X521236	28-May-25	
EPA 200.8	Uranium	mg/L	0.0246	0.0250	98.3	85 - 115	X521236	28-May-25	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00211	0.00200	105	85 - 115	X521203	23-May-25	
Classical Chemistry Parameters									
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0997	0.100	99.7	90 - 110	X522049	04-Jun-25	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.100	103	90 - 110	X522003	28-May-25	
EPA 350.1	Ammonia as N	mg/L	0.914	1.00	91.4	90 - 110	X522051	29-May-25	
OIA 1677	Cyanide (WAD)	mg/L	0.100	0.100	100	90 - 110	X522098	02-Jun-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1170	1180	99.3	95.4 - 104	X523021	02-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.90	9.93	99.7	94 - 106	X522072	30-May-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	101	94 - 106	X522072	30-May-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	408	397	103	94 - 106	X522072	30-May-25	
SM 2540 C	Total Diss. Solids	mg/L	248	250	99.2	85 - 115	X521196	23-May-25	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X521197	23-May-25	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.03	3.00	101	90 - 110	X521148	21-May-25	
EPA 300.0	Fluoride	mg/L	2.00	2.00	99.8	90 - 110	X521148	21-May-25	
EPA 300.0	Nitrate as N	mg/L	2.03	2.00	101	90 - 110	X521148	21-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.64	4.50	103	90 - 110	X521148	21-May-25	
EPA 300.0	Nitrite as N	mg/L	2.61	2.50	105	90 - 110	X521148	21-May-25	
EPA 300.0	Sulfate as SO4	mg/L	9.80	10.0	98.0	90 - 110	X521148	21-May-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: **X5E0312**
Reported: 06-Jun-25 11:58

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	6240	6250	0.2	20	X523021 - X5E0312-01	02-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	500	501	0.1	20	X522072 - X5E0294-03	30-May-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	500	501	0.1	20	X522072 - X5E0294-03	30-May-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X522072 - X5E0294-03	30-May-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X522072 - X5E0294-03	30-May-25	
SM 2540 C	Total Diss. Solids	mg/L	216	215	0.5	10	X521196 - X5E0301-02	23-May-25	
SM 2540 C	Total Diss. Solids	mg/L	342	343	0.3	10	X521196 - X5E0300-02	23-May-25	
SM 2540 D	Total Susp. Solids	mg/L	27.0	27.0	0.0	10	X521197 - X5E0301-02	23-May-25	
SM 2540 D	Total Susp. Solids	mg/L	6.0	<5.0	<RL	10	X521197 - X5E0300-02	23-May-25	R2B
SM 4500 H B	pH @23.0°C	pH Units	6.9	7.0	1.4	20	X522072 - X5E0294-03	30-May-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	415	434	20.0	0.30R>S	70 - 130	X522154 - X5E0312-01	03-Jun-25	D18,M4
EPA 200.7	Magnesium	mg/L	399	420	20.0	0.30R>S	70 - 130	X522154 - X5E0312-01	03-Jun-25	D18,M4
EPA 200.7	Potassium	mg/L	19.6	<5.00	20.0	98.2	70 - 130	X522154 - X5E0312-01	03-Jun-25	D18
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1010	1030	1.00	0.30R>S	70 - 130	X522006 - X5E0312-01	04-Jun-25	M4
EPA 200.7	Aluminum	mg/L	405	407	1.00	0.30R>S	70 - 130	X522006 - X5E0361-01	04-Jun-25	M3
EPA 200.7	Barium	mg/L	1.01	0.0091	1.00	99.8	70 - 130	X522006 - X5E0312-01	04-Jun-25	
EPA 200.7	Barium	mg/L	1.04	0.0113	1.00	102	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Beryllium	mg/L	1.76	0.720	1.00	104	70 - 130	X522006 - X5E0312-01	04-Jun-25	
EPA 200.7	Beryllium	mg/L	1.63	0.623	1.00	100	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Boron	mg/L	1.10	<0.0400	1.00	107	70 - 130	X522006 - X5E0312-01	04-Jun-25	
EPA 200.7	Boron	mg/L	1.06	<0.0400	1.00	104	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Cadmium	mg/L	3.06	2.10	1.00	96.1	70 - 130	X522006 - X5E0312-01	04-Jun-25	
EPA 200.7	Cadmium	mg/L	1.32	0.348	1.00	97.2	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Calcium	mg/L	438	416	20.0	106	70 - 130	X522006 - X5E0312-01	04-Jun-25	B7
EPA 200.7	Calcium	mg/L	507	476	20.0	0.30R>S	70 - 130	X522006 - X5E0361-01	04-Jun-25	B7,M3
EPA 200.7	Chromium	mg/L	1.15	0.143	1.00	100	70 - 130	X522006 - X5E0312-01	04-Jun-25	
EPA 200.7	Chromium	mg/L	1.28	0.295	1.00	98.6	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Cobalt	mg/L	2.84	1.87	1.00	96.9	70 - 130	X522006 - X5E0312-01	04-Jun-25	
EPA 200.7	Cobalt	mg/L	1.59	0.628	1.00	96.3	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Copper	mg/L	6.24	5.06	1.00	118	70 - 130	X522006 - X5E0312-01	04-Jun-25	
EPA 200.7	Copper	mg/L	1.41	0.283	1.00	113	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Iron	mg/L	61.2	51.6	10.0	95.3	70 - 130	X522006 - X5E0312-01	04-Jun-25	
EPA 200.7	Iron	mg/L	34.0	23.6	10.0	104	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Lead	mg/L	0.975	<0.0375	1.00	97.5	70 - 130	X522006 - X5E0312-01	04-Jun-25	D18
EPA 200.7	Lead	mg/L	0.937	<0.0075	1.00	93.1	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Lithium	mg/L	1.85	0.509	1.00	134	70 - 130	X522006 - X5E0312-01	04-Jun-25	M1
EPA 200.7	Lithium	mg/L	1.61	0.373	1.00	124	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Magnesium	mg/L	395	392	20.0	0.30R>S	70 - 130	X522006 - X5E0312-01	04-Jun-25	D18,M4
EPA 200.7	Magnesium	mg/L	336	320	20.0	80.3	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Manganese	mg/L	68.0	67.3	1.00	76.9	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Manganese	mg/L	293	289	1.00	0.30R>S	70 - 130	X522006 - X5E0312-01	04-Jun-25	D18,M4
EPA 200.7	Molybdenum	mg/L	1.00	<0.0080	1.00	100	70 - 130	X522006 - X5E0312-01	04-Jun-25	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X5E0312**
Reported: 06-Jun-25 11:58

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Molybdenum	mg/L	0.978	<0.0080	1.00	97.8	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Nickel	mg/L	4.13	3.15	1.00	98.0	70 - 130	X522006 - X5E0312-01	04-Jun-25	
EPA 200.7	Nickel	mg/L	2.73	1.76	1.00	97.4	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Potassium	mg/L	23.0	1.04	20.0	110	70 - 130	X522006 - X5E0312-01	04-Jun-25	
EPA 200.7	Potassium	mg/L	23.7	1.69	20.0	110	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Silver	mg/L	0.0362	<0.0250	0.0500	72.3	70 - 130	X522006 - X5E0312-01	04-Jun-25	D18
EPA 200.7	Silver	mg/L	0.0475	<0.0050	0.0500	94.9	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Sodium	mg/L	52.0	34.7	19.0	91.3	70 - 130	X522006 - X5E0312-01	04-Jun-25	D18
EPA 200.7	Sodium	mg/L	54.5	35.3	19.0	101	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Vanadium	mg/L	1.06	<0.0050	1.00	106	70 - 130	X522006 - X5E0312-01	04-Jun-25	
EPA 200.7	Vanadium	mg/L	1.04	<0.0050	1.00	104	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Zinc	mg/L	7.05	6.04	1.00	102	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Zinc	mg/L	81.0	80.3	1.00	0.30R>S	70 - 130	X522006 - X5E0312-01	04-Jun-25	D18,M4
EPA 200.8	Antimony	mg/L	0.0253	<0.00100	0.0250	101	70 - 130	X521236 - X5E0284-01	28-May-25	
EPA 200.8	Antimony	mg/L	0.0266	<0.00100	0.0250	106	70 - 130	X521236 - X5E0312-05	28-May-25	
EPA 200.8	Arsenic	mg/L	0.0513	0.0251	0.0250	105	70 - 130	X521236 - X5E0284-01	28-May-25	
EPA 200.8	Arsenic	mg/L	0.0738	0.0434	0.0250	122	70 - 130	X521236 - X5E0312-05	28-May-25	
EPA 200.8	Selenium	mg/L	0.0263	0.00189	0.0250	97.8	70 - 130	X521236 - X5E0284-01	28-May-25	
EPA 200.8	Selenium	mg/L	0.0314	0.00759	0.0250	95.1	70 - 130	X521236 - X5E0312-05	28-May-25	
EPA 200.8	Thallium	mg/L	0.0263	0.000209	0.0250	104	70 - 130	X521236 - X5E0284-01	28-May-25	
EPA 200.8	Thallium	mg/L	0.0315	<0.000200	0.0250	126	70 - 130	X521236 - X5E0312-05	28-May-25	
EPA 200.8	Uranium	mg/L	0.463	0.446	0.0250	0.30R>S	70 - 130	X521236 - X5E0284-01	28-May-25	M3
EPA 200.8	Uranium	mg/L	1.78	1.67	0.0250	0.30R>S	70 - 130	X521236 - X5E0312-05	28-May-25	M3
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00212	<0.000200	0.00200	106	70 - 130	X521203 - X5E0308-01	23-May-25	
EPA 245.1	Mercury	mg/L	0.00211	<0.000200	0.00200	96.9	70 - 130	X521203 - X5E0313-01	23-May-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.122	<0.0050	0.100	122	79 - 121	X522049 - X5E0350-01	04-Jun-25	M1
EPA 335.4	Cyanide (total)	mg/L	0.0743	<0.0050	0.100	74.3	90 - 110	X522003 - X5E0287-02	28-May-25	M2,R2B
EPA 335.4	Cyanide (total)	mg/L	0.100	<0.0050	0.100	100	90 - 110	X522003 - X5E0287-01	28-May-25	
EPA 350.1	Ammonia as N	mg/L	0.998	0.047	1.00	95.1	90 - 110	X522051 - X5E0287-02	29-May-25	
EPA 350.1	Ammonia as N	mg/L	1.15	0.136	1.00	102	90 - 110	X522051 - X5E0287-01	29-May-25	
OIA 1677	Cyanide (WAD)	mg/L	0.102	<0.0050	0.100	102	82 - 118	X522098 - X5E0414-01	02-Jun-25	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	10.9	8.09	3.00	93.3	90 - 110	X521148 - X5E0328-04	21-May-25	
EPA 300.0	Chloride	mg/L	3.09	<0.20	3.00	97.6	90 - 110	X521148 - X5E0328-05	21-May-25	
EPA 300.0	Fluoride	mg/L	1.96	<0.100	2.00	96.0	90 - 110	X521148 - X5E0328-04	21-May-25	
EPA 300.0	Fluoride	mg/L	1.97	<0.100	2.00	96.4	90 - 110	X521148 - X5E0328-05	21-May-25	
EPA 300.0	Nitrate as N	mg/L	1.99	<0.050	2.00	97.9	90 - 110	X521148 - X5E0328-04	21-May-25	
EPA 300.0	Nitrate as N	mg/L	1.99	<0.050	2.00	99.6	90 - 110	X521148 - X5E0328-05	21-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.98	<0.100	4.00	99.5	90 - 110	X521148 - X5E0328-04	21-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.00	<0.100	4.00	100	90 - 110	X521148 - X5E0328-05	21-May-25	
EPA 300.0	Nitrite as N	mg/L	1.99	<0.050	2.00	99.6	90 - 110	X521148 - X5E0328-04	21-May-25	
EPA 300.0	Nitrite as N	mg/L	2.01	<0.050	2.00	100	90 - 110	X521148 - X5E0328-05	21-May-25	
EPA 300.0	Sulfate as SO4	mg/L	11.0	1.25	10.0	97.1	90 - 110	X521148 - X5E0328-04	21-May-25	
EPA 300.0	Sulfate as SO4	mg/L	10.4	0.73	10.0	96.6	90 - 110	X521148 - X5E0328-05	21-May-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: **X5E0312**
Reported: 06-Jun-25 11:58

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	465	415	20.0	11.0	20	0.30R>S	X522154 - X5E0312-01	D18,M4
EPA 200.7	Magnesium	mg/L	459	399	20.0	14.0	20	0.30R>S	X522154 - X5E0312-01	D18,M4
EPA 200.7	Potassium	mg/L	22.6	19.6	20.0	13.9	20	113	X522154 - X5E0312-01	D18
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1040	1010	1.00	2.8	20	0.30R>S	X522006 - X5E0312-01	M4
EPA 200.7	Barium	mg/L	0.980	1.01	1.00	2.8	20	97.1	X522006 - X5E0312-01	
EPA 200.7	Beryllium	mg/L	1.74	1.76	1.00	1.0	20	102	X522006 - X5E0312-01	
EPA 200.7	Boron	mg/L	1.07	1.10	1.00	2.4	20	104	X522006 - X5E0312-01	
EPA 200.7	Cadmium	mg/L	3.00	3.06	1.00	2.0	20	90.1	X522006 - X5E0312-01	
EPA 200.7	Calcium	mg/L	427	438	20.0	2.4	20	0.30R>S	X522006 - X5E0312-01	B7,M3
EPA 200.7	Chromium	mg/L	1.12	1.15	1.00	2.1	20	98.1	X522006 - X5E0312-01	
EPA 200.7	Cobalt	mg/L	2.78	2.84	1.00	1.9	20	91.5	X522006 - X5E0312-01	
EPA 200.7	Copper	mg/L	6.10	6.24	1.00	2.2	20	104	X522006 - X5E0312-01	
EPA 200.7	Iron	mg/L	59.6	61.2	10.0	2.6	20	79.8	X522006 - X5E0312-01	
EPA 200.7	Lead	mg/L	0.991	0.975	1.00	1.6	20	99.1	X522006 - X5E0312-01	D18
EPA 200.7	Lithium	mg/L	1.81	1.85	1.00	2.2	20	130	X522006 - X5E0312-01	
EPA 200.7	Magnesium	mg/L	404	395	20.0	2.4	20	0.30R>S	X522006 - X5E0312-01	D18,M4
EPA 200.7	Manganese	mg/L	293	293	1.00	0.1	20	0.30R>S	X522006 - X5E0312-01	M4
EPA 200.7	Molybdenum	mg/L	0.980	1.00	1.00	2.4	20	98.0	X522006 - X5E0312-01	
EPA 200.7	Nickel	mg/L	4.05	4.13	1.00	1.9	20	90.1	X522006 - X5E0312-01	
EPA 200.7	Potassium	mg/L	22.6	23.0	20.0	1.7	20	108	X522006 - X5E0312-01	
EPA 200.7	Silver	mg/L	0.0362	0.0362	0.0500	0.2	20	72.5	X522006 - X5E0312-01	D18
EPA 200.7	Sodium	mg/L	52.8	52.0	19.0	1.5	20	95.3	X522006 - X5E0312-01	D18
EPA 200.7	Vanadium	mg/L	1.04	1.06	1.00	2.0	20	104	X522006 - X5E0312-01	
EPA 200.7	Zinc	mg/L	82.5	81.0	1.00	1.9	20	0.30R>S	X522006 - X5E0312-01	D18,M4
EPA 200.8	Antimony	mg/L	0.0265	0.0253	0.0250	4.9	20	106	X521236 - X5E0284-01	
EPA 200.8	Arsenic	mg/L	0.0527	0.0513	0.0250	2.7	20	110	X521236 - X5E0284-01	
EPA 200.8	Selenium	mg/L	0.0268	0.0263	0.0250	1.9	20	99.8	X521236 - X5E0284-01	
EPA 200.8	Thallium	mg/L	0.0267	0.0263	0.0250	1.5	20	106	X521236 - X5E0284-01	
EPA 200.8	Uranium	mg/L	0.489	0.463	0.0250	5.5	20	0.30R>S	X521236 - X5E0284-01	M3
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00210	0.00212	0.00200	1.0	20	105	X521203 - X5E0308-01	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.130	0.122	0.100	5.9	11	130	X522049 - X5E0350-01	M1
EPA 335.4	Cyanide (total)	mg/L	0.109	0.0743	0.100	37.8	20	109	X522003 - X5E0287-02	R2B
EPA 350.1	Ammonia as N	mg/L	1.02	0.998	1.00	2.4	20	97.5	X522051 - X5E0287-02	
OIA 1677	Cyanide (WAD)	mg/L	0.104	0.102	0.100	2.2	11	104	X522098 - X5E0414-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	10.9	10.9	3.00	0.4	20	94.8	X521148 - X5E0328-04	
EPA 300.0	Fluoride	mg/L	2.00	1.96	2.00	1.8	20	97.7	X521148 - X5E0328-04	
EPA 300.0	Nitrate as N	mg/L	2.02	1.99	2.00	1.8	20	99.7	X521148 - X5E0328-04	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.05	3.98	4.00	1.8	20	101	X521148 - X5E0328-04	
EPA 300.0	Nitrite as N	mg/L	2.03	1.99	2.00	1.8	20	101	X521148 - X5E0328-04	
EPA 300.0	Sulfate as SO4	mg/L	11.1	11.0	10.0	1.3	20	98.6	X521148 - X5E0328-04	

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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: **X5E0312**
Cripple Creek, CO 80813	Reported: 06-Jun-25 11:58

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.
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.
E11	Sample exceeds method-specified limit for solids content.
H1	Sample analysis performed past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
Q5	Sample was received with inadequate preservation, but preserved by the laboratory.
Q5C	After two pH adjustments, the method-specified pH was not achieved.
R2B	RPD exceeded the laboratory acceptance limit.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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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: **X5E0313**
Cripple Creek, CO 80813	Reported: 06-Jun-25 12:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
OSABH-117E	X5E0313-01	Ground Water	20-May-25 09:18	JC	21-May-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.

Case Narrative: X5E0313

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: **X5E0313**
Reported: 06-Jun-25 12:02

Client Sample ID: **OSABH-117E**
SVL Sample ID: **X5E0313-01 (Ground Water)**

Sampled: 20-May-25 09:18
Received: 21-May-25
Sampled By: JC

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**	431	mg/L	1.00	0.690	10	X522154	MAC	06/03/25 13:06	D18
EPA 200.7	**Magnesium**	1800	mg/L	5.00	0.900	10	X522154	MAC	06/03/25 13:06	D18
EPA 200.7	Potassium	< 5.00	mg/L	5.00	1.80	10	X522154	MAC	06/03/25 13:06	D18
SM 2340 B	**Hardness (as CaCO3)**	8500	mg/L	23.1	5.43		N/A		06/04/25 15:37	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	3820	mg/L	4.00	2.70	50	X522006	MAC	06/04/25 15:37	D18
EPA 200.7	Barium	< 0.0200	mg/L	0.0200	0.0190	10	X522006	MAC	06/04/25 11:47	D18
EPA 200.7	**Beryllium**	0.768	mg/L	0.0200	0.00800	10	X522006	MAC	06/04/25 11:47	D18
EPA 200.7	Boron	< 0.400	mg/L	0.400	0.0780	10	X522006	MAC	06/04/25 11:47	D18
EPA 200.7	**Cadmium**	9.32	mg/L	0.0200	0.0160	10	X522006	MAC	06/04/25 11:47	D18
EPA 200.7	**Calcium**	413	mg/L	1.00	0.690	10	X522006	MAC	06/04/25 11:47	B7,D18
EPA 200.7	**Chromium**	0.837	mg/L	0.0600	0.0200	10	X522006	MAC	06/04/25 11:47	D18
EPA 200.7	**Cobalt**	20.9	mg/L	0.0600	0.0460	10	X522006	MAC	06/04/25 11:47	D18
EPA 200.7	**Copper**	17.2	mg/L	0.100	0.0270	10	X522006	MAC	06/04/25 11:47	D18
EPA 200.7	**Iron**	108	mg/L	1.00	0.560	10	X522006	MAC	06/04/25 11:47	D18
EPA 200.7	Lead	< 0.375	mg/L	0.375	0.245	50	X522006	MAC	06/04/25 15:37	D18
EPA 200.7	**Lithium**	2.21	mg/L	0.400	0.250	10	X522006	MAC	06/04/25 11:47	D18
EPA 200.7	**Magnesium**	1420	mg/L	25.0	4.50	50	X522006	MAC	06/04/25 15:37	D18
EPA 200.7	**Manganese**	1390	mg/L	0.400	0.170	50	X522006	MAC	06/04/25 13:54	D18
EPA 200.7	Molybdenum	< 0.0800	mg/L	0.0800	0.0340	10	X522006	MAC	06/04/25 11:47	D18
EPA 200.7	**Nickel**	16.4	mg/L	0.100	0.0480	10	X522006	MAC	06/04/25 11:47	D18
EPA 200.7	Potassium	< 5.00	mg/L	5.00	1.80	10	X522006	MAC	06/04/25 11:47	D18
EPA 200.7	Silver	< 0.250	mg/L	0.250	0.0950	50	X522006	MAC	06/04/25 15:37	D18
EPA 200.7	Sodium	< 25.0	mg/L	25.0	6.00	50	X522006	MAC	06/04/25 15:37	D18
EPA 200.7	Vanadium	< 0.0500	mg/L	0.0500	0.0190	10	X522006	MAC	06/04/25 11:47	D18
EPA 200.7	**Zinc**	348	mg/L	0.100	0.0540	10	X522006	MAC	06/04/25 11:47	D18
EPA 200.8	Antimony	< 0.0100	mg/L	0.0100	0.00720	10	X521236	SMU	05/28/25 14:28	D11
EPA 200.8	**Arsenic**	0.597	mg/L	0.0100	0.00210	10	X521236	SMU	05/28/25 14:28	D11
EPA 200.8	**Selenium**	0.0491	mg/L	0.0100	0.00240	10	X521236	SMU	05/28/25 14:28	D11
EPA 200.8	Thallium	< 0.00200	mg/L	0.00200	0.000800	10	X521236	SMU	05/28/25 14:28	D11
EPA 200.8	**Uranium**	16.1	mg/L	0.00100	0.000520	10	X521236	SMU	05/28/25 14:28	D11
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X521203	MAC	05/23/25 14:27	
Classical Chemistry Parameters										
ASTM D7237-15A	**Cyanide (free) @ pH 6**	0.0088	mg/L	0.0050	0.0048		X522049	JPM	06/04/25 17:49	H1
EPA 335.4	**Cyanide (total)**	0.0284	mg/L	0.0050	0.0038		X522003	JPM	05/28/25 16:55	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X522050	JPM	05/29/25 16:34	
OIA 1677	**Cyanide (WAD)**	0.0102	mg/L	0.0050	0.0010		X522098	JPM	06/02/25 13:08	
SM 2310 B	**Acidity to pH 8.3**	35100	mg/L as CaCO3	10.0			X523021	MWD	06/02/25 15:33	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X522072	MWD	05/30/25 18:29	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X522072	MWD	05/30/25 18:29	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X522072	MWD	05/30/25 18:29	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X522072	MWD	05/30/25 18:29	
SM 2540 C	**Total Diss. Solids**	58000	mg/L	100			X522008	TJL	05/28/25 13:30	E11
SM 2540 D	**Total Susp. Solids**	95.0	mg/L	5.0			X522010	TJL	05/30/25 09:30	
SM 4500 H B	**pH @23.1°C**	2.9	pH Units				X522072	MWD	05/30/25 18:29	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT(TNI)**:ID000192015-1, **WA**:C573

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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: **X5E0313**
Reported: 06-Jun-25 12:02

Client Sample ID: **OSABH-117E**
SVL Sample ID: **X5E0313-01 (Ground Water)**

Sampled: 20-May-25 09:18
Received: 21-May-25
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	23.2	mg/L	10.0	1.10	50	X521148	RS	05/22/25 00:14	
EPA 300.0	**Fluoride**	620	mg/L	100	17.0	1000	X521148	RS	05/22/25 17:58	
EPA 300.0	**Nitrate as N**	4.39	mg/L	2.50	0.650	50	X521148	RS	05/22/25 00:14	D18
EPA 300.0	Nitrate+Nitrite as N	< 5.00	mg/L	5.00	2.20	50	X521148	RS	05/22/25 00:14	D18
EPA 300.0	Nitrite as N	< 2.50	mg/L	2.50	1.55	50	X521148	RS	05/22/25 00:14	D18
EPA 300.0	**Sulfate as SO4**	44700	mg/L	300	180	1000	X521148	RS	05/22/25 00:32	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 840 meq/L Anion Sum: 964 meq/L C/A Balance: -6.89 % Calculated TDS: 47375 TDS/cTDS: 1.22

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

Kristi A. Groth

Kristi A. Groth
Project Manager

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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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: **X5E0313**
Reported: 06-Jun-25 12:02

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	X522154	03-Jun-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X522154	03-Jun-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X522154	03-Jun-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X522006	04-Jun-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X522006	04-Jun-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X522006	04-Jun-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X522006	04-Jun-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X522006	04-Jun-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X522006	04-Jun-25	B7
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X522006	04-Jun-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X522006	04-Jun-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X522006	04-Jun-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X522006	04-Jun-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X522006	04-Jun-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X522006	04-Jun-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X522006	04-Jun-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X522006	04-Jun-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X522006	04-Jun-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X522006	04-Jun-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X522006	04-Jun-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X522006	04-Jun-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X522006	04-Jun-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X522006	04-Jun-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X522006	04-Jun-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X521236	28-May-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X521236	28-May-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X521236	28-May-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X521236	28-May-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X521236	28-May-25	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X521203	23-May-25	
Classical Chemistry Parameters								
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X522049	04-Jun-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X522003	28-May-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X522050	29-May-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X522098	02-Jun-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X523021	02-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X522072	30-May-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X522072	30-May-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X522072	30-May-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X522072	30-May-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X522008	28-May-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X522010	30-May-25	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X521148	21-May-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X521148	21-May-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X521148	21-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X521148	21-May-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X521148	21-May-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X521148	21-May-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: **X5E0313**
Reported: 06-Jun-25 12:02

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	19.8	20.0	99	85 - 115	X522154	03-Jun-25	
EPA 200.7	Magnesium	mg/L	19.8	20.0	99.1	85 - 115	X522154	03-Jun-25	
EPA 200.7	Potassium	mg/L	19.7	20.0	98.6	85 - 115	X522154	03-Jun-25	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.945	1.00	94.5	85 - 115	X522006	04-Jun-25	
EPA 200.7	Barium	mg/L	0.994	1.00	99.4	85 - 115	X522006	04-Jun-25	
EPA 200.7	Beryllium	mg/L	0.980	1.00	98.0	85 - 115	X522006	04-Jun-25	
EPA 200.7	Boron	mg/L	0.990	1.00	99.0	85 - 115	X522006	04-Jun-25	
EPA 200.7	Cadmium	mg/L	0.963	1.00	96.3	85 - 115	X522006	04-Jun-25	
EPA 200.7	Calcium	mg/L	18.9	20.0	94.6	85 - 115	X522006	04-Jun-25	B7
EPA 200.7	Chromium	mg/L	0.986	1.00	98.6	85 - 115	X522006	04-Jun-25	
EPA 200.7	Cobalt	mg/L	0.957	1.00	95.7	85 - 115	X522006	04-Jun-25	
EPA 200.7	Copper	mg/L	0.970	1.00	97.0	85 - 115	X522006	04-Jun-25	
EPA 200.7	Iron	mg/L	9.42	10.0	94.2	85 - 115	X522006	04-Jun-25	
EPA 200.7	Lead	mg/L	0.940	1.00	94.0	85 - 115	X522006	04-Jun-25	
EPA 200.7	Lithium	mg/L	0.945	1.00	94.5	85 - 115	X522006	04-Jun-25	
EPA 200.7	Magnesium	mg/L	18.1	20.0	90.5	85 - 115	X522006	04-Jun-25	
EPA 200.7	Manganese	mg/L	0.979	1.00	97.9	85 - 115	X522006	04-Jun-25	
EPA 200.7	Molybdenum	mg/L	0.965	1.00	96.5	85 - 115	X522006	04-Jun-25	
EPA 200.7	Nickel	mg/L	0.951	1.00	95.1	85 - 115	X522006	04-Jun-25	
EPA 200.7	Potassium	mg/L	19.9	20.0	99.4	85 - 115	X522006	04-Jun-25	
EPA 200.7	Silver	mg/L	0.0482	0.0500	96.4	85 - 115	X522006	04-Jun-25	
EPA 200.7	Sodium	mg/L	17.7	19.0	93.4	85 - 115	X522006	04-Jun-25	
EPA 200.7	Vanadium	mg/L	1.00	1.00	100	85 - 115	X522006	04-Jun-25	
EPA 200.7	Zinc	mg/L	0.964	1.00	96.4	85 - 115	X522006	04-Jun-25	
EPA 200.8	Antimony	mg/L	0.0234	0.0250	93.7	85 - 115	X521236	28-May-25	
EPA 200.8	Arsenic	mg/L	0.0222	0.0250	88.9	85 - 115	X521236	28-May-25	
EPA 200.8	Selenium	mg/L	0.0217	0.0250	86.8	85 - 115	X521236	28-May-25	
EPA 200.8	Thallium	mg/L	0.0229	0.0250	91.5	85 - 115	X521236	28-May-25	
EPA 200.8	Uranium	mg/L	0.0246	0.0250	98.3	85 - 115	X521236	28-May-25	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00211	0.00200	105	85 - 115	X521203	23-May-25	
Classical Chemistry Parameters									
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0997	0.100	99.7	90 - 110	X522049	04-Jun-25	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.100	103	90 - 110	X522003	28-May-25	
EPA 350.1	Ammonia as N	mg/L	0.933	1.00	93.3	90 - 110	X522050	29-May-25	
OIA 1677	Cyanide (WAD)	mg/L	0.100	0.100	100	90 - 110	X522098	02-Jun-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1170	1180	99.3	95.4 - 104	X523021	02-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.90	9.93	99.7	94 - 106	X522072	30-May-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	101	94 - 106	X522072	30-May-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	408	397	103	94 - 106	X522072	30-May-25	
SM 2540 C	Total Diss. Solids	mg/L	247	250	98.8	85 - 115	X522008	28-May-25	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X522010	30-May-25	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.03	3.00	101	90 - 110	X521148	21-May-25	
EPA 300.0	Fluoride	mg/L	2.00	2.00	99.8	90 - 110	X521148	21-May-25	
EPA 300.0	Nitrate as N	mg/L	2.03	2.00	101	90 - 110	X521148	21-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.64	4.50	103	90 - 110	X521148	21-May-25	
EPA 300.0	Nitrite as N	mg/L	2.61	2.50	105	90 - 110	X521148	21-May-25	
EPA 300.0	Sulfate as SO4	mg/L	9.80	10.0	98.0	90 - 110	X521148	21-May-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: **X5E0313**
Reported: 06-Jun-25 12:02

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 CaCO3	6240	6250	0.2	20	X523021 - X5E0312-01	02-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	500	501	0.1	20	X522072 - X5E0294-03	30-May-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	500	501	0.1	20	X522072 - X5E0294-03	30-May-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X522072 - X5E0294-03	30-May-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X522072 - X5E0294-03	30-May-25	
SM 2540 C	Total Diss. Solids	mg/L	1030	1030	0.1	10	X522008 - X5E0368-02	28-May-25	
SM 2540 C	Total Diss. Solids	mg/L	93	93	0.0	10	X522008 - X5E0308-01	28-May-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X522010 - X5E0308-01	30-May-25	
SM 4500 H B	pH @23.0°C	pH Units	6.9	7.0	1.4	20	X522072 - X5E0294-03	30-May-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	415	434	20.0	0.30R>S	70 - 130	X522154 - X5E0312-01	03-Jun-25	D18,M4
EPA 200.7	Magnesium	mg/L	399	420	20.0	0.30R>S	70 - 130	X522154 - X5E0312-01	03-Jun-25	D18,M4
EPA 200.7	Potassium	mg/L	19.6	<5.00	20.0	98.2	70 - 130	X522154 - X5E0312-01	03-Jun-25	D18
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1010	1030	1.00	0.30R>S	70 - 130	X522006 - X5E0312-01	04-Jun-25	M4
EPA 200.7	Aluminum	mg/L	405	407	1.00	0.30R>S	70 - 130	X522006 - X5E0361-01	04-Jun-25	M3
EPA 200.7	Barium	mg/L	1.01	0.0091	1.00	99.8	70 - 130	X522006 - X5E0312-01	04-Jun-25	
EPA 200.7	Barium	mg/L	1.04	0.0113	1.00	102	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Beryllium	mg/L	1.76	0.720	1.00	104	70 - 130	X522006 - X5E0312-01	04-Jun-25	
EPA 200.7	Beryllium	mg/L	1.63	0.623	1.00	100	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Boron	mg/L	1.10	<0.0400	1.00	107	70 - 130	X522006 - X5E0312-01	04-Jun-25	
EPA 200.7	Boron	mg/L	1.06	<0.0400	1.00	104	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Cadmium	mg/L	3.06	2.10	1.00	96.1	70 - 130	X522006 - X5E0312-01	04-Jun-25	
EPA 200.7	Cadmium	mg/L	1.32	0.348	1.00	97.2	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Calcium	mg/L	438	416	20.0	106	70 - 130	X522006 - X5E0312-01	04-Jun-25	B7
EPA 200.7	Calcium	mg/L	507	476	20.0	0.30R>S	70 - 130	X522006 - X5E0361-01	04-Jun-25	B7,M3
EPA 200.7	Chromium	mg/L	1.15	0.143	1.00	100	70 - 130	X522006 - X5E0312-01	04-Jun-25	
EPA 200.7	Chromium	mg/L	1.28	0.295	1.00	98.6	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Cobalt	mg/L	2.84	1.87	1.00	96.9	70 - 130	X522006 - X5E0312-01	04-Jun-25	
EPA 200.7	Cobalt	mg/L	1.59	0.628	1.00	96.3	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Copper	mg/L	6.24	5.06	1.00	118	70 - 130	X522006 - X5E0312-01	04-Jun-25	
EPA 200.7	Copper	mg/L	1.41	0.283	1.00	113	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Iron	mg/L	61.2	51.6	10.0	95.3	70 - 130	X522006 - X5E0312-01	04-Jun-25	
EPA 200.7	Iron	mg/L	34.0	23.6	10.0	104	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Lead	mg/L	0.975	<0.0375	1.00	97.5	70 - 130	X522006 - X5E0312-01	04-Jun-25	D18
EPA 200.7	Lead	mg/L	0.937	<0.0075	1.00	93.1	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Lithium	mg/L	1.85	0.509	1.00	134	70 - 130	X522006 - X5E0312-01	04-Jun-25	M1
EPA 200.7	Lithium	mg/L	1.61	0.373	1.00	124	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Magnesium	mg/L	395	392	20.0	0.30R>S	70 - 130	X522006 - X5E0312-01	04-Jun-25	D18,M4
EPA 200.7	Magnesium	mg/L	336	320	20.0	80.3	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Manganese	mg/L	68.0	67.3	1.00	76.9	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Manganese	mg/L	293	289	1.00	0.30R>S	70 - 130	X522006 - X5E0312-01	04-Jun-25	D18,M4
EPA 200.7	Molybdenum	mg/L	1.00	<0.0080	1.00	100	70 - 130	X522006 - X5E0312-01	04-Jun-25	
EPA 200.7	Molybdenum	mg/L	0.978	<0.0080	1.00	97.8	70 - 130	X522006 - X5E0361-01	04-Jun-25	

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

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X5E0313**
Reported: 06-Jun-25 12:02

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	Nickel	mg/L	4.13	3.15	1.00	98.0	70 - 130	X522006 - X5E0312-01	04-Jun-25	
EPA 200.7	Nickel	mg/L	2.73	1.76	1.00	97.4	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Potassium	mg/L	23.0	1.04	20.0	110	70 - 130	X522006 - X5E0312-01	04-Jun-25	
EPA 200.7	Potassium	mg/L	23.7	1.69	20.0	110	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Silver	mg/L	0.0362	<0.0250	0.0500	72.3	70 - 130	X522006 - X5E0312-01	04-Jun-25	D18
EPA 200.7	Silver	mg/L	0.0475	<0.0050	0.0500	94.9	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Sodium	mg/L	52.0	34.7	19.0	91.3	70 - 130	X522006 - X5E0312-01	04-Jun-25	D18
EPA 200.7	Sodium	mg/L	54.5	35.3	19.0	101	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Vanadium	mg/L	1.06	<0.0050	1.00	106	70 - 130	X522006 - X5E0312-01	04-Jun-25	
EPA 200.7	Vanadium	mg/L	1.04	<0.0050	1.00	104	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Zinc	mg/L	7.05	6.04	1.00	102	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Zinc	mg/L	81.0	80.3	1.00	0.30R>S	70 - 130	X522006 - X5E0312-01	04-Jun-25	D18,M4
EPA 200.8	Antimony	mg/L	0.0253	<0.00100	0.0250	101	70 - 130	X521236 - X5E0284-01	28-May-25	
EPA 200.8	Antimony	mg/L	0.0266	<0.00100	0.0250	106	70 - 130	X521236 - X5E0312-05	28-May-25	
EPA 200.8	Arsenic	mg/L	0.0513	0.0251	0.0250	105	70 - 130	X521236 - X5E0284-01	28-May-25	
EPA 200.8	Arsenic	mg/L	0.0738	0.0434	0.0250	122	70 - 130	X521236 - X5E0312-05	28-May-25	
EPA 200.8	Selenium	mg/L	0.0263	0.00189	0.0250	97.8	70 - 130	X521236 - X5E0284-01	28-May-25	
EPA 200.8	Selenium	mg/L	0.0314	0.00759	0.0250	95.1	70 - 130	X521236 - X5E0312-05	28-May-25	
EPA 200.8	Thallium	mg/L	0.0263	0.000209	0.0250	104	70 - 130	X521236 - X5E0284-01	28-May-25	
EPA 200.8	Thallium	mg/L	0.0315	<0.000200	0.0250	126	70 - 130	X521236 - X5E0312-05	28-May-25	
EPA 200.8	Uranium	mg/L	0.463	0.446	0.0250	0.30R>S	70 - 130	X521236 - X5E0284-01	28-May-25	M3
EPA 200.8	Uranium	mg/L	1.78	1.67	0.0250	0.30R>S	70 - 130	X521236 - X5E0312-05	28-May-25	M3
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00212	<0.000200	0.00200	106	70 - 130	X521203 - X5E0308-01	23-May-25	
EPA 245.1	Mercury	mg/L	0.00211	<0.000200	0.00200	96.9	70 - 130	X521203 - X5E0313-01	23-May-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.122	<0.0050	0.100	122	79 - 121	X522049 - X5E0350-01	04-Jun-25	M1
EPA 335.4	Cyanide (total)	mg/L	0.0743	<0.0050	0.100	74.3	90 - 110	X522003 - X5E0287-02	28-May-25	M2,R2B
EPA 335.4	Cyanide (total)	mg/L	0.100	<0.0050	0.100	100	90 - 110	X522003 - X5E0287-01	28-May-25	
EPA 350.1	Ammonia as N	mg/L	0.958	<0.030	1.00	95.8	90 - 110	X522050 - X5E0296-02	29-May-25	
EPA 350.1	Ammonia as N	mg/L	0.974	0.085	1.00	89.0	90 - 110	X522050 - X5E0296-01	29-May-25	M2
OIA 1677	Cyanide (WAD)	mg/L	0.102	<0.0050	0.100	102	82 - 118	X522098 - X5E0414-01	02-Jun-25	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	10.9	8.09	3.00	93.3	90 - 110	X521148 - X5E0328-04	21-May-25	
EPA 300.0	Chloride	mg/L	3.09	<0.20	3.00	97.6	90 - 110	X521148 - X5E0328-05	21-May-25	
EPA 300.0	Fluoride	mg/L	1.96	<0.100	2.00	96.0	90 - 110	X521148 - X5E0328-04	21-May-25	
EPA 300.0	Fluoride	mg/L	1.97	<0.100	2.00	96.4	90 - 110	X521148 - X5E0328-05	21-May-25	
EPA 300.0	Nitrate as N	mg/L	1.99	<0.050	2.00	97.9	90 - 110	X521148 - X5E0328-04	21-May-25	
EPA 300.0	Nitrate as N	mg/L	1.99	<0.050	2.00	99.6	90 - 110	X521148 - X5E0328-05	21-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.98	<0.100	4.00	99.5	90 - 110	X521148 - X5E0328-04	21-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.00	<0.100	4.00	100	90 - 110	X521148 - X5E0328-05	21-May-25	
EPA 300.0	Nitrite as N	mg/L	1.99	<0.050	2.00	99.6	90 - 110	X521148 - X5E0328-04	21-May-25	
EPA 300.0	Nitrite as N	mg/L	2.01	<0.050	2.00	100	90 - 110	X521148 - X5E0328-05	21-May-25	
EPA 300.0	Sulfate as SO4	mg/L	11.0	1.25	10.0	97.1	90 - 110	X521148 - X5E0328-04	21-May-25	
EPA 300.0	Sulfate as SO4	mg/L	10.4	0.73	10.0	96.6	90 - 110	X521148 - X5E0328-05	21-May-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: **X5E0313**
Reported: 06-Jun-25 12:02

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	465	415	20.0	11.0	20	0.30R>S	X522154 - X5E0312-01	D18,M4
EPA 200.7	Magnesium	mg/L	459	399	20.0	14.0	20	0.30R>S	X522154 - X5E0312-01	D18,M4
EPA 200.7	Potassium	mg/L	22.6	19.6	20.0	13.9	20	113	X522154 - X5E0312-01	D18
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1040	1010	1.00	2.8	20	0.30R>S	X522006 - X5E0312-01	M4
EPA 200.7	Barium	mg/L	0.980	1.01	1.00	2.8	20	97.1	X522006 - X5E0312-01	
EPA 200.7	Beryllium	mg/L	1.74	1.76	1.00	1.0	20	102	X522006 - X5E0312-01	
EPA 200.7	Boron	mg/L	1.07	1.10	1.00	2.4	20	104	X522006 - X5E0312-01	
EPA 200.7	Cadmium	mg/L	3.00	3.06	1.00	2.0	20	90.1	X522006 - X5E0312-01	
EPA 200.7	Calcium	mg/L	427	438	20.0	2.4	20	0.30R>S	X522006 - X5E0312-01	B7,M3
EPA 200.7	Chromium	mg/L	1.12	1.15	1.00	2.1	20	98.1	X522006 - X5E0312-01	
EPA 200.7	Cobalt	mg/L	2.78	2.84	1.00	1.9	20	91.5	X522006 - X5E0312-01	
EPA 200.7	Copper	mg/L	6.10	6.24	1.00	2.2	20	104	X522006 - X5E0312-01	
EPA 200.7	Iron	mg/L	59.6	61.2	10.0	2.6	20	79.8	X522006 - X5E0312-01	
EPA 200.7	Lead	mg/L	0.991	0.975	1.00	1.6	20	99.1	X522006 - X5E0312-01	D18
EPA 200.7	Lithium	mg/L	1.81	1.85	1.00	2.2	20	130	X522006 - X5E0312-01	
EPA 200.7	Magnesium	mg/L	404	395	20.0	2.4	20	0.30R>S	X522006 - X5E0312-01	D18,M4
EPA 200.7	Manganese	mg/L	293	293	1.00	0.1	20	0.30R>S	X522006 - X5E0312-01	M4
EPA 200.7	Molybdenum	mg/L	0.980	1.00	1.00	2.4	20	98.0	X522006 - X5E0312-01	
EPA 200.7	Nickel	mg/L	4.05	4.13	1.00	1.9	20	90.1	X522006 - X5E0312-01	
EPA 200.7	Potassium	mg/L	22.6	23.0	20.0	1.7	20	108	X522006 - X5E0312-01	
EPA 200.7	Silver	mg/L	0.0362	0.0362	0.0500	0.2	20	72.5	X522006 - X5E0312-01	D18
EPA 200.7	Sodium	mg/L	52.8	52.0	19.0	1.5	20	95.3	X522006 - X5E0312-01	D18
EPA 200.7	Vanadium	mg/L	1.04	1.06	1.00	2.0	20	104	X522006 - X5E0312-01	
EPA 200.7	Zinc	mg/L	82.5	81.0	1.00	1.9	20	0.30R>S	X522006 - X5E0312-01	D18,M4
EPA 200.8	Antimony	mg/L	0.0265	0.0253	0.0250	4.9	20	106	X521236 - X5E0284-01	
EPA 200.8	Arsenic	mg/L	0.0527	0.0513	0.0250	2.7	20	110	X521236 - X5E0284-01	
EPA 200.8	Selenium	mg/L	0.0268	0.0263	0.0250	1.9	20	99.8	X521236 - X5E0284-01	
EPA 200.8	Thallium	mg/L	0.0267	0.0263	0.0250	1.5	20	106	X521236 - X5E0284-01	
EPA 200.8	Uranium	mg/L	0.489	0.463	0.0250	5.5	20	0.30R>S	X521236 - X5E0284-01	M3
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00210	0.00212	0.00200	1.0	20	105	X521203 - X5E0308-01	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.130	0.122	0.100	5.9	11	130	X522049 - X5E0350-01	M1
EPA 335.4	Cyanide (total)	mg/L	0.109	0.0743	0.100	37.8	20	109	X522003 - X5E0287-02	R2B
EPA 350.1	Ammonia as N	mg/L	1.02	0.958	1.00	6.5	20	102	X522050 - X5E0296-02	
OIA 1677	Cyanide (WAD)	mg/L	0.104	0.102	0.100	2.2	11	104	X522098 - X5E0414-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	10.9	10.9	3.00	0.4	20	94.8	X521148 - X5E0328-04	
EPA 300.0	Fluoride	mg/L	2.00	1.96	2.00	1.8	20	97.7	X521148 - X5E0328-04	
EPA 300.0	Nitrate as N	mg/L	2.02	1.99	2.00	1.8	20	99.7	X521148 - X5E0328-04	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.05	3.98	4.00	1.8	20	101	X521148 - X5E0328-04	
EPA 300.0	Nitrite as N	mg/L	2.03	1.99	2.00	1.8	20	101	X521148 - X5E0328-04	
EPA 300.0	Sulfate as SO4	mg/L	11.1	11.0	10.0	1.3	20	98.6	X521148 - X5E0328-04	

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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: **X5E0313**
Cripple Creek, CO 80813	Reported: 06-Jun-25 12:02

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.
D11	Due to sample color, a sample dilution was performed to minimize spectral interference.
D18	Due to a published chemical interference, a sample dilution was performed.
E11	Sample exceeds method-specified limit for solids content.
H1	Sample analysis performed past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
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.
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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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: **X5E0361**
Reported: 06-Jun-25 12:36

Client Sample ID: **GVMW-30**
SVL Sample ID: **X5E0361-01 (Ground Water)**

Sampled: 21-May-25 08:30
Received: 22-May-25
Sampled By: JC

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**	459	mg/L	0.200	0.138	2	X522154	MAC	06/03/25 13:57	
EPA 200.7	**Magnesium**	325	mg/L	0.500	0.090		X522154	MAC	06/03/25 13:35	
EPA 200.7	**Potassium**	1.63	mg/L	0.50	0.18		X522154	MAC	06/03/25 13:35	
SM 2340 B	**Hardness (as CaCO3)**	2490	mg/L	2.56	0.715		N/A		06/04/25 15:39	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	407	mg/L	0.080	0.054		X522006	MAC	06/04/25 15:39	M3
EPA 200.7	**Barium**	0.0113	mg/L	0.0020	0.0019		X522006	MAC	06/04/25 12:03	
EPA 200.7	**Beryllium**	0.623	mg/L	0.00200	0.00080		X522006	MAC	06/04/25 12:03	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X522006	MAC	06/04/25 12:03	
EPA 200.7	**Cadmium**	0.348	mg/L	0.0020	0.0016		X522006	MAC	06/04/25 12:03	
EPA 200.7	**Calcium**	476	mg/L	0.100	0.069		X522006	MAC	06/04/25 12:03	B7,M3
EPA 200.7	**Chromium**	0.295	mg/L	0.0060	0.0020		X522006	MAC	06/04/25 12:03	
EPA 200.7	**Cobalt**	0.628	mg/L	0.0060	0.0046		X522006	MAC	06/04/25 12:03	
EPA 200.7	**Copper**	0.283	mg/L	0.0100	0.0027		X522006	MAC	06/04/25 12:03	
EPA 200.7	**Iron**	23.6	mg/L	0.100	0.056		X522006	MAC	06/04/25 12:03	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X522006	MAC	06/04/25 15:39	
EPA 200.7	**Lithium**	0.373	mg/L	0.040	0.025		X522006	MAC	06/04/25 12:03	
EPA 200.7	**Magnesium**	320	mg/L	0.500	0.090		X522006	MAC	06/04/25 15:39	
EPA 200.7	**Manganese**	67.3	mg/L	0.0080	0.0034		X522006	MAC	06/04/25 12:03	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X522006	MAC	06/04/25 12:03	
EPA 200.7	**Nickel**	1.76	mg/L	0.0100	0.0048		X522006	MAC	06/04/25 12:03	
EPA 200.7	**Potassium**	1.69	mg/L	0.50	0.18		X522006	MAC	06/04/25 12:03	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X522006	MAC	06/04/25 15:39	
EPA 200.7	**Sodium**	35.3	mg/L	0.50	0.12		X522006	MAC	06/04/25 15:39	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X522006	MAC	06/04/25 12:03	
EPA 200.7	**Zinc**	6.04	mg/L	0.0100	0.0054		X522006	MAC	06/04/25 12:03	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X521236	SMU	05/28/25 14:34	
EPA 200.8	**Arsenic**	0.0666	mg/L	0.00100	0.00021		X521236	SMU	05/28/25 14:34	
EPA 200.8	**Selenium**	0.00591	mg/L	0.00100	0.00024		X521236	SMU	05/28/25 14:34	
EPA 200.8	Thallium	< 0.000400	mg/L	0.000400	0.000160	2	X521236	SMU	05/28/25 14:59	D17
EPA 200.8	**Uranium**	0.845	mg/L	0.000200	0.000104	2	X521236	SMU	05/28/25 14:59	D17
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X521263	SJN	06/02/25 18:47	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X522049	JPM	06/04/25 18:40	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X522003	JPM	05/28/25 16:57	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X522052	JPM	05/30/25 20:56	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X522098	JPM	06/02/25 13:11	
SM 2310 B	**Acidity to pH 8.3**	2510	mg/L as CaCO3	10.0			X523021	MWD	06/02/25 15:33	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X522072	MWD	05/30/25 18:34	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X522072	MWD	05/30/25 18:34	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X522072	MWD	05/30/25 18:34	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X522072	MWD	05/30/25 18:34	
SM 2540 C	**Total Diss. Solids**	7000	mg/L	40			X522019	TJL	05/28/25 13:50	
SM 2540 D	**Total Susp. Solids**	16.0	mg/L	5.0			X522020	TJL	05/30/25 10:00	
SM 4500 H B	**pH @23.0°C**	3.1	pH Units				X522072	MWD	05/30/25 18:34	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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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: **X5E0361**
Reported: 06-Jun-25 12:36

Client Sample ID: **GVMW-30**
SVL Sample ID: **X5E0361-01 (Ground Water)**

Sampled: 21-May-25 08:30
Received: 22-May-25
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	2.52	mg/L	1.00	0.11	5	X521212	RS	05/22/25 22:56	D18
EPA 300.0	**Fluoride**	23.0	mg/L	0.500	0.085	5	X521212	RS	05/22/25 22:56	
EPA 300.0	**Nitrate as N**	2.32	mg/L	0.250	0.065	5	X521212	RS	05/22/25 22:56	D18
EPA 300.0	**Nitrate+Nitrite as N**	2.32	mg/L	0.500	0.220	5	X521212	RS	05/22/25 22:56	D18
EPA 300.0	Nitrite as N	< 0.250	mg/L	0.250	0.155	5	X521212	RS	05/22/25 22:56	D18
EPA 300.0	**Sulfate as SO4**	4870	mg/L	30.0	18.0	100	X521212	RS	05/22/25 23:11	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 101 meq/L Anion Sum: 103 meq/L C/A Balance: -0.90 % Calculated TDS: 5733 TDS/cTDS: 1.22

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

Kristi A. Groth

Kristi A. Groth
Project Manager

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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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: **X5E0361**
Reported: 06-Jun-25 12:36

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	X522154	03-Jun-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X522154	03-Jun-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X522154	03-Jun-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X522006	04-Jun-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X522006	04-Jun-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X522006	04-Jun-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X522006	04-Jun-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X522006	04-Jun-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X522006	04-Jun-25	B7
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X522006	04-Jun-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X522006	04-Jun-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X522006	04-Jun-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X522006	04-Jun-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X522006	04-Jun-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X522006	04-Jun-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X522006	04-Jun-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X522006	04-Jun-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X522006	04-Jun-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X522006	04-Jun-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X522006	04-Jun-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X522006	04-Jun-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X522006	04-Jun-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X522006	04-Jun-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X522006	04-Jun-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X521236	28-May-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X521236	28-May-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X521236	28-May-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X521236	28-May-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X521236	28-May-25	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X521263	02-Jun-25	
Classical Chemistry Parameters								
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X522049	04-Jun-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X522003	28-May-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X522052	30-May-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X522098	02-Jun-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X523021	02-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X522072	30-May-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X522072	30-May-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X522072	30-May-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X522072	30-May-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X522019	28-May-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X522020	30-May-25	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X521212	22-May-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X521212	22-May-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X521212	22-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X521212	22-May-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X521212	22-May-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X521212	22-May-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: **X5E0361**
Reported: 06-Jun-25 12:36

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	19.8	20.0	99	85 - 115	X522154	03-Jun-25	
EPA 200.7	Magnesium	mg/L	19.8	20.0	99.1	85 - 115	X522154	03-Jun-25	
EPA 200.7	Potassium	mg/L	19.7	20.0	98.6	85 - 115	X522154	03-Jun-25	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.945	1.00	94.5	85 - 115	X522006	04-Jun-25	
EPA 200.7	Barium	mg/L	0.994	1.00	99.4	85 - 115	X522006	04-Jun-25	
EPA 200.7	Beryllium	mg/L	0.980	1.00	98.0	85 - 115	X522006	04-Jun-25	
EPA 200.7	Boron	mg/L	0.990	1.00	99.0	85 - 115	X522006	04-Jun-25	
EPA 200.7	Cadmium	mg/L	0.963	1.00	96.3	85 - 115	X522006	04-Jun-25	
EPA 200.7	Calcium	mg/L	18.9	20.0	94.6	85 - 115	X522006	04-Jun-25	B7
EPA 200.7	Chromium	mg/L	0.986	1.00	98.6	85 - 115	X522006	04-Jun-25	
EPA 200.7	Cobalt	mg/L	0.957	1.00	95.7	85 - 115	X522006	04-Jun-25	
EPA 200.7	Copper	mg/L	0.970	1.00	97.0	85 - 115	X522006	04-Jun-25	
EPA 200.7	Iron	mg/L	9.42	10.0	94.2	85 - 115	X522006	04-Jun-25	
EPA 200.7	Lead	mg/L	0.940	1.00	94.0	85 - 115	X522006	04-Jun-25	
EPA 200.7	Lithium	mg/L	0.945	1.00	94.5	85 - 115	X522006	04-Jun-25	
EPA 200.7	Magnesium	mg/L	18.1	20.0	90.5	85 - 115	X522006	04-Jun-25	
EPA 200.7	Manganese	mg/L	0.979	1.00	97.9	85 - 115	X522006	04-Jun-25	
EPA 200.7	Molybdenum	mg/L	0.965	1.00	96.5	85 - 115	X522006	04-Jun-25	
EPA 200.7	Nickel	mg/L	0.951	1.00	95.1	85 - 115	X522006	04-Jun-25	
EPA 200.7	Potassium	mg/L	19.9	20.0	99.4	85 - 115	X522006	04-Jun-25	
EPA 200.7	Silver	mg/L	0.0482	0.0500	96.4	85 - 115	X522006	04-Jun-25	
EPA 200.7	Sodium	mg/L	17.7	19.0	93.4	85 - 115	X522006	04-Jun-25	
EPA 200.7	Vanadium	mg/L	1.00	1.00	100	85 - 115	X522006	04-Jun-25	
EPA 200.7	Zinc	mg/L	0.964	1.00	96.4	85 - 115	X522006	04-Jun-25	
EPA 200.8	Antimony	mg/L	0.0234	0.0250	93.7	85 - 115	X521236	28-May-25	
EPA 200.8	Arsenic	mg/L	0.0222	0.0250	88.9	85 - 115	X521236	28-May-25	
EPA 200.8	Selenium	mg/L	0.0217	0.0250	86.8	85 - 115	X521236	28-May-25	
EPA 200.8	Thallium	mg/L	0.0229	0.0250	91.5	85 - 115	X521236	28-May-25	
EPA 200.8	Uranium	mg/L	0.0246	0.0250	98.3	85 - 115	X521236	28-May-25	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00196	0.00200	97.9	85 - 115	X521263	02-Jun-25	
Classical Chemistry Parameters									
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0997	0.100	99.7	90 - 110	X522049	04-Jun-25	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.100	103	90 - 110	X522003	28-May-25	
EPA 350.1	Ammonia as N	mg/L	1.03	1.00	103	90 - 110	X522052	30-May-25	
OIA 1677	Cyanide (WAD)	mg/L	0.100	0.100	100	90 - 110	X522098	02-Jun-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1170	1180	99.3	95.4 - 104	X523021	02-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.90	9.93	99.7	94 - 106	X522072	30-May-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	101	94 - 106	X522072	30-May-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	408	397	103	94 - 106	X522072	30-May-25	
SM 2540 C	Total Diss. Solids	mg/L	241	250	96.4	85 - 115	X522019	28-May-25	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X522020	30-May-25	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.94	3.00	98.1	90 - 110	X521212	22-May-25	
EPA 300.0	Fluoride	mg/L	1.99	2.00	99.7	90 - 110	X521212	22-May-25	
EPA 300.0	Nitrate as N	mg/L	1.96	2.00	98.2	90 - 110	X521212	22-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.49	4.50	99.8	90 - 110	X521212	22-May-25	
EPA 300.0	Nitrite as N	mg/L	2.53	2.50	101	90 - 110	X521212	22-May-25	
EPA 300.0	Sulfate as SO4	mg/L	9.94	10.0	99.4	90 - 110	X521212	22-May-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: **X5E0361**
Reported: 06-Jun-25 12:36

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	6240	6250	0.2	20	X523021 - X5E0312-01	02-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	500	501	0.1	20	X522072 - X5E0294-03	30-May-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	500	501	0.1	20	X522072 - X5E0294-03	30-May-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X522072 - X5E0294-03	30-May-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X522072 - X5E0294-03	30-May-25	
SM 2540 C	Total Diss. Solids	mg/L	254	246	3.2	10	X522019 - X5E0346-01	28-May-25	
SM 2540 C	Total Diss. Solids	mg/L	261	262	0.4	10	X522019 - X5E0328-02	28-May-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X522020 - X5E0328-02	30-May-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X522020 - X5E0346-01	30-May-25	
SM 4500 H B	pH @23.0°C	pH Units	6.9	7.0	1.4	20	X522072 - X5E0294-03	30-May-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	415	434	20.0	0.30R>S	70 - 130	X522154 - X5E0312-01	03-Jun-25	D18,M4
EPA 200.7	Magnesium	mg/L	399	420	20.0	0.30R>S	70 - 130	X522154 - X5E0312-01	03-Jun-25	D18,M4
EPA 200.7	Potassium	mg/L	19.6	<5.00	20.0	98.2	70 - 130	X522154 - X5E0312-01	03-Jun-25	D18
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1010	1030	1.00	0.30R>S	70 - 130	X522006 - X5E0312-01	04-Jun-25	M4
EPA 200.7	Aluminum	mg/L	405	407	1.00	0.30R>S	70 - 130	X522006 - X5E0361-01	04-Jun-25	M3
EPA 200.7	Barium	mg/L	1.01	0.0091	1.00	99.8	70 - 130	X522006 - X5E0312-01	04-Jun-25	
EPA 200.7	Barium	mg/L	1.04	0.0113	1.00	102	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Beryllium	mg/L	1.76	0.720	1.00	104	70 - 130	X522006 - X5E0312-01	04-Jun-25	
EPA 200.7	Beryllium	mg/L	1.63	0.623	1.00	100	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Boron	mg/L	1.10	<0.0400	1.00	107	70 - 130	X522006 - X5E0312-01	04-Jun-25	
EPA 200.7	Boron	mg/L	1.06	<0.0400	1.00	104	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Cadmium	mg/L	3.06	2.10	1.00	96.1	70 - 130	X522006 - X5E0312-01	04-Jun-25	
EPA 200.7	Cadmium	mg/L	1.32	0.348	1.00	97.2	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Calcium	mg/L	438	416	20.0	106	70 - 130	X522006 - X5E0312-01	04-Jun-25	B7
EPA 200.7	Calcium	mg/L	507	476	20.0	0.30R>S	70 - 130	X522006 - X5E0361-01	04-Jun-25	B7,M3
EPA 200.7	Chromium	mg/L	1.15	0.143	1.00	100	70 - 130	X522006 - X5E0312-01	04-Jun-25	
EPA 200.7	Chromium	mg/L	1.28	0.295	1.00	98.6	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Cobalt	mg/L	2.84	1.87	1.00	96.9	70 - 130	X522006 - X5E0312-01	04-Jun-25	
EPA 200.7	Cobalt	mg/L	1.59	0.628	1.00	96.3	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Copper	mg/L	6.24	5.06	1.00	118	70 - 130	X522006 - X5E0312-01	04-Jun-25	
EPA 200.7	Copper	mg/L	1.41	0.283	1.00	113	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Iron	mg/L	61.2	51.6	10.0	95.3	70 - 130	X522006 - X5E0312-01	04-Jun-25	
EPA 200.7	Iron	mg/L	34.0	23.6	10.0	104	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Lead	mg/L	0.975	<0.0375	1.00	97.5	70 - 130	X522006 - X5E0312-01	04-Jun-25	D18
EPA 200.7	Lead	mg/L	0.937	<0.0075	1.00	93.1	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Lithium	mg/L	1.85	0.509	1.00	134	70 - 130	X522006 - X5E0312-01	04-Jun-25	M1
EPA 200.7	Lithium	mg/L	1.61	0.373	1.00	124	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Magnesium	mg/L	395	392	20.0	0.30R>S	70 - 130	X522006 - X5E0312-01	04-Jun-25	D18,M4
EPA 200.7	Magnesium	mg/L	336	320	20.0	80.3	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Manganese	mg/L	68.0	67.3	1.00	76.9	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Manganese	mg/L	293	289	1.00	0.30R>S	70 - 130	X522006 - X5E0312-01	04-Jun-25	D18,M4
EPA 200.7	Molybdenum	mg/L	1.00	<0.0080	1.00	100	70 - 130	X522006 - X5E0312-01	04-Jun-25	

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

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X5E0361**
Reported: 06-Jun-25 12:36

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Molybdenum	mg/L	0.978	<0.0080	1.00	97.8	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Nickel	mg/L	4.13	3.15	1.00	98.0	70 - 130	X522006 - X5E0312-01	04-Jun-25	
EPA 200.7	Nickel	mg/L	2.73	1.76	1.00	97.4	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Potassium	mg/L	23.0	1.04	20.0	110	70 - 130	X522006 - X5E0312-01	04-Jun-25	
EPA 200.7	Potassium	mg/L	23.7	1.69	20.0	110	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Silver	mg/L	0.0362	<0.0250	0.0500	72.3	70 - 130	X522006 - X5E0312-01	04-Jun-25	D18
EPA 200.7	Silver	mg/L	0.0475	<0.0050	0.0500	94.9	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Sodium	mg/L	52.0	34.7	19.0	91.3	70 - 130	X522006 - X5E0312-01	04-Jun-25	D18
EPA 200.7	Sodium	mg/L	54.5	35.3	19.0	101	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Vanadium	mg/L	1.06	<0.0050	1.00	106	70 - 130	X522006 - X5E0312-01	04-Jun-25	
EPA 200.7	Vanadium	mg/L	1.04	<0.0050	1.00	104	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Zinc	mg/L	7.05	6.04	1.00	102	70 - 130	X522006 - X5E0361-01	04-Jun-25	
EPA 200.7	Zinc	mg/L	81.0	80.3	1.00	0.30R>S	70 - 130	X522006 - X5E0312-01	04-Jun-25	D18,M4
EPA 200.8	Antimony	mg/L	0.0253	<0.00100	0.0250	101	70 - 130	X521236 - X5E0284-01	28-May-25	
EPA 200.8	Antimony	mg/L	0.0266	<0.00100	0.0250	106	70 - 130	X521236 - X5E0312-05	28-May-25	
EPA 200.8	Arsenic	mg/L	0.0513	0.0251	0.0250	105	70 - 130	X521236 - X5E0284-01	28-May-25	
EPA 200.8	Arsenic	mg/L	0.0738	0.0434	0.0250	122	70 - 130	X521236 - X5E0312-05	28-May-25	
EPA 200.8	Selenium	mg/L	0.0263	0.00189	0.0250	97.8	70 - 130	X521236 - X5E0284-01	28-May-25	
EPA 200.8	Selenium	mg/L	0.0314	0.00759	0.0250	95.1	70 - 130	X521236 - X5E0312-05	28-May-25	
EPA 200.8	Thallium	mg/L	0.0263	0.000209	0.0250	104	70 - 130	X521236 - X5E0284-01	28-May-25	
EPA 200.8	Thallium	mg/L	0.0315	<0.000200	0.0250	126	70 - 130	X521236 - X5E0312-05	28-May-25	
EPA 200.8	Uranium	mg/L	0.463	0.446	0.0250	0.30R>S	70 - 130	X521236 - X5E0284-01	28-May-25	M3
EPA 200.8	Uranium	mg/L	1.78	1.67	0.0250	0.30R>S	70 - 130	X521236 - X5E0312-05	28-May-25	M3
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00200	<0.000200	0.00200	99.9	70 - 130	X521263 - X5E0348-01	02-Jun-25	
EPA 245.1	Mercury	mg/L	0.00201	<0.000200	0.00200	100	70 - 130	X521263 - X5E0361-01	02-Jun-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.122	<0.0050	0.100	122	79 - 121	X522049 - X5E0350-01	04-Jun-25	M1
EPA 335.4	Cyanide (total)	mg/L	0.0743	<0.0050	0.100	74.3	90 - 110	X522003 - X5E0287-02	28-May-25	M2,R2B
EPA 335.4	Cyanide (total)	mg/L	0.100	<0.0050	0.100	100	90 - 110	X522003 - X5E0287-01	28-May-25	
EPA 350.1	Ammonia as N	mg/L	1.05	0.134	1.00	91.6	90 - 110	X522052 - X5E0396-02	30-May-25	
EPA 350.1	Ammonia as N	mg/L	1.07	0.142	1.00	92.7	90 - 110	X522052 - X5E0396-01	30-May-25	
OIA 1677	Cyanide (WAD)	mg/L	0.102	<0.0050	0.100	102	82 - 118	X522098 - X5E0414-01	02-Jun-25	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.55	1.62	3.00	97.6	90 - 110	X521212 - X5E0350-03	22-May-25	
EPA 300.0	Chloride	mg/L	4.51	1.50	3.00	100	90 - 110	X521212 - X5E0350-04	22-May-25	
EPA 300.0	Fluoride	mg/L	2.06	<0.100	2.00	98.8	90 - 110	X521212 - X5E0350-03	22-May-25	
EPA 300.0	Fluoride	mg/L	2.04	<0.100	2.00	99.8	90 - 110	X521212 - X5E0350-04	22-May-25	
EPA 300.0	Nitrate as N	mg/L	2.08	0.106	2.00	98.8	90 - 110	X521212 - X5E0350-03	22-May-25	
EPA 300.0	Nitrate as N	mg/L	2.08	0.088	2.00	99.6	90 - 110	X521212 - X5E0350-04	22-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.09	0.110	4.00	99.4	90 - 110	X521212 - X5E0350-03	22-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.10	<0.100	4.00	100	90 - 110	X521212 - X5E0350-04	22-May-25	
EPA 300.0	Nitrite as N	mg/L	2.00	<0.050	2.00	100	90 - 110	X521212 - X5E0350-03	22-May-25	
EPA 300.0	Nitrite as N	mg/L	2.02	<0.050	2.00	101	90 - 110	X521212 - X5E0350-04	22-May-25	
EPA 300.0	Sulfate as SO4	mg/L	13.2	3.27	10.0	99.6	90 - 110	X521212 - X5E0350-03	22-May-25	
EPA 300.0	Sulfate as SO4	mg/L	16.1	6.09	10.0	100	90 - 110	X521212 - X5E0350-04	22-May-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: **X5E0361**
Reported: 06-Jun-25 12:36

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	465	415	20.0	11.0	20	0.30R>S	X522154 - X5E0312-01	D18,M4
EPA 200.7	Magnesium	mg/L	459	399	20.0	14.0	20	0.30R>S	X522154 - X5E0312-01	D18,M4
EPA 200.7	Potassium	mg/L	22.6	19.6	20.0	13.9	20	113	X522154 - X5E0312-01	D18
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1040	1010	1.00	2.8	20	0.30R>S	X522006 - X5E0312-01	M4
EPA 200.7	Barium	mg/L	0.980	1.01	1.00	2.8	20	97.1	X522006 - X5E0312-01	
EPA 200.7	Beryllium	mg/L	1.74	1.76	1.00	1.0	20	102	X522006 - X5E0312-01	
EPA 200.7	Boron	mg/L	1.07	1.10	1.00	2.4	20	104	X522006 - X5E0312-01	
EPA 200.7	Cadmium	mg/L	3.00	3.06	1.00	2.0	20	90.1	X522006 - X5E0312-01	
EPA 200.7	Calcium	mg/L	427	438	20.0	2.4	20	0.30R>S	X522006 - X5E0312-01	B7,M3
EPA 200.7	Chromium	mg/L	1.12	1.15	1.00	2.1	20	98.1	X522006 - X5E0312-01	
EPA 200.7	Cobalt	mg/L	2.78	2.84	1.00	1.9	20	91.5	X522006 - X5E0312-01	
EPA 200.7	Copper	mg/L	6.10	6.24	1.00	2.2	20	104	X522006 - X5E0312-01	
EPA 200.7	Iron	mg/L	59.6	61.2	10.0	2.6	20	79.8	X522006 - X5E0312-01	
EPA 200.7	Lead	mg/L	0.991	0.975	1.00	1.6	20	99.1	X522006 - X5E0312-01	D18
EPA 200.7	Lithium	mg/L	1.81	1.85	1.00	2.2	20	130	X522006 - X5E0312-01	
EPA 200.7	Magnesium	mg/L	404	395	20.0	2.4	20	0.30R>S	X522006 - X5E0312-01	D18,M4
EPA 200.7	Manganese	mg/L	293	293	1.00	0.1	20	0.30R>S	X522006 - X5E0312-01	M4
EPA 200.7	Molybdenum	mg/L	0.980	1.00	1.00	2.4	20	98.0	X522006 - X5E0312-01	
EPA 200.7	Nickel	mg/L	4.05	4.13	1.00	1.9	20	90.1	X522006 - X5E0312-01	
EPA 200.7	Potassium	mg/L	22.6	23.0	20.0	1.7	20	108	X522006 - X5E0312-01	
EPA 200.7	Silver	mg/L	0.0362	0.0362	0.0500	0.2	20	72.5	X522006 - X5E0312-01	D18
EPA 200.7	Sodium	mg/L	52.8	52.0	19.0	1.5	20	95.3	X522006 - X5E0312-01	D18
EPA 200.7	Vanadium	mg/L	1.04	1.06	1.00	2.0	20	104	X522006 - X5E0312-01	
EPA 200.7	Zinc	mg/L	82.5	81.0	1.00	1.9	20	0.30R>S	X522006 - X5E0312-01	D18,M4
EPA 200.8	Antimony	mg/L	0.0265	0.0253	0.0250	4.9	20	106	X521236 - X5E0284-01	
EPA 200.8	Arsenic	mg/L	0.0527	0.0513	0.0250	2.7	20	110	X521236 - X5E0284-01	
EPA 200.8	Selenium	mg/L	0.0268	0.0263	0.0250	1.9	20	99.8	X521236 - X5E0284-01	
EPA 200.8	Thallium	mg/L	0.0267	0.0263	0.0250	1.5	20	106	X521236 - X5E0284-01	
EPA 200.8	Uranium	mg/L	0.489	0.463	0.0250	5.5	20	0.30R>S	X521236 - X5E0284-01	M3
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00203	0.00200	0.00200	1.7	20	102	X521263 - X5E0348-01	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.130	0.122	0.100	5.9	11	130	X522049 - X5E0350-01	M1
EPA 335.4	Cyanide (total)	mg/L	0.109	0.0743	0.100	37.8	20	109	X522003 - X5E0287-02	R2B
EPA 350.1	Ammonia as N	mg/L	1.06	1.05	1.00	1.1	20	92.8	X522052 - X5E0396-02	
OIA 1677	Cyanide (WAD)	mg/L	0.104	0.102	0.100	2.2	11	104	X522098 - X5E0414-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.55	4.55	3.00	0.1	20	97.9	X521212 - X5E0350-03	
EPA 300.0	Fluoride	mg/L	2.09	2.06	2.00	1.4	20	100	X521212 - X5E0350-03	
EPA 300.0	Nitrate as N	mg/L	2.10	2.08	2.00	0.6	20	99.5	X521212 - X5E0350-03	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.02	4.09	4.00	1.6	20	97.8	X521212 - X5E0350-03	
EPA 300.0	Nitrite as N	mg/L	1.92	2.00	2.00	4.0	20	96.2	X521212 - X5E0350-03	
EPA 300.0	Sulfate as SO4	mg/L	13.4	13.2	10.0	1.5	20	102	X521212 - X5E0350-03	

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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: **X5E0361**
Cripple Creek, CO 80813	Reported: 06-Jun-25 12:36

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.
D17	Due to an internal standard failure at a lower dilution, a sample dilution was performed.
D18	Due to a published chemical interference, a sample dilution was performed.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
Q5	Sample was received with inadequate preservation, but preserved by the laboratory.
R2B	RPD exceeded the laboratory acceptance limit.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Cripple Creek & Victor Gold Mining Company	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Ironclad Security 1632 County Rd 82	Work Order: **X5E0477**
Cripple Creek, CO 80813	Reported: 20-Jun-25 14:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
OSABH-16	X5E0477-01	Ground Water	29-May-25 10:06	TR	30-May-2025	Q5
GVMW-35A	X5E0477-02	Ground Water	29-May-25 11:22	TR	30-May-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.

Case Narrative: X5E0477

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: **X5E0477**
Reported: 20-Jun-25 14:48

Client Sample ID: **OSABH-16**
SVL Sample ID: **X5E0477-01 (Ground Water)**

Sampled: 29-May-25 10:06
Received: 30-May-25
Sampled By: TR

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**	420	mg/L	0.100	0.069		X524024	MAC	06/11/25 16:33	
EPA 200.7	**Magnesium**	233	mg/L	0.500	0.090		X524024	MAC	06/11/25 16:33	
EPA 200.7	**Potassium**	3.94	mg/L	0.50	0.18		X524024	MAC	06/11/25 16:33	
SM 2340 B	**Hardness (as CaCO3)**	2010	mg/L	2.31	0.543		N/A		06/09/25 07:37	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	409	mg/L	0.080	0.054		X523105	MAC	06/06/25 14:24	M3
EPA 200.7	**Barium**	0.0095	mg/L	0.0020	0.0019		X523105	MAC	06/06/25 14:24	
EPA 200.7	**Beryllium**	0.327	mg/L	0.00200	0.00080		X523105	MAC	06/06/25 14:24	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X523105	MAC	06/09/25 09:22	
EPA 200.7	**Cadmium**	2.03	mg/L	0.0020	0.0016		X523105	MAC	06/06/25 14:24	
EPA 200.7	**Calcium**	403	mg/L	0.100	0.069		X523105	MAC	06/06/25 14:24	
EPA 200.7	**Chromium**	0.0080	mg/L	0.0060	0.0020		X523105	MAC	06/06/25 14:24	
EPA 200.7	**Cobalt**	1.40	mg/L	0.0060	0.0046		X523105	MAC	06/06/25 14:24	
EPA 200.7	**Copper**	2.15	mg/L	0.0100	0.0027		X523105	MAC	06/06/25 14:24	
EPA 200.7	**Iron**	7.15	mg/L	0.100	0.056		X523105	MAC	06/06/25 14:24	
EPA 200.7	**Lead**	0.0075	mg/L	0.0075	0.0049		X523105	MAC	06/06/25 14:24	
EPA 200.7	**Lithium**	0.499	mg/L	0.040	0.025		X523105	MAC	06/06/25 14:24	
EPA 200.7	**Magnesium**	256	mg/L	0.500	0.090		X523105	JRR	06/09/25 07:37	
EPA 200.7	**Manganese**	375	mg/L	0.0800	0.0340	10	X523105	MAC	06/06/25 14:46	M4
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X523105	MAC	06/06/25 14:24	
EPA 200.7	**Nickel**	1.35	mg/L	0.0100	0.0048		X523105	MAC	06/06/25 14:24	
EPA 200.7	**Potassium**	3.26	mg/L	0.50	0.18		X523105	MAC	06/06/25 14:24	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X523105	JRR	06/09/25 07:37	M2
EPA 200.7	**Sodium**	21.4	mg/L	0.50	0.12		X523105	MAC	06/06/25 14:24	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X523105	MAC	06/06/25 14:24	
EPA 200.7	**Zinc**	71.5	mg/L	0.100	0.0540	10	X523105	MAC	06/06/25 14:46	M4
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X524058	SMU	06/11/25 21:53	
EPA 200.8	**Arsenic**	0.0734	mg/L	0.00100	0.00021		X524058	SMU	06/11/25 21:53	
EPA 200.8	**Selenium**	0.00999	mg/L	0.00100	0.00024		X524058	SMU	06/11/25 21:53	
EPA 200.8	Thallium	< 0.00200	mg/L	0.00200	0.000800	10	X524058	SMU	06/11/25 22:13	D17
EPA 200.8	**Uranium**	3.19	mg/L	0.00100	0.000520	10	X524058	NMS	06/12/25 07:50	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X523069	SJN	06/04/25 15:52	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X523058	JPM	06/04/25 19:22	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X523057	ORW	06/04/25 09:31	
EPA 350.1	**Ammonia as N**	0.031	mg/L	0.030	0.013		X523007	ORW	06/06/25 14:05	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X522098	JPM	06/02/25 13:53	
SM 2310 B	**Acidity to pH 8.3**	2810	mg/L as CaCO3	10.0			X523171	MWD	06/05/25 10:43	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X523142	MWD	06/04/25 20:24	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X523142	MWD	06/04/25 20:24	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X523142	MWD	06/04/25 20:24	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X523142	MWD	06/04/25 20:24	
SM 2540 C	**Total Diss. Solids**	7190	mg/L	40			X523015	TJL	06/03/25 13:00	
SM 2540 D	**Total Susp. Solids**	23.0	mg/L	5.0			X523016	TJL	06/03/25 12:30	
SM 4500 H B	**pH @20.1°C**	3.4	pH Units				X523142	MWD	06/04/25 20:24	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT(TNI)**:ID000192015-1, **WA**:C573

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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: **X5E0477**
Reported: 20-Jun-25 14:48

Client Sample ID: **OSABH-16**
SVL Sample ID: **X5E0477-01 (Ground Water)**

Sampled: 29-May-25 10:06
Received: 30-May-25
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	2.97	mg/L	1.00	0.11	5	X522139	RS	05/30/25 12:42	D18
EPA 300.0	**Fluoride**	86.8	mg/L	10.0	1.70	100	X522139	RS	05/30/25 12:57	
EPA 300.0	**Nitrate as N**	3.34	mg/L	0.250	0.065	5	X522139	RS	05/30/25 12:42	D18
EPA 300.0	**Nitrate+Nitrite as N**	3.34	mg/L	0.500	0.220	5	X522139	RS	05/30/25 12:42	D18
EPA 300.0	Nitrite as N	< 0.250	mg/L	0.250	0.155	5	X522139	RS	05/30/25 12:42	D18
EPA 300.0	**Sulfate as SO4**	4790	mg/L	30.0	18.0	100	X522139	RS	05/30/25 12:57	

Cation/Anion Balance and TDS Ratios

Cation Sum: 102 meq/L Anion Sum: 105 meq/L C/A Balance: -1.27 % Calculated TDS: 5576 TDS/cTDS: 1.29

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

Kristi A. Groth

Kristi A. Groth
Project Manager

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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: **X5E0477**
Reported: 20-Jun-25 14:48

Client Sample ID: **GVMW-35A**
SVL Sample ID: **X5E0477-02 (Ground Water)**

Sampled: 29-May-25 11:22
Received: 30-May-25
Sampled By: TR

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**	229	mg/L	0.100	0.069		X524024	MAC	06/11/25 16:38	
EPA 200.7	**Magnesium**	1.36	mg/L	0.500	0.090		X524024	MAC	06/11/25 16:38	
EPA 200.7	**Potassium**	41.8	mg/L	0.50	0.18		X524024	MAC	06/11/25 16:38	
SM 2340 B	**Hardness (as CaCO3)**	577	mg/L	2.31	0.543		N/A		06/09/25 07:45	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X523105	MAC	06/06/25 14:39	
EPA 200.7	**Barium**	0.0561	mg/L	0.0020	0.0019		X523105	MAC	06/06/25 14:39	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X523105	MAC	06/06/25 14:39	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X523105	MAC	06/09/25 09:31	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X523105	MAC	06/06/25 14:39	
EPA 200.7	**Calcium**	215	mg/L	0.100	0.069		X523105	MAC	06/06/25 14:39	
EPA 200.7	**Chromium**	0.0084	mg/L	0.0060	0.0020		X523105	MAC	06/06/25 14:39	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X523105	MAC	06/06/25 14:39	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X523105	MAC	06/06/25 14:39	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X523105	MAC	06/06/25 14:39	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X523105	MAC	06/06/25 14:39	
EPA 200.7	**Lithium**	0.063	mg/L	0.040	0.025		X523105	MAC	06/06/25 14:39	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X523105	JRR	06/09/25 07:45	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X523105	MAC	06/06/25 14:39	
EPA 200.7	**Molybdenum**	0.0279	mg/L	0.0080	0.0034		X523105	MAC	06/06/25 14:39	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X523105	MAC	06/06/25 14:39	
EPA 200.7	**Potassium**	37.8	mg/L	0.50	0.18		X523105	MAC	06/06/25 14:39	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X523105	JRR	06/09/25 07:45	
EPA 200.7	**Sodium**	41.6	mg/L	0.50	0.12		X523105	MAC	06/06/25 14:39	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X523105	MAC	06/06/25 14:39	
EPA 200.7	**Zinc**	0.0118	mg/L	0.0100	0.0054		X523105	MAC	06/06/25 14:39	
EPA 200.8	**Antimony**	0.00432	mg/L	0.00100	0.00072		X524058	SMU	06/11/25 22:10	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X524058	SMU	06/11/25 22:10	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X524058	SMU	06/11/25 22:10	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X524058	SMU	06/11/25 22:10	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X524058	NMS	06/12/25 08:18	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X523069	SJN	06/04/25 15:56	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X523058	JPM	06/04/25 19:26	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X523057	ORW	06/04/25 09:33	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X523007	ORW	06/06/25 14:08	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X525126	ORW	06/18/25 12:43	H1
SM 2310 B	**Acidity to pH 8.3**	-573	mg/L as CaCO3	10.0			X523171	MWD	06/05/25 10:43	
SM 2320 B	**Total Alkalinity**	571	mg/L as CaCO3	1.0			X523142	MWD	06/05/25 08:28	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X523142	MWD	06/05/25 08:28	
SM 2320 B	**Carbonate**	339	mg/L as CaCO3	1.0			X523142	MWD	06/05/25 08:28	
SM 2320 B	**Hydroxide**	232	mg/L as CaCO3	1.0			X523142	MWD	06/05/25 08:28	
SM 2540 C	**Total Diss. Solids**	976	mg/L	40			X523015	TJL	06/03/25 13:00	
SM 2540 D	**Total Susp. Solids**	196	mg/L	5.0			X523016	TJL	06/03/25 12:30	
SM 4500 H B	**pH @16.5°C**	12.1	pH Units				X523142	MWD	06/05/25 08:28	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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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: **X5E0477**
Reported: 20-Jun-25 14:48

Client Sample ID: **GVMW-35A**
SVL Sample ID: **X5E0477-02 (Ground Water)**

Sampled: 29-May-25 11:22
Received: 30-May-25
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	19.1	mg/L	10.0	1.10	50	X522139	RS	05/30/25 13:27	
EPA 300.0	**Fluoride**	0.187	mg/L	0.100	0.017		X522139	RS	05/30/25 13:12	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X522139	RS	05/30/25 13:12	
EPA 300.0	**Nitrate+Nitrite as N**	0.113	mg/L	0.100	0.044		X522139	RS	05/30/25 13:12	
EPA 300.0	**Nitrite as N**	0.080	mg/L	0.050	0.031		X522139	RS	05/30/25 13:12	
EPA 300.0	**Sulfate as SO4**	426	mg/L	15.0	9.00	50	X522139	RS	05/30/25 13:27	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 13.5 meq/L Anion Sum: 20.8 meq/L C/A Balance: -21.25 % Calculated TDS: 1092 TDS/cTDS: 0.89

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: **X5E0477**
Reported: 20-Jun-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	X524024	11-Jun-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X524024	11-Jun-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X524024	11-Jun-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X523105	06-Jun-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X523105	06-Jun-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X523105	06-Jun-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X523105	09-Jun-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X523105	06-Jun-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X523105	06-Jun-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X523105	06-Jun-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X523105	06-Jun-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X523105	06-Jun-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X523105	06-Jun-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X523105	06-Jun-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X523105	06-Jun-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X523105	09-Jun-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X523105	06-Jun-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X523105	06-Jun-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X523105	06-Jun-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X523105	06-Jun-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X523105	09-Jun-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X523105	06-Jun-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X523105	06-Jun-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X523105	06-Jun-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X524058	11-Jun-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X524058	11-Jun-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X524058	11-Jun-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X524058	11-Jun-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X524058	12-Jun-25	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X523069	04-Jun-25	
Classical Chemistry Parameters								
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X523058	04-Jun-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X523057	04-Jun-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X523007	06-Jun-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X522098	02-Jun-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X525126	18-Jun-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X523171	05-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X523142	04-Jun-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X523142	04-Jun-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X523142	04-Jun-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X523142	04-Jun-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X523015	03-Jun-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X523016	03-Jun-25	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X522139	30-May-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X522139	30-May-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X522139	30-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X522139	30-May-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X522139	30-May-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X522139	30-May-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: **X5E0477**
Reported: 20-Jun-25 14:48

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	18.7	20.0	94	85 - 115	X524024	11-Jun-25	
EPA 200.7	Magnesium	mg/L	18.6	20.0	93.1	85 - 115	X524024	11-Jun-25	
EPA 200.7	Potassium	mg/L	19.1	20.0	95.5	85 - 115	X524024	11-Jun-25	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.932	1.00	93.2	85 - 115	X523105	06-Jun-25	
EPA 200.7	Barium	mg/L	0.961	1.00	96.1	85 - 115	X523105	06-Jun-25	
EPA 200.7	Beryllium	mg/L	0.924	1.00	92.4	85 - 115	X523105	06-Jun-25	
EPA 200.7	Boron	mg/L	0.959	1.00	95.9	85 - 115	X523105	09-Jun-25	
EPA 200.7	Cadmium	mg/L	0.939	1.00	93.9	85 - 115	X523105	06-Jun-25	
EPA 200.7	Calcium	mg/L	18.8	20.0	93.8	85 - 115	X523105	06-Jun-25	
EPA 200.7	Chromium	mg/L	0.932	1.00	93.2	85 - 115	X523105	06-Jun-25	
EPA 200.7	Cobalt	mg/L	0.926	1.00	92.6	85 - 115	X523105	06-Jun-25	
EPA 200.7	Copper	mg/L	0.921	1.00	92.1	85 - 115	X523105	06-Jun-25	
EPA 200.7	Iron	mg/L	9.30	10.0	93.0	85 - 115	X523105	06-Jun-25	
EPA 200.7	Lead	mg/L	0.942	1.00	94.2	85 - 115	X523105	06-Jun-25	
EPA 200.7	Lithium	mg/L	0.932	1.00	93.2	85 - 115	X523105	06-Jun-25	
EPA 200.7	Magnesium	mg/L	19.7	20.0	98.5	85 - 115	X523105	09-Jun-25	
EPA 200.7	Manganese	mg/L	0.931	1.00	93.1	85 - 115	X523105	06-Jun-25	
EPA 200.7	Molybdenum	mg/L	0.938	1.00	93.8	85 - 115	X523105	06-Jun-25	
EPA 200.7	Nickel	mg/L	0.928	1.00	92.8	85 - 115	X523105	06-Jun-25	
EPA 200.7	Potassium	mg/L	19.0	20.0	94.9	85 - 115	X523105	06-Jun-25	
EPA 200.7	Silver	mg/L	0.0495	0.0500	99.0	85 - 115	X523105	09-Jun-25	
EPA 200.7	Sodium	mg/L	18.3	19.0	96.3	85 - 115	X523105	06-Jun-25	
EPA 200.7	Vanadium	mg/L	0.940	1.00	94.0	85 - 115	X523105	06-Jun-25	
EPA 200.7	Zinc	mg/L	0.937	1.00	93.7	85 - 115	X523105	06-Jun-25	
EPA 200.8	Antimony	mg/L	0.0251	0.0250	100	85 - 115	X524058	11-Jun-25	
EPA 200.8	Arsenic	mg/L	0.0239	0.0250	95.4	85 - 115	X524058	11-Jun-25	
EPA 200.8	Selenium	mg/L	0.0237	0.0250	94.7	85 - 115	X524058	11-Jun-25	
EPA 200.8	Thallium	mg/L	0.0258	0.0250	103	85 - 115	X524058	11-Jun-25	
EPA 200.8	Uranium	mg/L	0.0257	0.0250	103	85 - 115	X524058	12-Jun-25	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00217	0.00200	108	85 - 115	X523069	04-Jun-25	
Classical Chemistry Parameters									
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.100	0.100	100	90 - 110	X523058	04-Jun-25	
EPA 335.4	Cyanide (total)	mg/L	0.0962	0.100	96.2	90 - 110	X523057	04-Jun-25	
EPA 350.1	Ammonia as N	mg/L	1.01	1.00	101	90 - 110	X523007	06-Jun-25	
OIA 1677	Cyanide (WAD)	mg/L	0.100	0.100	100	90 - 110	X522098	02-Jun-25	
OIA 1677	Cyanide (WAD)	mg/L	0.103	0.100	103	90 - 110	X525126	18-Jun-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1210	1180	103	95.4 - 104	X523171	05-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.3	9.93	104	94 - 106	X523142	04-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	102	94 - 106	X523142	04-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	385	397	97.1	94 - 106	X523142	04-Jun-25	
SM 2540 C	Total Diss. Solids	mg/L	249	250	99.6	85 - 115	X523015	03-Jun-25	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X523016	03-Jun-25	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.93	3.00	97.6	90 - 110	X522139	30-May-25	
EPA 300.0	Fluoride	mg/L	1.99	2.00	99.3	90 - 110	X522139	30-May-25	
EPA 300.0	Nitrate as N	mg/L	1.94	2.00	97.1	90 - 110	X522139	30-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.49	4.50	99.7	90 - 110	X522139	30-May-25	
EPA 300.0	Nitrite as N	mg/L	2.55	2.50	102	90 - 110	X522139	30-May-25	
EPA 300.0	Sulfate as SO4	mg/L	10.1	10.0	101	90 - 110	X522139	30-May-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: **X5E0477**
Reported: 20-Jun-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 CaCO3	<10.0	<10.0	UDL	20	X523171 - X5E0414-01	05-Jun-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	117	115	1.1	20	X523142 - X5E0414-02	04-Jun-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	117	115	1.1	20	X523142 - X5E0414-02	04-Jun-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X523142 - X5E0414-02	04-Jun-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X523142 - X5E0414-02	04-Jun-25	
SM 2540 C	Total Diss. Solids	mg/L	159	155	2.6	10	X523015 - X5E0471-01	03-Jun-25	
SM 2540 C	Total Diss. Solids	mg/L	272	277	1.8	10	X523015 - X5E0474-04	03-Jun-25	
SM 2540 D	Total Susp. Solids	mg/L	7.0	7.0	0.0	10	X523016 - X5E0471-01	03-Jun-25	
SM 4500 H B	pH @20.0°C	pH Units	8.0	8.0	0.0	20	X523142 - X5E0414-02	04-Jun-25	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	175	165	20.0	0.30R>S	70 - 130	X524024 - X5E0456-01	11-Jun-25	M3
EPA 200.7	Calcium	mg/L	47.6	30.4	20.0	86	70 - 130	X524024 - X5E0471-01	11-Jun-25	
EPA 200.7	Magnesium	mg/L	35.5	18.6	20.0	84.1	70 - 130	X524024 - X5E0456-01	11-Jun-25	
EPA 200.7	Magnesium	mg/L	29.8	12.2	20.0	87.9	70 - 130	X524024 - X5E0471-01	11-Jun-25	
EPA 200.7	Potassium	mg/L	25.5	6.64	20.0	94.4	70 - 130	X524024 - X5E0456-01	11-Jun-25	
EPA 200.7	Potassium	mg/L	19.6	0.88	20.0	93.4	70 - 130	X524024 - X5E0471-01	11-Jun-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	3.78	2.76	1.00	102	70 - 130	X523105 - X5E0379-01	06-Jun-25	
EPA 200.7	Aluminum	mg/L	408	409	1.00	0.30R>S	70 - 130	X523105 - X5E0477-01	06-Jun-25	M3
EPA 200.7	Barium	mg/L	0.951	0.0263	1.00	92.4	70 - 130	X523105 - X5E0379-01	06-Jun-25	
EPA 200.7	Barium	mg/L	0.924	0.0095	1.00	91.4	70 - 130	X523105 - X5E0477-01	06-Jun-25	
EPA 200.7	Beryllium	mg/L	0.993	0.00484	1.00	98.8	70 - 130	X523105 - X5E0379-01	06-Jun-25	
EPA 200.7	Beryllium	mg/L	1.31	0.327	1.00	98.5	70 - 130	X523105 - X5E0477-01	06-Jun-25	
EPA 200.7	Boron	mg/L	1.08	0.130	1.00	94.7	70 - 130	X523105 - X5E0379-01	09-Jun-25	
EPA 200.7	Boron	mg/L	0.911	<0.0400	1.00	90.0	70 - 130	X523105 - X5E0477-01	09-Jun-25	
EPA 200.7	Cadmium	mg/L	1.21	0.277	1.00	93.2	70 - 130	X523105 - X5E0379-01	06-Jun-25	
EPA 200.7	Cadmium	mg/L	2.93	2.03	1.00	90.2	70 - 130	X523105 - X5E0477-01	06-Jun-25	
EPA 200.7	Calcium	mg/L	509	486	20.0	110	70 - 130	X523105 - X5E0379-01	06-Jun-25	
EPA 200.7	Calcium	mg/L	421	403	20.0	90.1	70 - 130	X523105 - X5E0477-01	06-Jun-25	
EPA 200.7	Chromium	mg/L	0.936	<0.0060	1.00	93.6	70 - 130	X523105 - X5E0379-01	06-Jun-25	
EPA 200.7	Chromium	mg/L	0.933	0.0080	1.00	92.5	70 - 130	X523105 - X5E0477-01	06-Jun-25	
EPA 200.7	Cobalt	mg/L	2.70	1.74	1.00	96.1	70 - 130	X523105 - X5E0379-01	06-Jun-25	
EPA 200.7	Cobalt	mg/L	2.29	1.40	1.00	89.3	70 - 130	X523105 - X5E0477-01	06-Jun-25	
EPA 200.7	Copper	mg/L	3.19	2.15	1.00	105	70 - 130	X523105 - X5E0477-01	06-Jun-25	
EPA 200.7	Copper	mg/L	76.1	76.4	1.00	0.30R>S	70 - 130	X523105 - X5E0379-01	09-Jun-25	M3
EPA 200.7	Iron	mg/L	14.4	5.28	10.0	91.0	70 - 130	X523105 - X5E0379-01	06-Jun-25	
EPA 200.7	Iron	mg/L	16.4	7.15	10.0	92.4	70 - 130	X523105 - X5E0477-01	06-Jun-25	
EPA 200.7	Lead	mg/L	0.955	<0.0075	1.00	95.5	70 - 130	X523105 - X5E0379-01	06-Jun-25	
EPA 200.7	Lead	mg/L	0.956	0.0075	1.00	94.9	70 - 130	X523105 - X5E0477-01	06-Jun-25	
EPA 200.7	Lithium	mg/L	1.40	0.221	1.00	118	70 - 130	X523105 - X5E0379-01	06-Jun-25	
EPA 200.7	Lithium	mg/L	1.68	0.499	1.00	118	70 - 130	X523105 - X5E0477-01	06-Jun-25	
EPA 200.7	Magnesium	mg/L	310	298	20.0	0.30R>S	70 - 130	X523105 - X5E0379-01	09-Jun-25	M3
EPA 200.7	Magnesium	mg/L	273	256	20.0	82.5	70 - 130	X523105 - X5E0477-01	09-Jun-25	
EPA 200.7	Manganese	mg/L	14.6	13.5	1.00	103	70 - 130	X523105 - X5E0379-01	06-Jun-25	

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

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X5E0477**
Reported: 20-Jun-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	386	375	1.00	0.30R>S	70 - 130	X523105 - X5E0477-01	06-Jun-25	M4
EPA 200.7	Molybdenum	mg/L	0.974	<0.0080	1.00	97.4	70 - 130	X523105 - X5E0379-01	06-Jun-25	
EPA 200.7	Molybdenum	mg/L	0.936	<0.0080	1.00	93.6	70 - 130	X523105 - X5E0477-01	06-Jun-25	
EPA 200.7	Nickel	mg/L	1.61	0.654	1.00	95.5	70 - 130	X523105 - X5E0379-01	06-Jun-25	
EPA 200.7	Nickel	mg/L	2.26	1.35	1.00	91.5	70 - 130	X523105 - X5E0477-01	06-Jun-25	
EPA 200.7	Potassium	mg/L	34.1	14.6	20.0	97.6	70 - 130	X523105 - X5E0379-01	06-Jun-25	
EPA 200.7	Potassium	mg/L	23.3	3.26	20.0	100	70 - 130	X523105 - X5E0477-01	06-Jun-25	
EPA 200.7	Silver	mg/L	0.0408	<0.0050	0.0500	81.7	70 - 130	X523105 - X5E0379-01	09-Jun-25	
EPA 200.7	Silver	mg/L	0.0288	<0.0050	0.0500	57.7	70 - 130	X523105 - X5E0477-01	09-Jun-25	M2
EPA 200.7	Sodium	mg/L	139	120	19.0	100	70 - 130	X523105 - X5E0379-01	06-Jun-25	
EPA 200.7	Sodium	mg/L	40.5	21.4	19.0	100	70 - 130	X523105 - X5E0477-01	06-Jun-25	
EPA 200.7	Vanadium	mg/L	0.994	<0.0050	1.00	99.4	70 - 130	X523105 - X5E0379-01	06-Jun-25	
EPA 200.7	Vanadium	mg/L	0.986	<0.0050	1.00	98.2	70 - 130	X523105 - X5E0477-01	06-Jun-25	
EPA 200.7	Zinc	mg/L	9.95	9.01	1.00	93.5	70 - 130	X523105 - X5E0379-01	06-Jun-25	
EPA 200.7	Zinc	mg/L	75.0	71.5	1.00	0.30R>S	70 - 130	X523105 - X5E0477-01	06-Jun-25	M4
EPA 200.8	Antimony	mg/L	0.0268	<0.00100	0.0250	107	70 - 130	X524058 - X5E0455-01	11-Jun-25	
EPA 200.8	Antimony	mg/L	0.0268	<0.00100	0.0250	107	70 - 130	X524058 - X5E0476-01	11-Jun-25	
EPA 200.8	Arsenic	mg/L	0.0278	<0.00100	0.0250	107	70 - 130	X524058 - X5E0455-01	11-Jun-25	
EPA 200.8	Arsenic	mg/L	0.0294	0.00221	0.0250	109	70 - 130	X524058 - X5E0476-01	11-Jun-25	
EPA 200.8	Selenium	mg/L	0.0324	0.00302	0.0250	118	70 - 130	X524058 - X5E0455-01	11-Jun-25	
EPA 200.8	Selenium	mg/L	0.0294	0.00102	0.0250	114	70 - 130	X524058 - X5E0476-01	11-Jun-25	
EPA 200.8	Thallium	mg/L	0.0270	<0.000200	0.0250	108	70 - 130	X524058 - X5E0455-01	11-Jun-25	
EPA 200.8	Thallium	mg/L	0.0288	<0.000200	0.0250	115	70 - 130	X524058 - X5E0476-01	11-Jun-25	
EPA 200.8	Uranium	mg/L	0.0330	0.00678	0.0250	105	70 - 130	X524058 - X5E0455-01	12-Jun-25	
EPA 200.8	Uranium	mg/L	0.0315	0.00339	0.0250	112	70 - 130	X524058 - X5E0476-01	12-Jun-25	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00202	<0.000200	0.00200	101	70 - 130	X523069 - X5E0365-02	04-Jun-25	
EPA 245.1	Mercury	mg/L	0.00209	<0.000200	0.00200	105	70 - 130	X523069 - X5E0477-01	04-Jun-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.144	<0.0050	0.100	144	79 - 121	X523058 - X5E0471-01	04-Jun-25	M1
EPA 335.4	Cyanide (total)	mg/L	0.0967	<0.0050	0.100	96.7	90 - 110	X523057 - X5E0476-01	04-Jun-25	
EPA 350.1	Ammonia as N	mg/L	0.992	<0.030	1.00	99.2	90 - 110	X523007 - X5E0409-02	06-Jun-25	
EPA 350.1	Ammonia as N	mg/L	0.901	<0.030	1.00	90.1	90 - 110	X523007 - X5E0409-01	06-Jun-25	
OIA 1677	Cyanide (WAD)	mg/L	0.102	<0.0050	0.100	102	82 - 118	X522098 - X5E0414-01	02-Jun-25	
OIA 1677	Cyanide (WAD)	mg/L	0.0121	<0.0050	0.100	12.1	82 - 118	X525126 - X5F0170-02	18-Jun-25	M2
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.78	1.84	3.00	97.8	90 - 110	X522139 - X5E0471-01	30-May-25	
EPA 300.0	Chloride	mg/L	11.9	8.89	3.00	101	90 - 110	X522139 - X5E0461-03	30-May-25	
EPA 300.0	Fluoride	mg/L	2.02	0.102	2.00	96.1	90 - 110	X522139 - X5E0471-01	30-May-25	
EPA 300.0	Fluoride	mg/L	2.16	0.311	2.00	92.5	90 - 110	X522139 - X5E0461-03	30-May-25	
EPA 300.0	Nitrate as N	mg/L	2.00	<0.050	2.00	98.1	90 - 110	X522139 - X5E0471-01	30-May-25	
EPA 300.0	Nitrate as N	mg/L	2.42	0.433	2.00	99.4	90 - 110	X522139 - X5E0461-03	30-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.99	<0.100	4.00	99.7	90 - 110	X522139 - X5E0471-01	30-May-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.43	0.435	4.00	99.8	90 - 110	X522139 - X5E0461-03	30-May-25	
EPA 300.0	Nitrite as N	mg/L	1.99	<0.050	2.00	99.4	90 - 110	X522139 - X5E0471-01	30-May-25	
EPA 300.0	Nitrite as N	mg/L	2.01	<0.050	2.00	100	90 - 110	X522139 - X5E0461-03	30-May-25	
EPA 300.0	Sulfate as SO4	mg/L	21.0	11.1	10.0	99.0	90 - 110	X522139 - X5E0471-01	30-May-25	
EPA 300.0	Sulfate as SO4	mg/L	28.6	18.4	10.0	103	90 - 110	X522139 - X5E0461-03	30-May-25	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X5E0477**
Reported: 20-Jun-25 14:48

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	176	175	20.0	0.7	20	0.30R>S	X524024 - X5E0456-01	M3
EPA 200.7	Magnesium	mg/L	35.8	35.5	20.0	0.8	20	85.6	X524024 - X5E0456-01	
EPA 200.7	Potassium	mg/L	25.8	25.5	20.0	1.2	20	96.0	X524024 - X5E0456-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	3.73	3.78	1.00	1.3	20	96.9	X523105 - X5E0379-01	
EPA 200.7	Barium	mg/L	0.952	0.951	1.00	0.1	20	92.6	X523105 - X5E0379-01	
EPA 200.7	Beryllium	mg/L	0.984	0.993	1.00	0.9	20	97.9	X523105 - X5E0379-01	
EPA 200.7	Boron	mg/L	1.07	1.08	1.00	0.9	20	93.8	X523105 - X5E0379-01	
EPA 200.7	Cadmium	mg/L	1.20	1.21	1.00	0.8	20	92.2	X523105 - X5E0379-01	
EPA 200.7	Calcium	mg/L	509	509	20.0	0.0	20	111	X523105 - X5E0379-01	
EPA 200.7	Chromium	mg/L	0.932	0.936	1.00	0.4	20	93.2	X523105 - X5E0379-01	
EPA 200.7	Cobalt	mg/L	2.67	2.70	1.00	1.2	20	93.0	X523105 - X5E0379-01	
EPA 200.7	Copper	mg/L	77.0	76.1	1.00	1.2	20	0.30R>S	X523105 - X5E0379-01	M3
EPA 200.7	Iron	mg/L	14.4	14.4	10.0	0.2	20	90.8	X523105 - X5E0379-01	
EPA 200.7	Lead	mg/L	0.942	0.955	1.00	1.4	20	94.2	X523105 - X5E0379-01	
EPA 200.7	Lithium	mg/L	1.38	1.40	1.00	1.3	20	116	X523105 - X5E0379-01	
EPA 200.7	Magnesium	mg/L	313	310	20.0	0.9	20	72.4	X523105 - X5E0379-01	
EPA 200.7	Manganese	mg/L	14.4	14.6	1.00	1.2	20	85.9	X523105 - X5E0379-01	
EPA 200.7	Molybdenum	mg/L	0.969	0.974	1.00	0.5	20	96.9	X523105 - X5E0379-01	
EPA 200.7	Nickel	mg/L	1.59	1.61	1.00	1.1	20	93.7	X523105 - X5E0379-01	
EPA 200.7	Potassium	mg/L	34.0	34.1	20.0	0.2	20	97.3	X523105 - X5E0379-01	
EPA 200.7	Silver	mg/L	0.0429	0.0408	0.0500	5.0	20	85.8	X523105 - X5E0379-01	
EPA 200.7	Sodium	mg/L	139	139	19.0	0.0	20	99.8	X523105 - X5E0379-01	
EPA 200.7	Vanadium	mg/L	0.984	0.994	1.00	1.0	20	98.4	X523105 - X5E0379-01	
EPA 200.7	Zinc	mg/L	9.86	9.95	1.00	0.9	20	85.0	X523105 - X5E0379-01	
EPA 200.8	Antimony	mg/L	0.0264	0.0268	0.0250	1.5	20	106	X524058 - X5E0455-01	
EPA 200.8	Arsenic	mg/L	0.0273	0.0278	0.0250	1.8	20	105	X524058 - X5E0455-01	
EPA 200.8	Selenium	mg/L	0.0313	0.0324	0.0250	3.6	20	113	X524058 - X5E0455-01	
EPA 200.8	Thallium	mg/L	0.0261	0.0270	0.0250	3.4	20	104	X524058 - X5E0455-01	
EPA 200.8	Uranium	mg/L	0.0361	0.0330	0.0250	9.0	20	117	X524058 - X5E0455-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00203	0.00202	0.00200	0.5	20	101	X523069 - X5E0365-02	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.142	0.144	0.100	2.0	11	142	X523058 - X5E0471-01	M1
EPA 335.4	Cyanide (total)	mg/L	0.0972	0.0967	0.100	0.5	20	97.2	X523057 - X5E0476-01	
EPA 350.1	Ammonia as N	mg/L	0.995	0.992	1.00	0.4	20	99.5	X523007 - X5E0409-02	
OIA 1677	Cyanide (WAD)	mg/L	0.104	0.102	0.100	2.2	11	104	X522098 - X5E0414-01	
OIA 1677	Cyanide (WAD)	mg/L	0.0127	0.0121	0.100	4.8	11	12.7	X525126 - X5F0170-02	M2
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.80	4.78	3.00	0.5	20	98.7	X522139 - X5E0471-01	
EPA 300.0	Fluoride	mg/L	2.06	2.02	2.00	1.5	20	97.7	X522139 - X5E0471-01	
EPA 300.0	Nitrate as N	mg/L	2.00	2.00	2.00	0.2	20	98.4	X522139 - X5E0471-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.00	3.99	4.00	0.5	20	100	X522139 - X5E0471-01	
EPA 300.0	Nitrite as N	mg/L	2.00	1.99	2.00	0.7	20	100	X522139 - X5E0471-01	
EPA 300.0	Sulfate as SO4	mg/L	21.2	21.0	10.0	0.8	20	101	X522139 - X5E0471-01	

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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: **X5E0477**
Cripple Creek, CO 80813	Reported: 20-Jun-25 14:48

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.
H1	Sample analysis performed past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
Q5	Sample was received with inadequate preservation, but preserved by the laboratory.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

Attachment 2
Surface Waer Calculations

GV-4.5

Sample Date: 5/19/2025

Data for Calculations:		
pH	6.79	std units
Hardness	149	mg/L
Temperature	5.8	Celsius

Regulation 32 (5 CCR 1002-32) COARUA24 Standards			GV-4.5 Results
Physical	**Acute**	**Chronic**	**Physical**
pH (std. units)	6.5 - 9.0	---	6.79
Temperature (^{o}C)	< 21.7	< 17	5.8
Inorganic	**Acute (mg/L)**	**Chronic (mg/L)**	**Inorganic**
Ammonia	6.311	28.226	<0.030
Boron	0.750	---	<0.0400
Chloride	250.000	---	27.5
Chlorine	0.011	0.019	--
Cyanide (Free)	---	0.005	<0.0050
Nitrate	---	10.000	0.372
Nitrite	0.050	---	<0.050
Sulfide	0.002	---	<0.050
Sulfate	250.000	---	61.7
Phosporus	0.110	---	**0.465**
Metals	**Acute (mg/L)**	**Chronic (mg/L)**	**Metals**
Arsenic	0.34000	---	<0.00100
Arsenic (T)	---	0.00300	0.00207
Cadmium	0.00260	0.00097	<0.000100
Cadmium (T)	0.00500	---	<0.000200
Chromium (III)	---	0.10274	<0.00600
Chromium (III) (T)	0.05000	---	<0.0110
Hexavalent Chromium	0.01600	0.01100	<0.0050
Copper	0.01957	0.01259	<0.00040
Iron	---	0.30000	**0.686**
Iron (T)	---	1.00000	**34.5**
Lead	0.09941	0.00387	<0.00020
Lead (T)	0.05000	---	0.00381
Manganese	3.40982	1.88393	0.329
Mercury (T)	---	0.00001	0.00000227
Molybdenum (T)	---	0.15000	<0.0080
Nickel	0.65612	0.07287	<0.0100
Nickel (T)	---	0.10000	<0.0100
Selenium	0.01840	0.00460	<0.00100
Silver	0.00403	0.00015	<0.00008
Uranium	0.01680	0.01680	0.000523
Zinc	0.22995	0.17416	0.0101

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: 5/19/2025

Data for Calculations:		
pH	7.53	std units
Hardness	135	mg/L
Temperature	6.4	Celsius

Regulation 32 (5 CCR 1002-32) COARUA24 Standards			GV-05 Results
Physical	**Acute**	**Chronic**	**Physical**
pH (std. units)	6.5 - 9.0	---	7.53
Temperature (^{o}C)	< 21.7	< 17	6.4
Inorganic	**Acute (mg/L)**	**Chronic (mg/L)**	**Inorganic**
Ammonia	4.249	12.693	<0.030
Boron	0.750	---	<0.0400
Chloride	250.000	---	10.4
Chlorine	0.011	0.019	--
Cyanide (Free)	---	0.005	<0.0050
Nitrate	---	10.000	<0.050
Nitrite	0.050	---	<0.050
Sulfide	0.002	---	<0.050
Sulfate	250.000	---	81.3
Phosporus	0.110	---	<0.050
Metals	**Acute (mg/L)**	**Chronic (mg/L)**	**Metals**
Arsenic	0.34000	---	<0.00100
Arsenic (T)	---	0.00300	<0.00100
Cadmium	0.00237	0.00090	<0.000100
Cadmium (T)	0.00500	---	<0.000100
Chromium (III)	---	0.09477	<0.00600
Chromium (III) (T)	0.05000	---	<0.0110
Hexavalent Chromium	0.01600	0.01100	<0.00500
Copper	0.01783	0.01157	<0.00040
Iron	---	0.30000	<0.100
Iron (T)	---	1.00000	0.691
Lead	0.08940	0.00348	<0.00020
Lead (T)	0.05000	---	<0.00020
Manganese	3.29957	1.82302	0.289
Mercury (T)	---	0.00001	0.00000158
Molybdenum (T)	---	0.15000	<0.0080
Nickel	0.60357	0.06704	<0.0100
Nickel (T)	---	0.10000	<0.0100
Selenium	0.01840	0.00460	<0.00100
Silver	0.00340	0.00013	<0.00008
Uranium	0.01680	0.01680	0.000508
Zinc	0.21021	0.15922	<0.0100

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: 5/19/2025

Data for Calculations:		
pH	7.19	std units
Hardness	133	mg/L
Temperature	7.8	Celsius

Regulation 32 (5 CCR 1002-32) COARUA24 Standards			GV-06 Results
Physical	**Acute**	**Chronic**	**Physical**
pH (std. units)	6.5 - 9.0	---	7.19
Temperature (^{o}C)	< 21.7	< 17	7.8
Inorganic	**Acute (mg/L)**	**Chronic (mg/L)**	**Inorganic**
Ammonia	5.418729865	19.9495596	<0.030
Boron	0.750	---	<0.0400
Chloride	250.000	---	9.89
Chlorine	0.011	0.019	--
Cyanide (Free)	---	0.005	<0.0050
Nitrate	---	10.000	0.434
Nitrite	0.050	---	<0.050
Sulfide	0.002	---	<0.050
Sulfate	250.000	---	89.4
Phosporus	0.110	---	<0.050
Metals	**Acute (mg/L)**	**Chronic (mg/L)**	**Metals**
Arsenic	0.34000	---	<0.00100
Arsenic (T)	---	0.00300	<0.00100
Cadmium	0.00234	0.00089	<0.000100
Cadmium (T)	0.00500	---	<0.000100
Chromium (III)	---	0.09362	<0.00600
Chromium (III) (T)	0.05000	---	<0.0110
Hexavalent Chromium	0.01600	0.01100	<0.0050
Copper	0.01758	0.01143	<0.00040
Iron	---	0.30000	0.142
Iron (T)	---	1.00000	0.82
Lead	0.08797	0.00343	<0.00020
Lead (T)	0.05000	---	0.0004
Manganese	3.28320	1.81397	0.566
Mercury (T)	---	0.00001	0.00000171
Molybdenum (T)	---	0.15000	<0.0080
Nickel	0.59600	0.06620	<0.0100
Nickel (T)	---	0.10000	<0.0100
Selenium	0.01840	0.00460	<0.00100
Silver	0.00331	0.00012	<0.00008
Uranium	0.01680	0.01680	0.000526
Zinc	0.20738	0.15707	0.0113

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

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

Location: EMP-16 **Date:** 5/19/25

Technician: Max Buffy **Quarter:** 2

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
12:06	3.33	2149	11.2	437

Sample Method: Grab

Oil/Gas visible [Y / (N)]

Turbid [Y / (N)]

Clear [(Y) / N]

Weather: 40°F partly cloudy

Signature: M. Buffy

Comments / Notes:

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

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

Location: Emp - 17 **Date:** 5/19/25

Technician: Max Buffy **Quarter:** 2

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
13:00	6.50	2235	10.4	275

Sample Method: Grab

Oil/Gas visible [Y / N]

Turbid [Y / N]

Clear [Y / N]

Weather: 40°F partly cloudy

Signature: M. Buff

Comments / Notes:

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

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

Location: Emp - 17A **Date:** 5/19/25

Technician: Max Buttry **Quarter:** 2

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
1225	4.49	533.2	10.9	347

Sample Method: Grab

Oil/Gas visible [Y / (N)]

Turbid [Y / (N)]

Clear [(Y) / N]

Weather: 40°F partly cloudy

Signature: M. Buttry

Comments / Notes:

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

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

Location: Emp - 17B **Date:** 5/19/25

Technician: Max Buffy **Quarter:** 2

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
13:25	4.16	1906	10.1	344

Sample Method: Grab

Oil/Gas visible [Y / N]

Turbid [Y / N]

Clear [Y / N]

Weather: 40°F partly cloudy

Signature: M. Buffy

Comments / Notes:

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

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

Location: EMP-20 **Date:** 5/19/25

Technician: Max Buffy **Quarter:** 2

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP

Sample Method:

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

Turbid ~~[Y/N]~~

Clear ~~[Y/N]~~

Weather: 40°F cloudy

Signature: M. Buffy

Comments / Notes:

Dry!

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

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

Location: GV-02 **Date:** 5/14/25

Technician: J. Cranford **Quarter:** 2

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

Sample Method:

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

Turbid [~~Y~~/N]

Clear [~~Y~~/~~N~~]

Weather: 40°F, Partly Cloudy

Signature:

Comments / Notes:

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

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

Location: GV-03 **Date:** 5/19/25

Technician: Max Duffy **Quarter:** 2

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	Chlorine

Sample Method:

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

Turbid ~~[Y/N]~~

Clear ~~[Y/N]~~

Weather: 40°F partly cloudy

Signature: M. Bell

Comments / Notes:

Dry!

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

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

Location: GV-4.5 **Date:** 5/19/25

Technician: Max Buffy **Quarter:** 2

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	Chlorine
10:33	6.76	372.4	5.8	25	0.105

Sample Method: Grab

Oil/Gas visible [Y / (N)]

Turbid [(Y) / N]

Clear [(Y) / N]

Weather: 40°F cloudy

Signature: M. Bell

Comments / Notes:

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

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

Location: GV-05 **Date:** 5/19/25

Technician: Max Duffy **Quarter:** 2

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	Chlorine
1105	7.53	347.3	6.4	174	0.172

Sample Method: Grab

Oil/Gas visible [Y / (N)]

Turbid [Y / (N)]

Clear [(Y) N]

Weather: 40°F Cloudy

Signature: MBell

Comments / Notes:

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

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

Location: GV06 **Date:** 5/19/25

Technician: Max Buffy **Quarter:** 2

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	Chlorine
10:00	7.19	357.8	7.8	116	0.077

Sample Method: Grab

Oil/Gas visible [Y / (N)]

Turbid [Y / (N)]

Clear [(Y) / N]

Weather: 40°F cloudy

Signature: MBM

Comments / Notes:

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

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Date: 5/15/25
Technician: J. Crawford
Quarter: 2
Static Water Level (DTW): 41.33
Well ID: Goma-4A
Is well Dry? no
If so Dry at: —
Well Depth (TD): 480 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
8:55			6.55	1357	4.8	3.66	167.0	
9:00	41.63	0.30	6.46	715.2	4.4	0.50	54.3	
9:05	41.74	0.11	6.49	504.4	5.1	0.26	31.4	0.10 gpm
9:10	41.79	0.05	6.50	499.1	5.1	0.19	26.1	
9:15	41.80	0.01	6.50	488.9	5.2	0.18	22.9	
9:20	41.80	0.00	6.51	487.4	5.2	0.16	20.2	
		Total drawdown 0.47						

Sample Method: low-flow
Rate (gpm): 0.10 * Flow rate at stabilization (during sample collection)
Time Start: 8:55 Time End: 9:20

Final Parameters	Stabilization Guidance		Met?	Comments
pH	6.51	±0.1	(Y) / N	
Conductivity	487.4	3%	(Y) / N	
Temp (deg C)	5.2	3%	Y / N	
Dissolved Oxygen	0.16	10%	Y / N	
Turbidity	~~—~~	~~10%~~	~~Y / N~~	
Oxidation/Reduction	20.2	±10	(Y) / N	
DTW Stabilized	41.80	feet	(Y) / N	
Final H2O level	41.80	feet		

If Low Flow Met Drawdown greater than 0.33 ft? Y / (N) * See Field Volume Guide
If yes, required pump vol (gal): 1.34 following stabilization
Actual vol. pumped (gal) ~2.5

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

Weather: 36° F, windy
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:** 0.47 + 0.57 + 0.3 = 1.34

Notes: well casing is broke

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Date: 5/12/25
Technician: J. Crawford
Quarter: 2
Static Water Level (DTW): 37.04
Well ID: GVMW-74
Is well Dry? no
If so Dry at: — feet
Well Depth (TD): 200

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
10:20			7.37	403.7	6.9	0.63	16.0	
10:25	~~37.20~~	0.13	7.40	402.5	6.8	0.26	-39.4	
10:30	~~37.36~~	0.16	7.38	405.6	7.0	0.14	-56.2	0.08 gpm
10:35	~~37.38~~	0.02	7.39	407.3	7.1	0.14	-77.5	
10:40	37.38	0.00	7.39	407.0	7.1	0.12	-83.1	
10:45	37.38	0.00	7.39	408.8	7.1	0.10	-90.6	
10:50	37.40	0.02	7.39	409.5	7.2	0.08	-93.9	
10:55	37.40	0.00	7.39	411.0	7.2	0.09	-95.7	
		Total drawdown						
		0.33						

Sample Method: low-flow
Rate (gpm): 0.08 * Flow rate at stabilization (during sample collection)
Time Start: 10:20 Time End: 10:55

Final Parameters	Stabilization Guidance		Met?	Comments
pH	7.39	±0.1	(Y) / N	
Conductivity	411.0	3%	(Y) / N	
Temp (deg C)	7.2	3%	(Y) / N	
Dissolved Oxygen	0.09	10%	(Y) / N	
~~Turbidity~~	~~—~~	~~10%~~	~~Y / N~~	
Oxidation/Reduction	-95.7	±10	(Y) / N	
DTW Stabilized	37.40	feet	(Y) / N	
Final H2O level	37.40	feet		

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

O/G visible: Y / (N)
Turbid? Y / (N)
Equipment Decontaminated: (Y) / N
Decontamination procedure used: Tripple rinse, Ligaid knox

Weather: 59°F, Sunny
Signature:

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

Conversions:
$1ft^3 = 7.48\ gal$
$1gal = 3.785\ L$

Show Calculations:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Date: 5/12/25
Technician: J. Crawford
Quarter: 2
Static Water Level (DTW): 31.41
Well ID: GVMW-78
Is well Dry? no
If so Dry at: —
Well Depth (TD): 50 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
12:10			7.15	666.4	7.5	7.93	103.2	
12:15	31.69	0.28	7.10	578.6	7.2	6.83	117.2	
12:20	31.75	0.06	7.05	518.0	7.3	6.59	124.8	
12:25	31.79	0.04	7.04	459.3	7.4	6.36	126.7	
12:30	31.83	0.04	6.98	467.0	7.5	6.38	125.1	0.13 gpm
12:35	31.85	0.02	6.96	444.3	7.5	6.39	125.3	
12:40	31.96	0.11	6.92	410.0	7.5	6.36	120.6	
12:45	32.01	0.05	6.85	373.2	7.4	6.44	126.9	
12:50	32.09	0.08	6.67	304.0	7.5	6.47	137.8	
12:55	32.14	0.05	6.66	304.1	7.5	6.52	138.9	
1:00	32.15	0.01	6.65	301.9	7.5	6.57	134.4	
		Total drawdown						
		0.74						

Sample Method: Low-Flow
Rate (gpm): 0.13 * Flow rate at stabilization (during sample collection)
Time Start: 12:10
Time End: 1:00

Final Parameters	Stabilization Guidance		Met?	Comments
pH	6.65	±0.1	(Y) / N	
Conductivity	301.9	3%	(Y) / N	
Temp (deg C)	7.5	3%	(Y) / N	
Dissolved Oxyger	6.57	10%	(Y) / N	
Turbidity	~~—~~	~~10%~~	~~Y / N~~	~~—~~
Oxidation/Reduction	134.4	±10	(Y) / N	
DTW Stabilized	32.15	feet	(Y) / N	
Final H2O level	32.15	feet		

If Low Flow Met Drawdown greater than 0.33 ft? (Y) / N
* See Field Volume Guide
If yes, required pump vol (gal) following stabilization: 1.63
Actual vol. pumped (gal): ~8

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

Weather: 65°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:
0.74 + 0.29 + 0.60 = 1.63

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Gressy Valley
Technician: J. Crawford
Static Water Level (DTW): 129.64
Is well Dry? NO
If so Dry at: —

Date: 5/12/25
Quarter: 2
Well ID: Gumex-8A
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
9:00			6.93	435.0	8.6	3.13	252.3	
9:05	129.78	0.09	6.91	425.9	7.5	2.70	243.0	
9:10	129.83	0.05	6.86	422.2	7.9	3.28	239.1	0.08 GPM
9:15	129.86	0.03	6.84	421.9	8.0	3.19	231.3	
9:20	129.87	0	6.83	422.4	8.1	3.19	207.9	
9:25	129.87	0	6.84	422.2	8.2	3.33	202.7	
9:30	129.87	0	6.84	422.6	8.2	3.34	194.4	
		Total Drawdown						
		0.17						

Sample Method: low-flow
Rate (gpm): 0.08 * Flow rate at stabilization (during sample collection)
Time Start: 9:00
Time End: 9:30

Final Parameters	Stabilization Guidance		Met?	Comments
pH	6.84	±0.1	(Y) / N	
Conductivity	422.6	3%	(Y) / N	
Temp (deg C)	8.2	3%	(Y) / N	
Dissolved Oxygen	3.34	10%	(Y) / N	
Turbidity		10%	Y / N	
Oxidation/Reduction	194.4	±10	(Y) / N	
DTW Stabilized	129.87	feet	(Y) / N	
Final H2O level	129.87	feet		

If Low Flow Met Drawdown greater than 0.33 ft? Y (N) * See Field Volume Guide
If yes, required pump vol (gal): — following stabilization
Actual vol. pumped (gal) ~2.0

O/G visible: Y / (N)
Equipment Decontaminated: Y / (N)
Turbid? Y / (N)
Decontamination procedure used: ~~Alconox~~ Dedicated Pump

Weather: 54° 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:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: J. Crawford
Static Water Level (DTW): 35.87
Is well Dry? NO
If so Dry at: —
Date: 5/12/25
Quarter: 2
Well ID: GUMW-8B
Well Depth (TD): 50 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
8:20			6.57	423.1	8.2	7.70	238.9	
8:25	36.55	0.68	6.60	402.9	7.9	7.38	241.1	0.079 Ac
8:30	36.59	0.04	6.60	419.4	8.0	6.99	227.5	
8:35	36.61	0.06	6.60	415.9	8.1	6.77	229.5	
8:40	36.61	0.00	6.60	417.8	8.1	6.61	230.2	
		0.71	Total drawdown					

Sample Method: low-flow
Rate (gpm): 0.07 * Flow rate at stabilization (during sample collection)
Time Start: 8:20 Time End: 8:40

Final Parameter	Stabilization Guidance		Met?	Comments
pH	6.60	±0.1	(Y) / N	
Conductivity	417.8	3%	(Y) / N	
Temp (deg C)	8.1	3%	(Y) / N	
Dissolved Oxyger	6.61	10%	(Y) / N	
~~Turbidity~~	~~—~~	~~10%~~	Y / N	
Oxidation/Reduction	230.2	±10	(Y) / N	
DTW Stabilized	36.61	feet	(Y) / N	
Final H2O level	36.61	feet		

If Low Flow Met Drawdown greater than 0.33 ft? (Y) / N
* See Field Volume Guide
If yes, required pump vol (gal) following stabilization: 1.6
Actual vol. pumped (gal): ~ 2.25

O/G visible: Y / (N)
Equipment Decontaminated: ~~Y~~ (Y) / (N)
Turbid? Y / (N)
Decontamination procedure used: Dedicated Pump

Weather: 52° 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:
0.71 + 0.29 + 0.60 = 1.6

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley **Date:** 5/19/25

Technician: J. Cranford **Quarter:** 2

Static Water Level (DTW): 235.39 **Well ID:** GMW-10

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

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
10:32			6.87	2506	5.8	3.06	256.0	
10:37	235.44	0.05	6.91	2286	5.9	1.66	228.6	
10:42	235.45	0.01	6.92	2238	5.8	1.33	225.5	0.06 gpm
10:47	235.45	0.00	6.92	2163	5.7	0.89	219.1	
10:52	235.45	0.00	6.92	2146	5.7	0.77	207.2	
10:57	235.45	0.00	6.91	2144	5.7	0.75	201.2	
11:02	235.45	0.00	6.92	2156	5.8	0.74	199.6	
		Total Drawdown						
			0.06					

Sample Method: low flow **Rate (gpm):** 0.06 **Time Start:** 10:32 **Time End:** 11:02

** Flow rate at stabilization (during sample collection)*

Final Parameters	Stabilization Guidance		Met?	Comments
pH	6.92	±0.1	(Y) / N	
Conductivity	2156	3%	(Y) / N	
Temp (deg C)	5.8	3%	(Y) / N	
Dissolved Oxygen	0.74	10%	(Y) / N	
~~Turbidity~~	~~—~~	~~10%~~	~~Y / N~~	
Oxidation/Reduction	-96	±10	(Y) / N	
DTW Stabilized	235.45	feet	(Y) / N	
Final H2O level	235.45	feet		

If Low Flow Met Drawdown greater than 0.33 ft? Y / (N) If yes, required pump vol (gal): — Actual vol. pumped (gal) ~2
** See Field Volume Guide* following stabilization

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

Weather: 43°F, Partly Cloudy
Signature: [signature]

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

Conversions:
$1ft^3 = 7.48\ gal$
$1gal = 3.785\ L$

Show Calculations:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: J. Crawford
Static Water Level (DTW): 92.11
Is well Dry? no
If so Dry at: —
Date: 5/15/25
Quarter: 2
Well ID: Gum W-15A
Well Depth (TD): 355.59 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
11:05			6.30	774	7.3	1.21	87.3	
11:10	92.68	0.53	6.40	780	6.7	0.69	49.5	
11:15	92.65	0.04	6.40	783	6.1	0.57	36.5	~~Turbidity~~ sc 0.045 ppm
11:20	92.70	0.02	6.43	782.6	6.0	0.54	31.3	
11:25	92.70	0.00	6.43	781.8	6.0	0.53	29.9	
		Total drawdown						
			0.59					

Sample Method: low-flow
Rate (gpm): ~~0.12~~ sc 0.04
Time Start: 11:05 Time End: 11:25
* Flow rate at stabilization (during sample collection)

Final Parameters	Stabilization Guidance		Met?	Comments
pH	6.43	±0.1	(Y) / N	
Conductivity	781.8	3%	(Y) / N	
Temp (deg C)	6.0	3%	(Y) / N	
Dissolved Oxygen	0.53	10%	(Y) / N	
~~Turbidity~~		~~10%~~	~~Y / N~~	
Oxidation/Reduction	29.9	±10	(Y) / N	
DTW Stabilized	92.70	feet	(Y) / N	
Final H2O level	92.70	feet		

If Low Flow Met Drawdown greater than 0.33 ft? (Y) / N
* See Field Volume Guide
If yes, required pump vol (gal) following stabilization: 1.46
Actual vol. pumped (gal): ~2.75

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

Weather: 40° 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:
0.59 + 0.57 + 0.3 = 1.46

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Date: 5/15/25
Technician: S. Canfield
Quarter: 2
Static Water Level (DTW): 79.22
Well ID: GVMW-15B
Is well Dry? no
If so Dry at: —
Well Depth (TD): 102 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
9:55			4.54	984	5.7	1.04	198.8	
10:00	79.45	0.23	4.58	974	6.1	6.50	197.0	
10:05	79.44	-0.01	4.58	969	6.4	6.55	203.7	0.08 gpm
10:10	79.44	0.00	4.58	968	6.5	0.32	205.0	
10:15	79.44	0.00	4.55	971	6.5	0.27	207.3	
		Total drawdown						
			0.22					

Sample Method: low flow
Rate (gpm): 0.08 * Flow rate at stabilization (during sample collection)
Time Start: 9:55 Time End: 10:15

Final Parameter	Stabilization Guidance		Met?	Comments
pH	4.55	±0.1	(Y) / N	
Conductivity	971.0	3%	(Y) / N	
Temp (deg C)	6.5	3%	(Y) / N	
Dissolved Oxygen	0.27	10%	(Y) / N	
~~Turbidity~~	~~—~~	~~10%~~	~~Y / N~~	
Oxidation/Reduction	207.3	±10	(Y) / N	
DTW Stabilized	79.44	feet	(Y) / N	
Final H2O level	79.44	feet		

If Low Flow Met Drawdown greater than 0.33 ft? Y / (N) * See Field Volume Guide
If yes, required pump vol (gal): — following stabilization
Actual vol. pumped (gal) ~2

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

Weather: 38°F, windy
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

Groundwater Sampling Log

Location : Grassy Valley **Date:** 5/15/25

Technician: J. Crawford **Quarter:** 2

Static Water Level (DTW): — **Well ID:** GLMW-15C

Is well Dry? Y/S **If so Dry at:** 418 **Well Depth (TD):** 418 **feet**

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

Sample Method: — **Rate (gpm):** — **Time Start:** — **Time End:** —

** Flow rate at stabilization (during sample collection)*

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

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

** See Field Volume Guide* following stabilization

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

Equipment Decontaminated: Y / N

Decontamination procedure used:

Weather: 40°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: Well is Dry

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: J. Crawford
Static Water Level (DTW): 3.19
Is well Dry? no
If so Dry at: —
Date: 5/5/25
Quarter: 2
Well ID: Gumm-22A
Well Depth (TD): 30 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
12:40			7.84	369.3	5.4	1.51	99.6	
12:45	3.50	0.21	7.88	360.0	4.7	0.64	114.0	
12:50	3.55	0.05	7.89	360.6	5.1	0.53	114.1	0.08 gpm
12:55	3.69	0.14	7.91	360.3	5.0	0.43	112.8	
1:00	3.71	0.02	7.92	360.6	5.0	0.48	109.8	
1:05	~~1.05~~ x 3.72	0.01	7.94	360.6	4.9	0.45	104.1	
		Total drawdown						
		0.43						

Sample Method: low-flow
Rate (gpm): 0.08 gpm
* Flow rate at stabilization (during sample collection)
Time Start: 12:40 Time End: 1:05

Final Parameters	Stabilization Guidance		Met?	Comments
pH	7.94	±0.1	Y / N	
Conductivity	360.6	3%	Y / N	
Temp (deg C)	4.9	3%	Y / N	
Dissolved Oxygen	0.45	10%	Y / N	
~~Turbidity~~		~~10%~~	~~Y / N~~	
Oxidation/Reduction	164.1	±10	Y / N	
DTW Stabilized	3.72	feet	Y / N	
Final H2O level	3.72	feet		

If Low Flow Met Drawdown greater than 0.33 ft? (Y) ~~N~~ JC
* See Field Volume Guide
If yes, required pump vol (gal) following stabilization: 1.13
Actual vol. pumped (gal) ~2.5

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

Decontamination procedure used: DI water rinse, Alconox

Weather: 26° F, snow
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:
0.43 + 0.40 + 0.30 = 1.13

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley — Date: 5/5/25
Technician: J. Crumbie — Quarter: 2
Static Water Level (DTW): 4.02 — Well ID: GLMW-22B
Is well Dry? no — If so Dry at: — feet — Well Depth (TD): 30

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
11:25			6.67	505.5	5.3	0.48	133.2	
11:30	4.16	0.14	6.68	340.7	5.4	0.19	124.4	
11:35	4.18	0.02	6.68	367.3	5.4	0.14	132.7	0.13 GPM
11:40	4.19	0.01	6.69	382.0	5.4	0.15	136.9	
11:45	4.20	0.01	6.70	382.9	5.4	0.14	140.6	
11:50	4.20	0.00	6.71	377.0	5.4	0.19	145.3	
		Total drawdown						
		0.18						

Sample Method: low flow — Rate (gpm): 0.13 — Time Start: 11:25 — Time End: 11:50
* Flow rate at stabilization (during sample collection)

Final Parameters	Stabilization Guidance		Met?	Comments
pH	6.71	±0.1	(Y) / N	
Conductivity	377.0	3%	(Y) / N	
Temp (deg C)	5.4	3%	(Y) / N	
Dissolved Oxygen	0.19	10%	(Y) / N	
~~Turbidity~~		~~10%~~	~~Y / N~~	
Oxidation/Reduction	145.3	±10	(Y) / N	
DTW Stabilized	4.20	feet	(Y) / N	
Final H2O level	4.20	feet		

If Low Flow Met Drawdown greater than 0.33 ft? Y / (N) — If yes, required pump vol (gal): — Actual vol. pumped (gal) ~3.5
* See Field Volume Guide — following stabilization

O/G visible: Y / (N) — Turbid? Y / (N)
Equipment Decontaminated: (Y) / N
Decontamination procedure used: Tripple rinse, Alconox

Weather: 36°F, snow
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:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: J. Crawford
Static Water Level (DTW): 215.23
Is well Dry? no
If so Dry at: —
Date: 5/20/25
Quarter: 2
Well ID: GVMW-24A
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
		Unable to Pump						
		Due to silty water						
		INSUFFICIENT						

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

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

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

O/G visible: ~~Y~~ / N
Turbid? (Y) / ~~N~~
Equipment Decontaminated: (Y) / N
Decontamination procedure used: Tripple Rinse, Alconox

Weather: 43° 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: Well is unable to Pump due to silt in water

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Grassy Valley
Technician: E Garcia
Static Water Level (DTW): 88.99
Is well Dry? NO
If so Dry at: —

Date: 5/5/25
Quarter: 2
Well ID: GUMW-24B
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
1345	88.99		6.63	2862.3	3.31	5.98	121.7	0.045 gpm
1350	89.20	+0.21	6.60	2877.5	3.52	5.66	127.7	
1355	89.09	-0.11	6.65	2866.9	3.42	6.11	145.3	
1400	89.10	0.01	6.63	2885.4	3.51	6.17	155.4	
1405	89.07	-0.03	6.79	2884.3	3.55	6.20	156.3	
1410	89.06	0.06	6.84	1.27	5.25	8.83	153.8	
1415	89.00	0.01	6.36	2895.6	6.30	4.27	142.6	
1420	89.00	0.00	6.36	2889.3	6.21	4.15	142.6	
1425	89.00	0.00	6.34	2892.4	6.18	4.13	147.6	
		Total drawdown						
		0.02						

Sample Method: Low flow
Rate (gpm): 0.045 gpm * Flow rate at stabilization (during sample collection)
Time Start: 1345 Time End: 1425

Final Parameters	Stabilization Guidance		Met?	Comments
pH	6.34	±0.1	(Y) / N	
Conductivity	2892.4	3%	(Y) / N	
Temp (deg C)	6.18	3%	(Y) / N	
Dissolved Oxygen	4.13	10%	(Y) / N	
Turbidity		~~10%~~	Y / N	
Oxidation/Reduction	147.6	±10	(Y) / N	
DTW Stabilized	89.00	feet	(Y) / N	
Final H2O level	89.00	feet		

If Low Flow Met Drawdown greater than 0.33 ft? Y / (N) If yes, required pump vol (gal): — following stabilization
Actual vol. pumped (gal) 22
* See Field Volume Guide

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

Decontamination procedure used:

Weather: 30° F, Snow
Signature: E

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:**

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: J. Crawford
Static Water Level (DTW): 49.02
Is well Dry? NO
If so Dry at: —

Date: 5/20/25
Quarter: 2
Well ID: Gumm-25
Well Depth (TD): 79 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
11:30			3.60	8644	6.6	3.06	442.9	
11:35	49.13	0.11	3.82	8716	6.6	0.91	510.3	
11:40	49.19	0.06	3.80	8708	6.7	0.87	514.2	
11:45	49.20	0.01	3.77	8710	6.8	0.85	517.4	0.09 gpm
11:50	49.20	0.00	3.72	8699	6.8	0.81	523.8	
11:55	49.20	0.00	3.71	8673	6.9	0.79	526.7	
			Total drawdown					
			0.18					

Sample Method: low-flow
Rate (gpm): 0.09 * Flow rate at stabilization (during sample collection)
Time Start: 11:30
Time End: 11:55

Final Parameter	Stabilization Guidance		Met?	Comments
pH	3.71	±0.1	(Y) / N	
Conductivity	8673	3%	(Y) / N	
Temp (deg C)	6.9	3%	(Y) / N	
Dissolved Oxyger	0.79	10%	Y / N	
Turbidity		10%	Y / N	
Oxidation/Reduction	526.7	±10	(Y) / N	
DTW Stabilized	49.20	feet	(Y) / N	
Final H2O level	49.20	feet		

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

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

Weather: 41°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:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Date: 5/5/25
Technician: J. Crawford
Quarter: 2
Static Water Level (DTW): 5.85
Well ID: GMW-26A
Is well Dry? NO
If so Dry at: —
Well Depth (TD): 79 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
10:40			7.79	297.1	4.7	0.65	139.9	
10:45	5.90	0.05	7.79	299.1	4.7	0.57	136.0	0.12 gpm
10:50	5.93	0.03	7.96	307.2	4.9	0.24	136.9	
10:55	5.94	0.01	7.97	307.6	4.9	0.21	138.5	
11:00	5.94	0.00	7.97	307.5	5.0	0.16	137.7	
	Total	Drawdown						
		0.09						

Sample Method: low-flow
Rate (gpm): 0.12 * Flow rate at stabilization (during sample collection)
Time Start: 10:40 Time End: 11:00

Final Parameters	Stabilization Guidance		Met?	Comments
pH	7.97	±0.1	(Y) / N	
Conductivity	307.5	3%	(Y) / N	
Temp (deg C)	5.0	3%	(Y) / N	
Dissolved Oxygen	0.16	10%	(Y) / N	
Turbidity		10%	~~Y / N~~	
Oxidation/Reduction	137.7	±10	(Y) / N	
DTW Stabilized	5.94	feet	(Y) / N	
Final H2O level	5.94	feet		

If Low Flow Met Drawdown greater than 0.33 ft? Y / (N) * See Field Volume Guide
If yes, required pump vol (gal): — following stabilization
Actual vol. pumped (gal) ~2.5

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

Weather: 38° F, snow.
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:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: S. Crawford
Static Water Level (DTW): 5.86
Is well Dry? NO
If so Dry at: —
Date: 5/5/25
Quarter: 2
Well ID: Gumm-26B
Well Depth (TD): 25 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
9:55			6.48	126.8	4.3	7.63	180.6	
10:00	5.96	0.10	6.49	123.0	4.3	7.25	209.1	0.12 gpm
10:05	6.00	0.04	6.50	122.5	4.3	7.32	212.6	
10:10	6.00	0.00	6.50	123.5	4.2	7.06	225.6	
10:15	6.00	0	6.50	121.8	4.2	6.97	229.5	
10:20	6.00	0	6.51	122.4	4.3	7.07	233.4	
		Total drawdown						
		0.14						

Sample Method: low-flow
Rate (gpm): 0.12 * Flow rate at stabilization (during sample collection)
Time Start: 9:55 **Time End:** 10:20

Final Parameters	Stabilization Guidance		Met?	Comments
pH	6.51	±0.1	(Y) / N	
Conductivity	122.4	3%	(Y) / N	
Temp (deg C)	4.3	3%	(Y) / N	
Dissolved Oxyger	7.07	10%	(Y) / N	
~~Turbidity~~	~~—~~	~~10%~~	~~Y / N~~	
Oxidation/Reduction	233.4	±10	(Y) / N	
DTW Stabilized	6.00	feet	(Y) / N	
Final H2O level	6.00	feet		

If Low Flow Met Drawdown greater than 0.33 ft? Y / (N) * See Field Volume Guide
If yes, required pump vol (gal): ~~3.96~~ following stabilization
Actual vol. pumped (gal) ~3.25

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

Weather: 36° 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:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Date: 5/20/25
Technician: J. Crawford
Quarter: 2
Static Water Level (DTW): 52.10
Well ID: GMW-27
Is well Dry? no
If so Dry at: —
Well Depth (TD): 74.28 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
10:23			4.63	6711	5.3	7.77	353.6	
10:28	52.15	0.03	4.56	6393	6.1	2.02	305.8	
10:33	52.18	0.05	4.44	6469	6.1	0.94	310.4	
10:38	52.19	0.01	4.39	6281	6.7	0.84	316.9	0.07 gpm
10:43	52.19	0.00	4.35	6160	6.8	0.77	330.1	
10:48	52.20	0.01	4.32	5824	6.9	0.65	343.0	
10:53	52.20	0.00	4.31	5768	6.9	0.70	349.4	
10:58	52.20	0.00	4.30	5719	6.9	0.71	356.0	
		Total drawdown						
			0.11					

Sample Method: low-flow
Rate (gpm): 0.07 * Flow rate at stabilization (during sample collection)
Time Start: 10:13
Time End: 10:58

Final Parameters	Stabilization Guidance		Met?	Comments
pH	4.30	±0.1	(Y) / N	
Conductivity	5719	3%	(Y) / N	
Temp (deg C)	6.9	3%	(Y) / N	
Dissolved Oxygen	0.71	10%	(Y) / N	
Turbidity	—	10%	Y / N	
Oxidation/Reduction	~~53~~ 356.0	±10	(Y) / N	
DTW Stabilized	52.20	feet	(Y) / N	
Final H2O level	52.20	feet		

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

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

Weather: 40° 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:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Grassy Valley
Date: 5/20/25
Technician: J. Crawford
Quarter: 2
Static Water Level (DTW): 32.28
Well ID: GVMW-28
Well Depth (TD): 71.56
Is well Dry? no
If so Dry at: — feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/l	ORP	Notes
7:55			2.91	14,109	4.1	3.80	562.9	
8:00	32.86	0.58	2.92	13683	3.9	3.77	562.9	
8:05	32.91	0.05	2.93	13532	3.8	3.26	563.0	0.04 gPm
8:10	32.93	0.02	2.93	13410	3.7	3.24	565.5	
8:15	32.93	0.00	2.95	13351	3.8	3.27	570.0	
8:20	32.92	-0.01	2.95	13311	3.8	3.29	569.9	
		Total drawdown						
		0.64						

Sample Method: low-flow Rate (gpm): 0.04 Time Start: 7:55 Time End: 8:20
* Flow rate at stabilization (during sample collection)

Final Parameters	Stabilization Guidance		Met?	Comments
pH	2.95	±0.1	(Y) / N	
Conductivity	13311	3%	(Y) / N	
Temp (deg C)	3.8	3%	(Y) / N	
Dissolved Oxygen	3.29	10%	(Y) / N	
Turbidity	~~—~~	~~10%~~	~~Y / N~~	
Oxidation/Reduction	569.9	±10	(Y) / N	
DTW Stabilized	32.93	feet	(Y) / N	
Final H2O level	32.92	feet		

If Low Flow Met Drawdown greater than 0.33 ft? (Y) / N
* See Field Volume Guide
If yes, required pump vol (gal) following stabilization: 1.35 Actual vol. pumped (gal) ~2

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

Weather: 32°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:
0.64 + 0.41 + 0.3 = 1.35

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : GUMW-29 **Date:** 5/20/25

Technician: Max Buffy **Quarter:** 2

Static Water Level (DTW): 38.01 **Well ID:** GUMW-29

Is well Dry? yes **If so Dry at:** 38.01 **Well Depth (TD):** 38.11 feet

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

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

* *Flow rate at stabilization (during sample collection)*

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

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

* *See Field Volume Guide*

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

Decontamination procedure used:

Weather: 33°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:**

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: J. Crawford / Max Burt
Static Water Level (DTW): 39.44
Is well Dry? NO
If so Dry at: —
Date: 5/20/25 - 5/21/25
Quarter: 2
Well ID: Grassy 30
Well Depth (TD): 51.32 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
16:11			3.23	4990.3	5.71	—	559.3	
4:45	50.06							
5/21/25 8:55	36.66		3.21	5131	6.10		564	

Sample Method: Purge return
Rate (gpm): —
* Flow rate at stabilization (during sample collection)
Time Start: 5/20/25 9:45
Time End: 5/21/25 8:30

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

If Low Flow Met Drawdown greater than 0.33 ft? Y / N
* See Field Volume Guide
If yes, required pump vol (gal) following stabilization: —
Actual vol. pumped (gal): ~14

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

Weather: 35° 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:
51.35 - 39.44 = 11.91
11.91 X 3 = 10.71
51.35 - 10.71 = 40.64 Min DTW

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : _____ **Date:** 5/20/25

Technician: Max Buffy **Quarter:** 2

Static Water Level (DTW): 61.29 **Well ID:** GVMW - 31

Is well Dry? yes **If so Dry at:** 61.29 **Well Depth (TD):** 61.40 **feet**

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

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

** Flow rate at stabilization (during sample collection)*

Final Parameters	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		±10	Y / N	
DTW Stabilized		feet	Y / N	
Final H2O level		feet		

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

** See Field Volume Guide*

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

Equipment Decontaminated: Y / N

Decontamination procedure used: _____

Weather: 5/20 - 37°F Sunny

Signature: M Buffy

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:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : _____ **Date:** 5/20/25

Technician: Max Buffy **Quarter:** 2

Static Water Level (DTW): 66.75 **Well ID:** GUMW-32

Is well Dry? yes **If so Dry at:** 66.75 **Well Depth (TD):** 67.18 **feet**

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

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 Oxyge		10%	Y / N	
Turbidity		10%	Y / N	
Oxidation/Red uction		±10	Y / N	
DTW Stabilized		feet	Y / N	
Final H2O level		feet		

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

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

Decontamination procedure used: _____

Weather: 5/20 - 37°F Sunny

Signature: M Buff

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:**

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: J. Crawford
Static Water Level (DTW): 62.08
Is well Dry? no
If so Dry at: —
Date: 5/19/25
Quarter: 2
Well ID: Cumw-33
Well Depth (TD): 65.70 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/l	ORP	Notes
11:45			3.94	5069	5.8	1.79	412.1	
11:56	63.85	1.77	3.93	4565	6.1	0.50	443.2	
11:55	65.09	1.23	4.04	4396	6.2	0.45	444.8	0.05 gpm
12:00	65.54	0.46	4.02	4377	6.8	0.42	454.6	
12:05	65.95	0.41	4.10	4396	6.3	0.46	446.1	
12:10	66.45	0.50	4.04	4433	6.9	0.47	439.9	
12:15	66.85	0.40	4.07	4464	7.0	0.48	440.8	
12:20	67.15	0.30	4.08	4492	7.0	0.48	440.9	
12:25	67.35	0.20	4.05	4511.0	6.9	0.49	441.1	
		Total drawdown						
			5.27					

Sample Method: low-flow
Rate (gpm): 0.05 * Flow rate at stabilization (during sample collection)
Time Start: 11:45 Time End: 12:25

Final Parameters	Stabilization Guidance		Met?	Comments
pH	4.05	±0.1	(Y) / N	
Conductivity	4511	3%	(Y) / N	
Temp (deg C)	6.9	3%	(Y) / N	
Dissolved Oxygen	0.49	10%	(Y) / N	
Turbidity	~~—~~	~~10%~~	~~Y / N~~	
Oxidation/Reduction	441.1	±10	(Y) / N	
DTW Stabilized	na	feet	Y / (N)	
Final H2O level	67.35	feet		

If Low Flow Met Drawdown greater than 0.33 ft? (Y) ~~N~~ JC * See Field Volume Guide
If yes, required pump vol (gal): — following stabilization
Actual vol. pumped (gal) ~4.75

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

Weather: 41° 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:	Show Calculations:
$1ft^3 = 7.48\ gal$ $1gal = 3.785\ L$	

Notes: Water level did not stabilize

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: grassy valley
Date: 5/19/25
Technician: J. Cranford
Quarter: 2
Static Water Level (DTW): 62.09
Well ID: GLMW-34
Well Depth (TD): 84.62
Is well Dry? NO
If so Dry at: — **feet**

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/l	ORP	Notes
1:00			5.75	4669	5.6	1.38	282.1	
1:05	63.13	1.04	5.78	4100	5.3	0.92	290.5	
1:10	63.21	0.08	5.81	3894	6.1	0.87	294.7	0.04
1:15	63.33	0.12	5.80	3894	6.1	0.86	294.7	
1:20	63.59	0.26	5.75	3917	6.2	0.97	291.3	
1:25	63.75	0.14	5.72	3984	6.3	1.06	269.3	
1:30	63.83	0.08	5.74	3966	7.3	0.88	284.2	
1:35	63.89	0.06	5.72	3968	7.2	0.86	290.2	
1:40	63.93	0.04	5.71	4008	7.1	0.84	292.5	
1:45	63.97	0.04	5.67	4054	7.1	0.81	293.1	
		Total drawdown						
			1.86					

Sample Method: low-flow **Rate (gpm):** 0.04 **Time Start:** 1:00 **Time End:** 1:45
** Flow rate at stabilization (during sample collection)*

Final Parameter	Stabilization Guidance		Met?	Comments
pH	5.67	±0.1	(Y) / N	
Conductivity	4054	3%	(Y) / N	
Temp (deg C)	7.1	3%	(Y) / N	
Dissolved Oxygen	0.81	10%	(Y) / N	
~~Turbidity~~	~~—~~	~~10%~~	~~Y / N~~	
Oxidation/Reduction	293.1	±10	(Y) / N	
DTW Stabilized	NA	feet	Y / (N)	
Final H2O level	63.97	feet		

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

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

Weather: 45°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:

notes; water level did not stabilize.

SSR MINING

Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley **Date:** 5/29/25

Technician: T. Reed **Quarter:** 2

Static Water Level (DTW): N/A **Well ID:** GVMW-35A

Is well Dry? NO **If so Dry at:** — **Well Depth (TD):** 340' feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
11:22	—	—	11.98	963	7.4	—	-16	

Sample Method: Grab **Rate (gpm):** — **Time Start:** 11:22 **Time End:** 11:22

** 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 Oxyge		10%	Y / N	
Turbidity		10%	Y / N	
Oxidation/Reduction Potential		±10	Y / N	
DTW Stabilized		feet	Y / N	
Final H2O level		feet		

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

** See Field Volume Guide* following stabilization

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

Equipment Decontaminated: Y / (N)

Decontamination procedure used: Dedicated pump

Weather: Overcast 43°

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 get water level

QC J. Crawford

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: J. Crawford
Static Water Level (DTW): 33.60
Date: 5/15/25
Quarter: 2
Well ID: GVMW-35B
Is well Dry? NO
If so Dry at: —
Well Depth (TD): 72.90 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
12:35			9.42	4668	5.4	2.76	145.6	
12:40	34.38	0.78	8.24	4651	5.6	1.43	122.2	
12:45	34.93	0.55	8.21	4585	5.7	1.60	124.6	0.11 gpm
12:50	35.15	0.22	8.14	4553	5.8	1.60	123.1	
12:55	35.39	0.24	8.11	4564	5.8	1.76	122.7	
1:00	35.51	0.12	8.12	4543	5.9	1.86	122.1	
1:05	35.62	0.11	8.14	4522	5.0	16* 1.65	122.1	
1:10	35.68	0.06	8.16	4514	6.0	1.52	121.9	
1:15	36.39	0.71	8.22	4472	5.9	1.49	116.1	
		Total drawdown						
			2.79					

Sample Method: low-flow
Rate (gpm): 0.11 * Flow rate at stabilization (during sample collection)
Time Start: 12:35 Time End: 1:15

Final Parameters	Stabilization Guidance		Met?	Comments
pH	8.22	±0.1	(Y) / N	
Conductivity	4472	3%	(Y) / N	
Temp (deg C)	5.9	3%	(Y) / N	
Dissolved Oxyger	1.49	10%	(Y) / N	
Turbidity	~~—~~	~~10%~~	~~Y / N~~	
Oxidation/Reduction	116.1	±10	(Y) / N	
DTW Stabilized	36.39	feet	Y / (N)	Did not stabilize
Final H2O level	36.39	feet		

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

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

Weather: 42°F, windy
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

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Date: 5/20/25
Technician: Max Buffy
Quarter: 2
Static Water Level (DTW): 16.36
Well ID: GVMW-36
Well Depth (TD): 37.99
Is well Dry? NO
If so Dry at: — feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
1015	16.36		3.39	5416	4.61	5.82	549.9	
1020	18.42	-2.06	3.46	5362.3	4.78	5.74	552.9	
1025	18.92	-0.5	3.48	5260.1	4.71	5.80	550.5	
1030	19.10	-0.18	3.50	5266.5	4.61	5.73	546.4	
1035	19.88	-0.78	3.49	5256.6	5.10	5.84	550.0	
1040	20.30	-0.42	3.50	5158.8	5.02	5.96	548.0	
1045	20.57	-0.27	3.52	5142.2	5.16	5.90	540.6	
1050	21.41	-0.84	3.51	5142.3	5.26	6.07	548.0	
1055	22.03	-0.62	3.52	5134.0	5.21	6.04	544.7	
1100	22.51	-0.48	3.54	5166.6	5.30	5.94	536.7	
		Total Drawdown						
			6.15					

Sample Method: Lowflow
Rate (gpm): 0.06 * Flow rate at stabilization (during sample collection)
Time Start: 1015 Time End: 1100

Final Parameters	Stabilization Guidance		Met?	Comments
pH	3.54	±0.1	(Y) / ~~N~~	JC
Conductivity	5166.6	3%	(Y) / N	
Temp (deg C)	5.20	3%	(Y) / ~~N~~	MB
Dissolved Oxyge	5.94	10%	(Y) / N	
Turbidity	~~—~~	~~10%~~	~~Y / N~~	
Oxidation/Reduction	536.7	±10	Y / (N)	
DTW Stabilized	na	feet	Y / (N)	
Final H2O level	22.51	feet		

If Low Flow Met Drawdown greater than 0.33 ft? (Y) N
* See Field Volume Guide
If yes, required pump vol (gal) following stabilization: na
Actual vol. pumped (gal): 3.5 Gallons

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

Weather: 39°F Sunny
Signature: M. Buff

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:

718.23

Notes: Water level or ORP did not stabilize

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Date: 5/5/25
Technician: E Garcia
Quarter: 2
Static Water Level (DTW): 36.82
Well ID: GV[illegible]W-37A
Is well Dry? —
If so Dry at: —
Well Depth (TD): 201.60 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
1015	36.35							
*1020	35.73	0.38	8.86	532.82	5.88	3.33	212.4	0.03 gpm
1025	36.78	0.05	8.83	529.20	5.47	2.70	207.7	
1030	36.78	0.00	8.91	526.44	5.45	2.45	205.0	
1035	36.78	0.00	8.94	528.23	5.16	2.84	204.9	
1040	36.75	*0.03	8.96	527.17	5.00	2.33	203.1	
1045	36.75	0.00	8.99	526.64	4.96	2.20	200.3	
1050	36.75	0.00	9.09	525.22	4.95	2.22	199.9	
1055	36.75	0.00	9.09	523.86	4.97	2.21	194.8	
1100	36.74	-0.01	9.09	523.78	4.90	2.21	193.6	
			Total drawdown					
			0.45					

Sample Method: Low flow
Rate (gpm): 0.03 * Flow rate at stabilization (during sample collection)
Time Start: 1010 Time End: 1100

Final Parameters	Stabilization Guidance		Met?	Comments
pH	9.09	±0.1	(Y) / N	
Conductivity	523.78	3%	(Y) / N	
Temp (deg C)	4.9	3%	(Y) / N	
Dissolved Oxygen	2.21	10%	(Y) / N	
Turbidity	—	10%	Y / N	
Oxidation/Reduction	193.6	±10	(Y) / N	
DTW Stabilized	36.75	feet	(Y) / N	
Final H2O level	36.74	feet		

If Low Flow Met Drawdown greater than 0.33 ft? (Y) / N
* See Field Volume Guide
If yes, required pump vol (gal) following stabilization: 1.89 Actual vol. pumped (gal): 2.5 gal

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

Decontamination procedure used:

Weather: 35° Snow
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:
0.45 + 1.14 + 0.3 = 1.89

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Date: 5/5/25
Technician: E Garcia
Quarter: 2
Static Water Level (DTW): 36.22
Well ID: GVM-37B
Is well Dry? NO
If so Dry at: —
Well Depth (TD): ~~98.01~~ 74.72 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
1203	36.24							0.026 gpm
1208	36.32	0.08	8.29	638.11	5.15	2.25	-142.8	
1213	36.24	-0.08	8.27	642.44	5.10	1.78	-156.9	
1218	36.24	0.00	8.26	637.81	4.99	1.42	-176.0	
1223	36.24	0.00	8.34	632.07	4.76	1.30	-187.8	
1228	36.24	0.00	8.28	614.79	4.79	1.10	-196.7	
1233	36.24	0.00	8.19	605.83	4.82	0.97	-199.0	
1238	36.24	0.00	8.10	596.67	4.99	0.83	-202.9	
1243	36.22	*0.02	8.05	592.41	4.81	0.79	-206.2	
1248	36.22	0.00	7.98	591.32	4.78	0.76	-208.2	
1253	36.22	0.00	7.95	590.24	4.75	0.75	-207.6	
1258								
		Total drawdown 0.02						

Sample Method: Low flow
Rate (gpm): 0.026 gpm * Flow rate at stabilization (during sample collection)
Time Start: 1203 Time End: 1253

Final Parameters	Stabilization Guidance		Met?	Comments
pH	7.95	±0.1	(Y) / N	
Conductivity	590.24	3%	(Y) / N	
Temp (deg C)	4.75	3%	(Y) / N	
Dissolved Oxygen	0.75	10%	(Y) / N	
Turbidity	—	~~10%~~	Y / N	
Oxidation/Reduction	-207.6	±10	(Y) / N	
DTW Stabilized	36.22	feet	(Y) / N	
Final H2O level	36.22	feet		

If Low Flow Met Drawdown greater than 0.33 ft? Y / (N) * See Field Volume Guide
If yes, required pump vol (gal): — following stabilization
Actual vol. pumped (gal) ~2.5

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

Weather: 37° Snow
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:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Grassy Valley
Date: 5/12/25
Technician: J. Crawford
Quarter: 2
Static Water Level (DTW): 37.07
Well ID: GUMW-107F
Is well Dry? NO
If so Dry at: —
Well Depth (TD): 200 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
10:55			7.34	411.6	7.2	0.09	-95.7	

Sample Method: low-flow
Rate (gpm): 0.08 * Flow rate at stabilization (during sample collection)
Time Start: 10:55 Time End: 10:55

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

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

O/G visible: Y / (N)
Turbid? Y / (N)
Equipment Decontaminated: (Y) / N
Decontamination procedure used: Tripple rinse, AlC Ic nox

Weather: 59°F, Sunny
Signature:

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

Notes: Duplicate of GUMW-74

SSR MINING

Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Grassy Valley **Date:** 5/28/25

Technician: J. Cranford **Quarter:** 2

Static Water Level (DTW): — **Well ID:** OSABH-12

Is well Dry? Yes **If so Dry at:** 34 **Well Depth (TD):** 39 **feet**

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

Dry

Sample Method: — **Rate (gpm):** — **Time Start:** — **Time End:** —

* Flow rate at stabilization (during sample collection)

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

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

* See Field Volume Guide — following stabilization

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

Equipment Decontaminated: ~~Y / N~~

Decontamination procedure used: _____

Weather: 43°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:

SSR MINING

Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Jessy Valley **Date:** 5/28/25

Technician: J. Crawford **Quarter:** 2

Static Water Level (DTW): — **Well ID:** OSTBH-14

Is well Dry? YES **If so Dry at:** 29 **Well Depth (TD):** 29 **feet**

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

Sample Method: — **Rate (gpm):** — **Time Start:** — **Time End:** —

** Flow rate at stabilization (during sample collection)*

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

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

** See Field Volume Guide*

O/G visible: Y / N

Equipment Decontaminated: Y / N

Turbid? Y / N

Decontamination procedure used:

Weather: 43°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:**

SSR MINING

Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: J. Cranford / T. Reed
Static Water Level (DTW): 34.6
Is well Dry? NO
If so Dry at: —
Date: 5/28/25 – 5/29/25
Quarter: 2
Well ID: OSABH-16
Well Depth (TD): 40.4 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
5/28								
12:30			3.5	4596	13.2	—	479	
12:40	39.91							
5/29								
10:00	34.79		3.44	5293	8.1	—	525	

Sample Method: Purge + Return
Rate (gpm): — * Flow rate at stabilization (during sample collection)
Time Start: 5/28/25 12:30 Time End: 10:00 5/29/25

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

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

O/G visible: Y / (N)
Turbid? Y / (N)
Equipment Decontaminated: (Y) / N
Decontamination procedure used: triple Rinse liquid Knox

Weather: 63° 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:
40.4 − 34.6 = 5.8
5.8 × .90 = 5.22
40.4 − 5.22 = 35.18 dtw

QC: T. Reed.

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Grassy Valley
Date: 5/20/25
Technician: J. Cranford
Quarter: 2
Static Water Level (DTW): 13.72
Well ID: OSAR H-17
Well Depth (TD): 30.35
Is well Dry? NO
If so Dry at: — feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/l	ORP	Notes
8:58			2.87	35,261	4.0	1.65	527.2	
9:03	13.98	0.26	2.87	35,165	4.4	0.87	533.1	
9:08	13.99	0.01	2.89	34971	4.4	0.75	536.2	0.07 gpm
9:13	14.00	0.01	2.89	34821	4.8	0.71	537.1	
9:18	14.00	0.00	2.90	34675	4.8	0.69	539.2	
~~9:23~~	Jc							
		Total drawdown						
		0.28						

Sample Method: low-flow
Rate (gpm): 0.07 * Flow rate at stabilization (during sample collection)
Time Start: 8:58 Time End: 9:18

Final Parameters	Stabilization Guidance		Met?	Comments
pH	2.90	±0.1	(Y) / N	
Conductivity	34675	3%	(Y) / N	
Temp (deg C)	4.8	3%	(Y) / N	
Dissolved Oxyge	0.69	10%	Y / N	
~~Turbidity~~	~~—~~	~~10%~~	~~Y / N~~	
Oxidation/Red uction	539.2	±10	(Y) / N	
DTW Stabilized	14.00	feet	(Y) N	
Final H2O level	14.00	feet		

If Low Flow Met Drawdown greater than 0.33 ft? Y / (N) If yes, required pump vol (gal): — Actual vol. pumped (gal) ~~0.~~ 2.25 JC
* See Field Volume Guide following stabilization

O/G visible: Y / (N)
Turbid? (Y) / N
Equipment Decontaminated: (Y) / N
Decontamination procedure used: Tripple rinse, Alconox
Weather: 34° 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:
$1 ft^3 = 7.48\ gal$
$1 gal = 3.785\ L$

Show Calculations:

SSR MINING

Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Grassy Valley **Date:** 5/28/25

Technician: J. Crawford **Quarter:** 2

Static Water Level (DTW): ~~—~~ **Well ID:** OSABH-18

Is well Dry? Yes **If so Dry at:** 52 **Well Depth (TD):** 52 **feet**

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

Dry

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 Oxyge		10%	Y / N	
Turbidity		~~10%~~	Y / N	
Oxidation/Reduction Potential		±10	Y / N	
DTW Stabilized		feet	Y / N	
Final H2O level		feet		

If Low Flow Met Drawdown greater than 0.33 ft? ~~Y / N~~ If yes, required pump vol (gal): ~~—~~ Actual vol. pumped (gal) ~~—~~

** See Field Volume Guide* following stabilization

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

Equipment Decontaminated: ~~Y / N~~

Decontamination procedure used:

Weather: 44°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:

SSR MINING

Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Grassy Valley
Date: 5/20/25
Technician: J. Crawford
Quarter: 2
Static Water Level (DTW): 13.72
Well ID: OSABH-117E
Is well Dry? NO
If so Dry at: —
Well Depth (TD): 30.35 **feet**

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
9:18			2.90	34675	4.8	0.69	539.2	

Sample Method: low-flow **Rate (gpm):** 0.07 **Time Start:** 9:16 **Time End:** 9:18
** 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 Meth Drawdown greater than 0.33 ft? ~~Y / N~~ If yes, required pump vol (gal): — Actual vol. pumped (gal) ~2.23
** See Field Volume Guide* following stabilization

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

Weather: 34°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: Duplicate of OSABH-17.

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

Location: RB-0519 **Date:** 5/19/25

Technician: Jordan Cranford **Quarter:** 2

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
2:35	5.13	15.02	14.7	445

Sample Method: Grab

Oil/Gas visible [Y / (N)]

Turbid [Y (N)]

Clear [Y / N]

Weather: 42°F cloudy

Signature:

Comments / Notes:

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

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

Location: Seep-1 **Date:** 5/19/25

Technician: Mark Buffy **Quarter:** 2

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP

Sample Method: —

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

Turbid ~~[Y/N]~~

Clear ~~[Y/N]~~

Weather: —

Signature: M. Bell

Comments / Notes:

Dry!

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

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

Location: Seep-2 **Date:** 5/19/25

Technician: Max Buffy **Quarter:** 2

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP

Sample Method: —

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

Turbid ~~[Y/N]~~

Clear ~~[Y/N]~~

Weather: —

Signature: M. Buffy

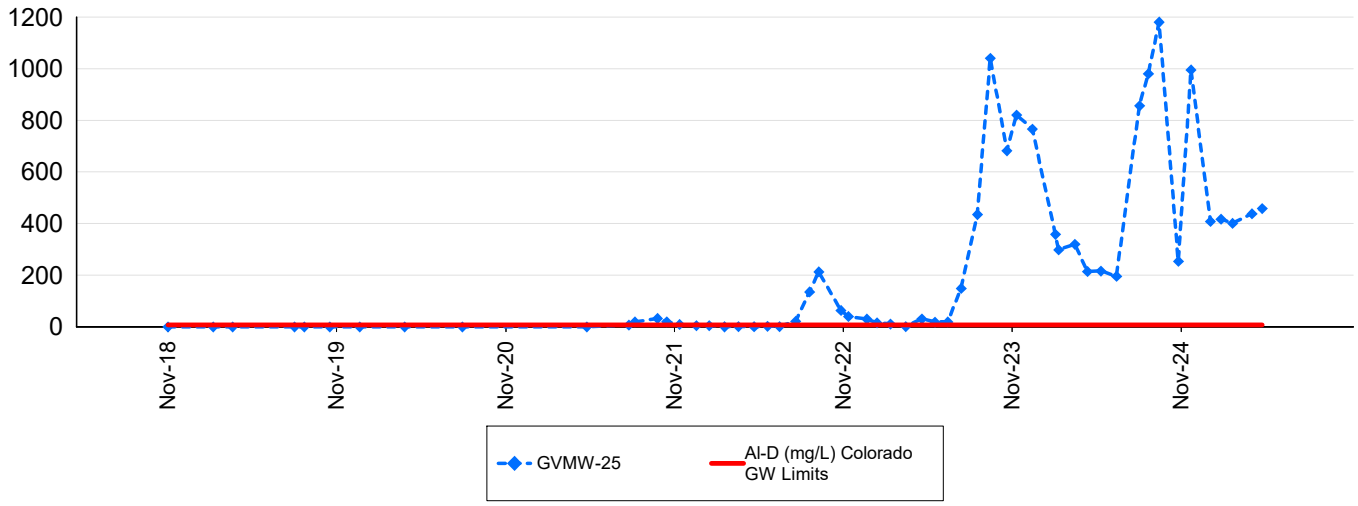
Comments / Notes:

Dry!

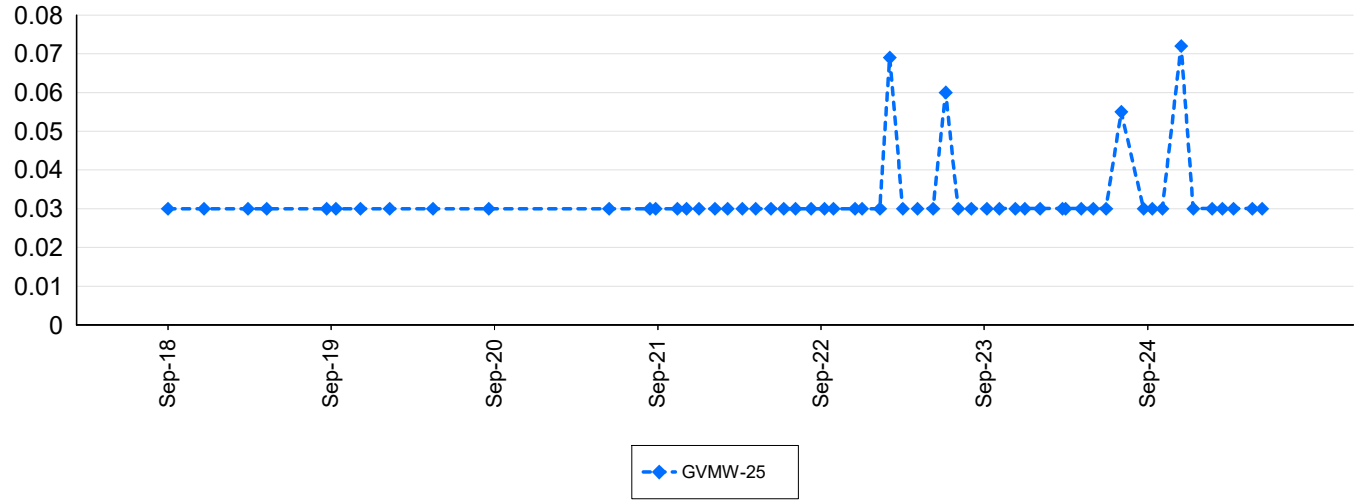
** Field Parameters (pH, Conductivity, Temperature, and ORP) must be analyzed within 15 minutes of sample collection.*

Attachment 4
GVMW-25 Historical Graphs

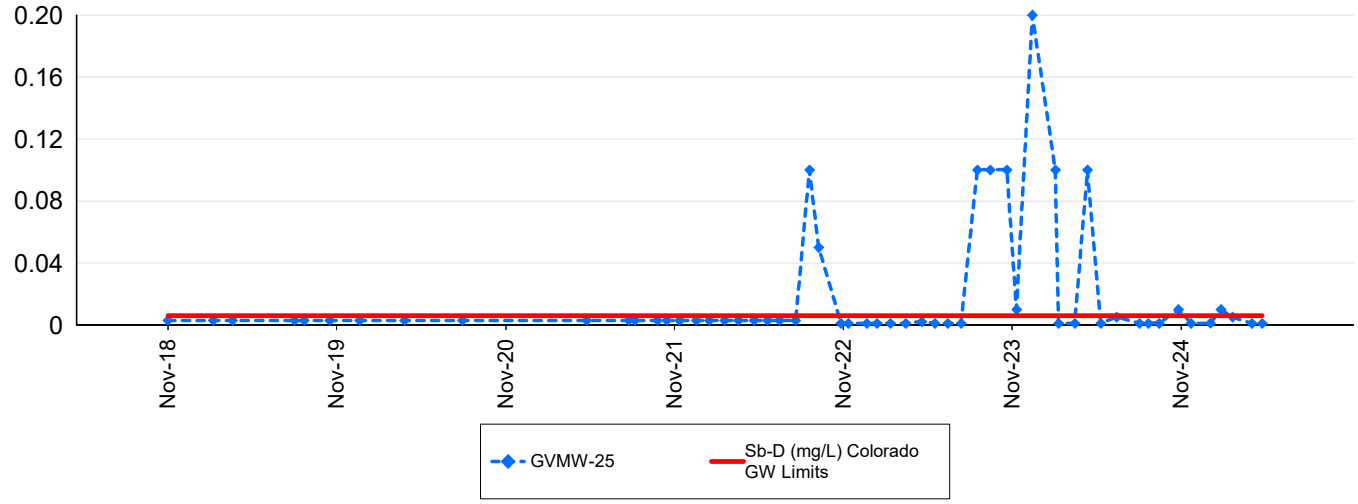
Grassy Valley: Aluminium - Dissolved (mg/L)

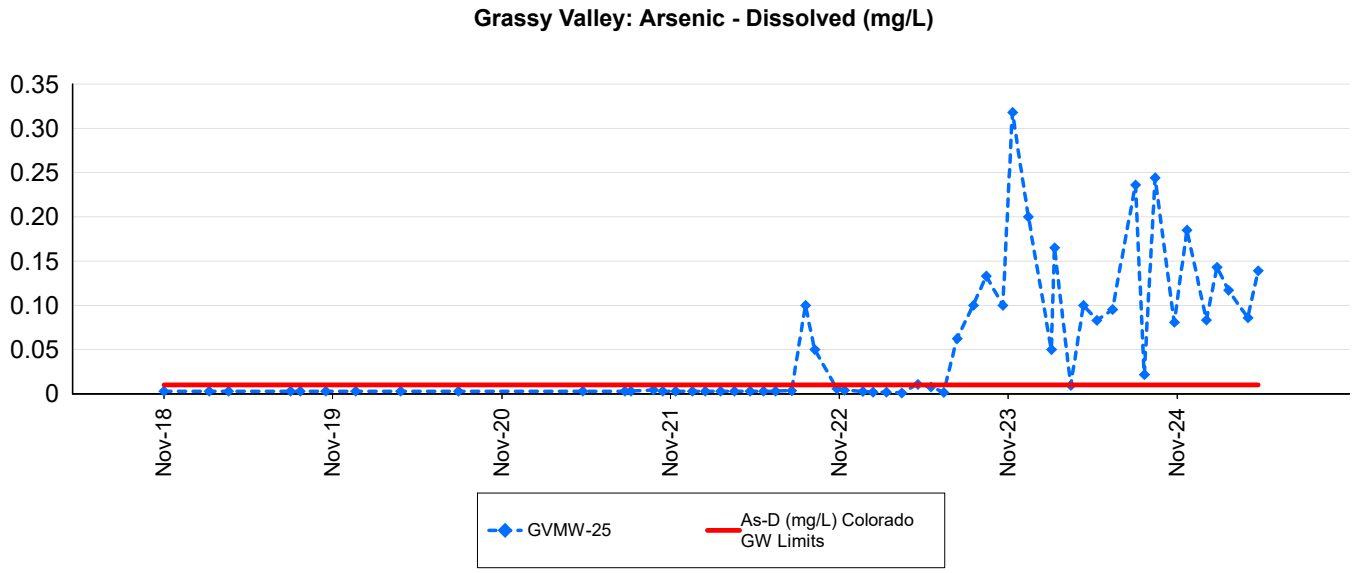


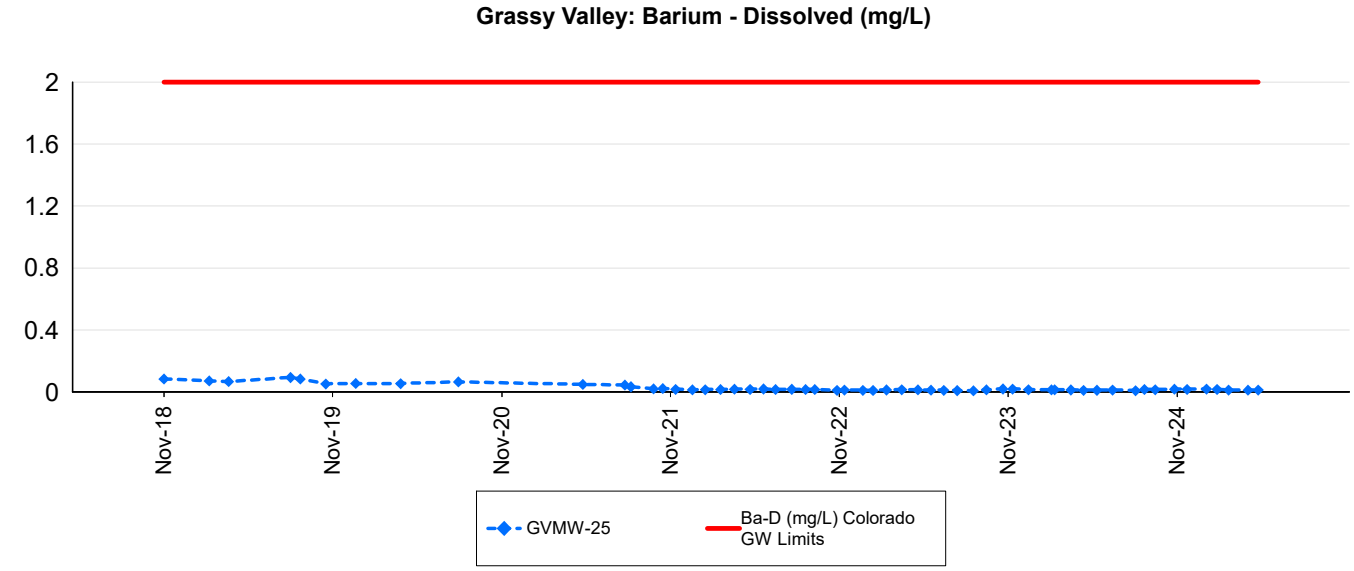
Grassy Valley: Ammonia (mg/L)

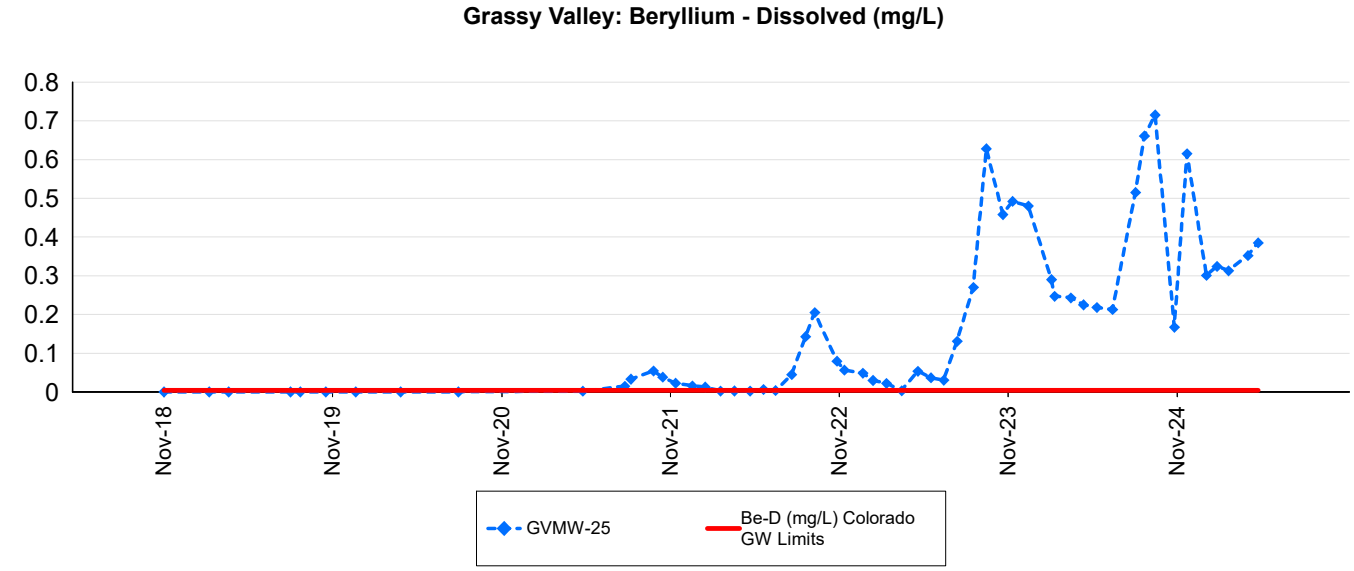


Grassy Valley: Antimony - Dissolved (mg/L)

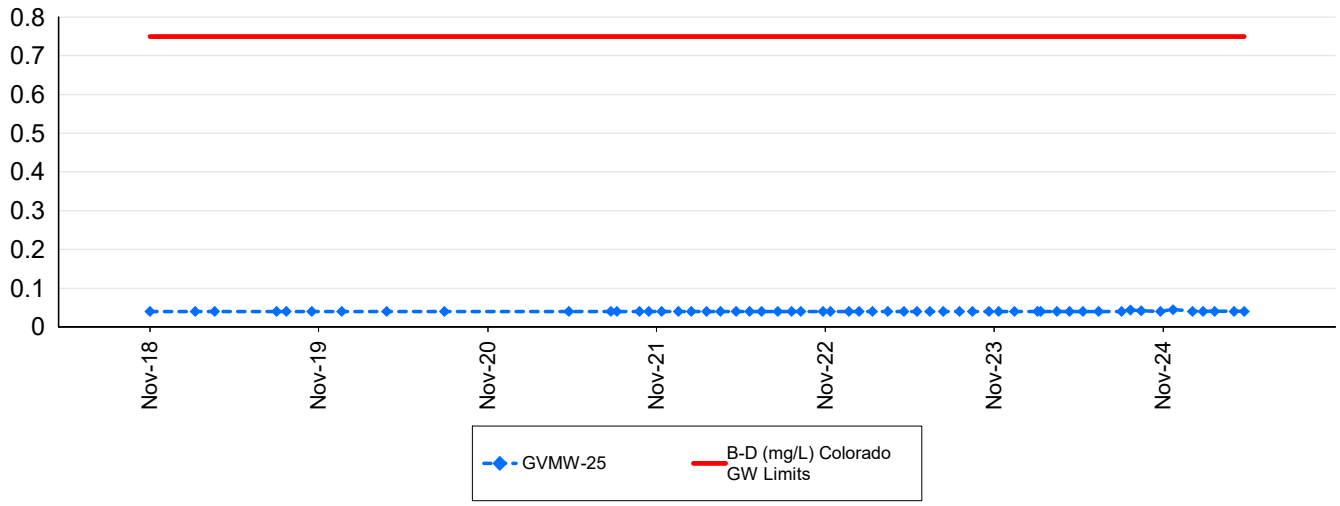




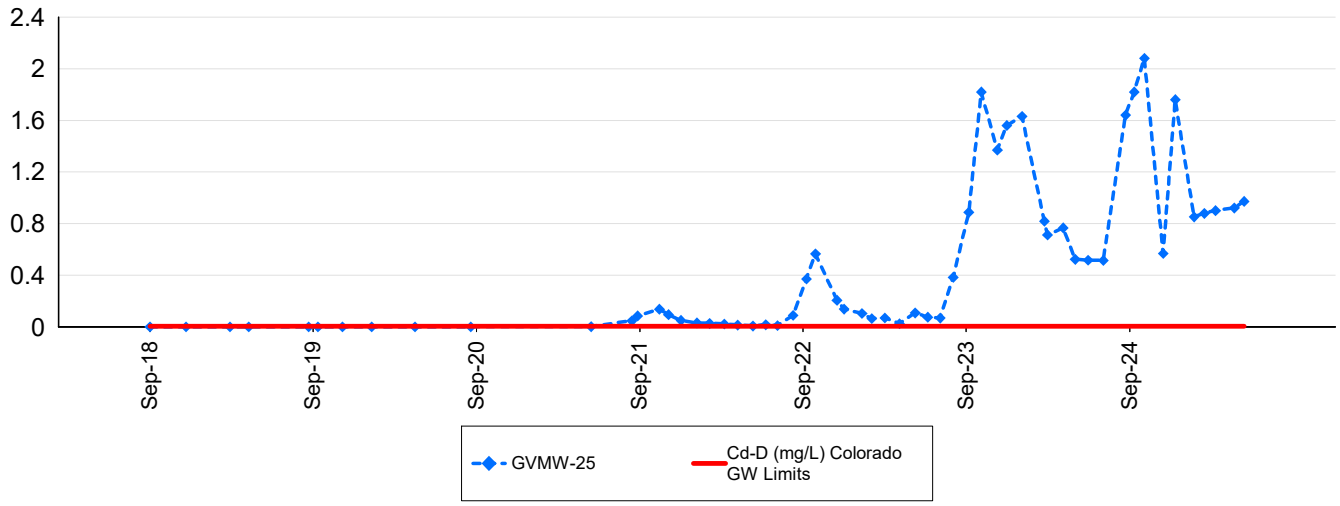




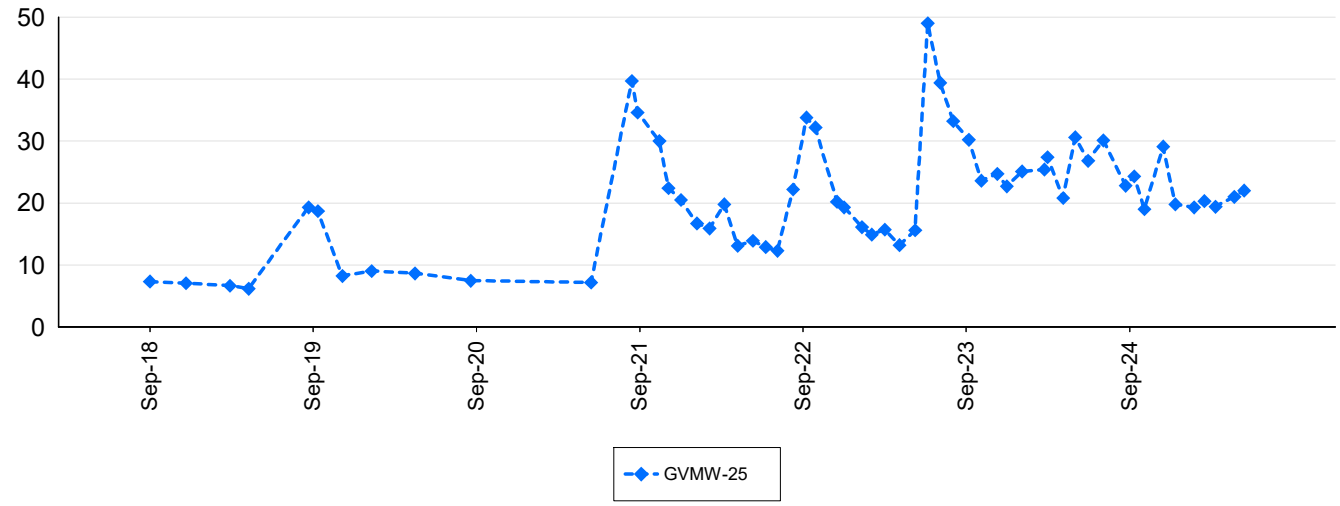
Grassy Valley: Boron - Dissolved (mg/L)



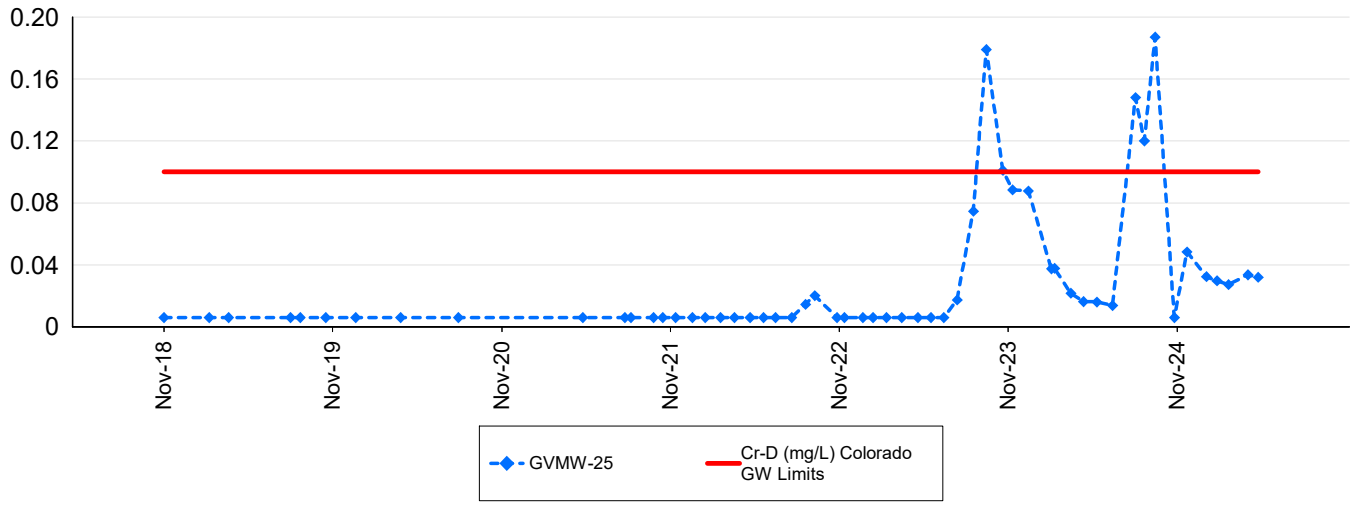
Grassy Valley: Cadmium - Dissolved (mg/L)



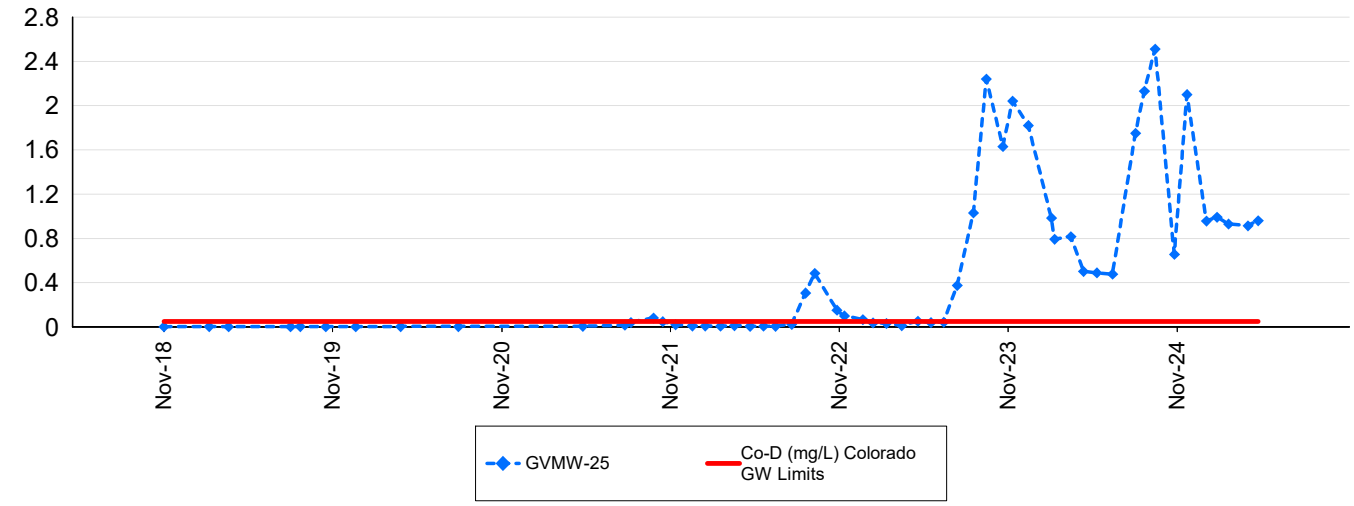
Grassy Valley: Chloride - Total (mg/L)



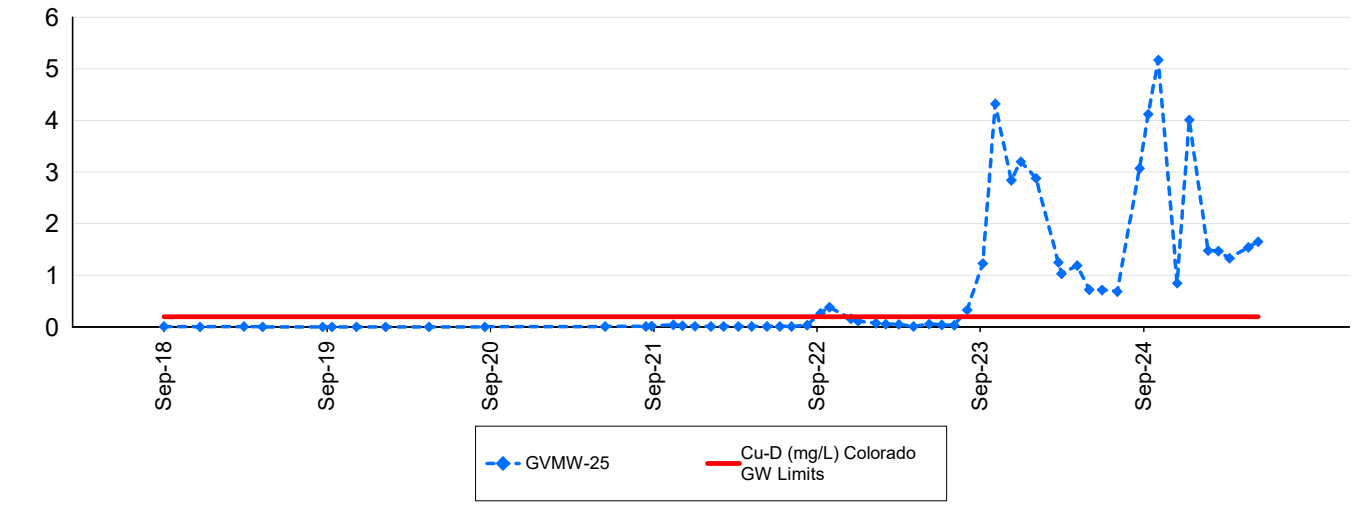
Grassy Valley: Chromium - Dissolved (mg/L)

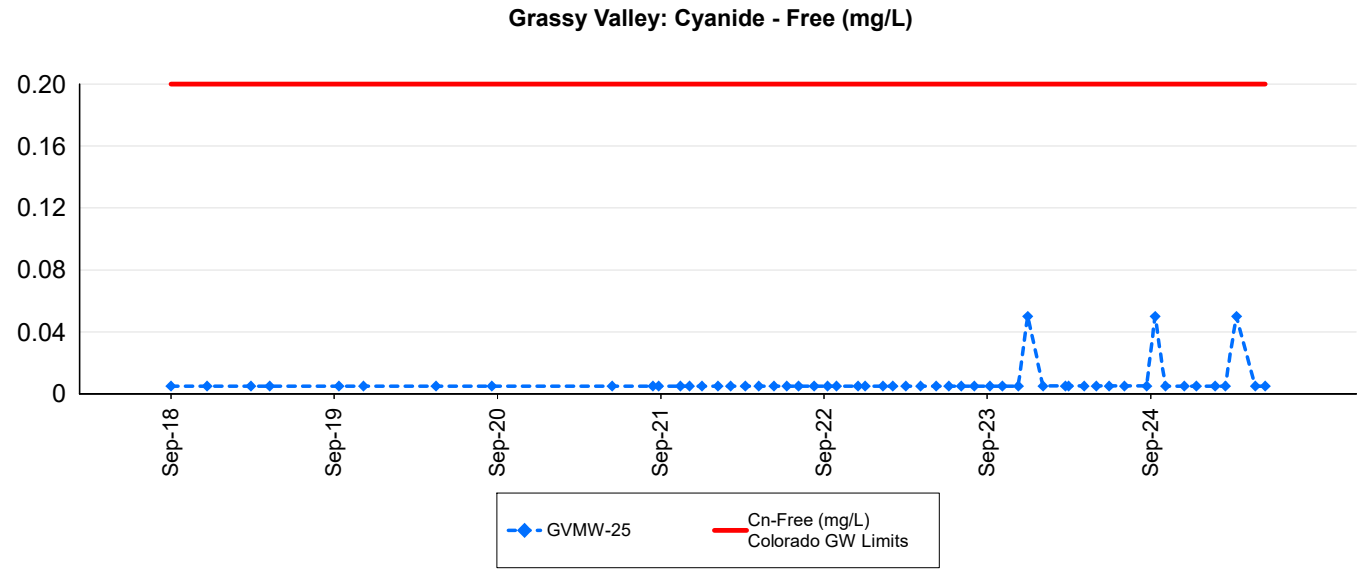


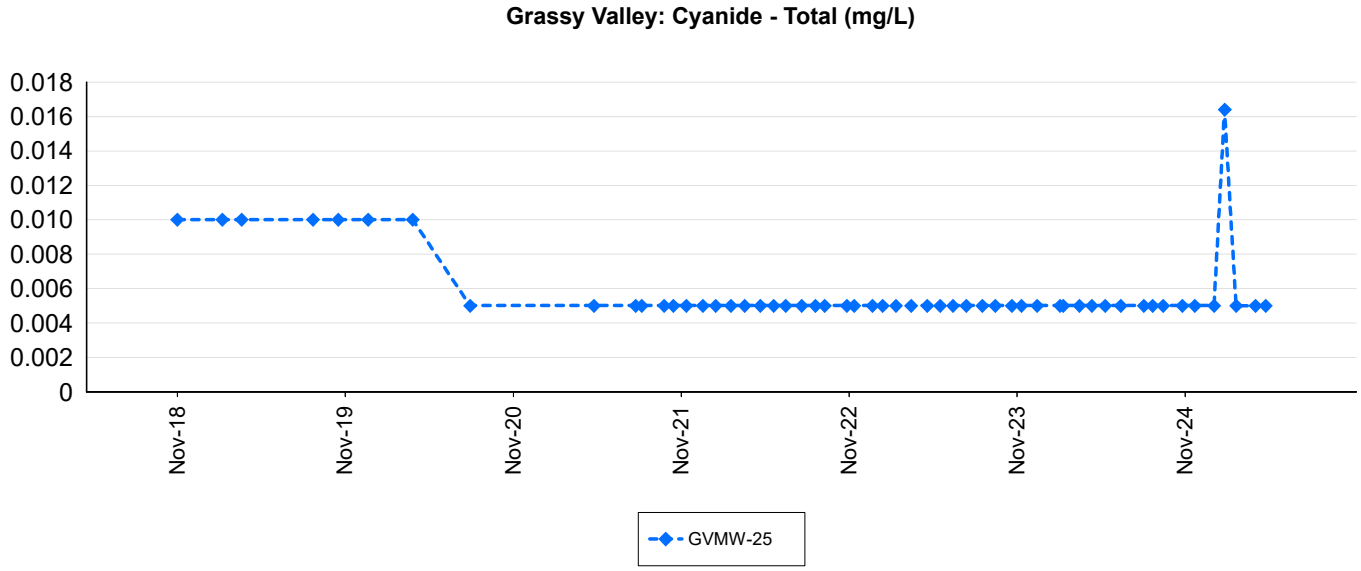
Grassy Valley: Cobalt - Dissolved (mg/L)

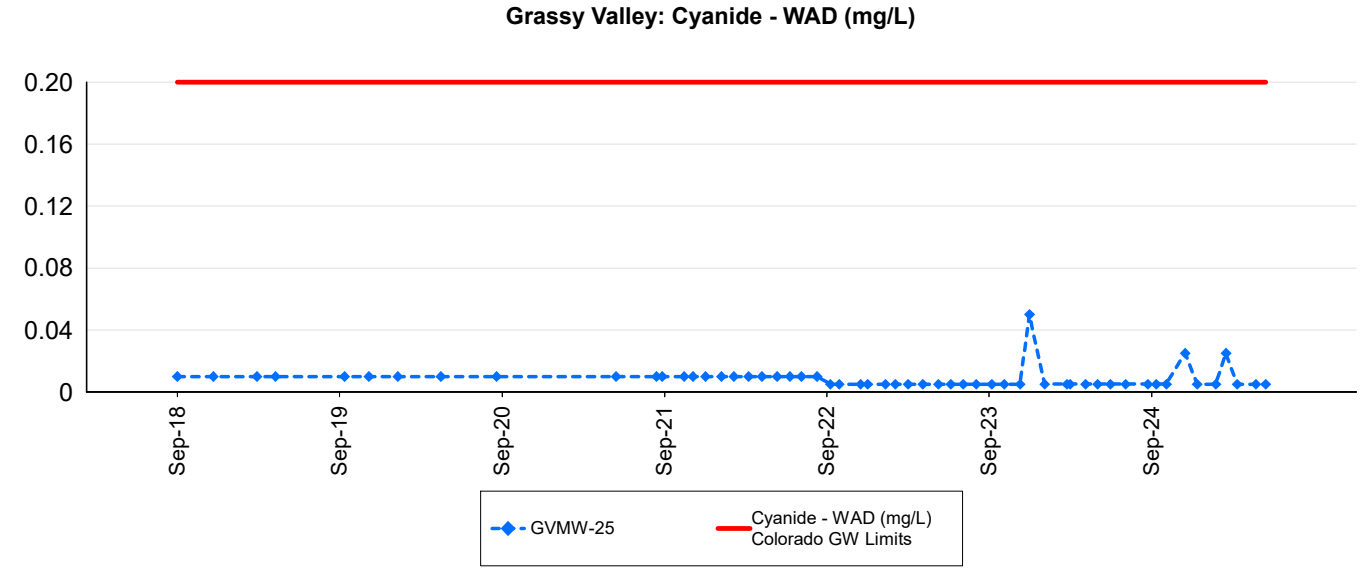


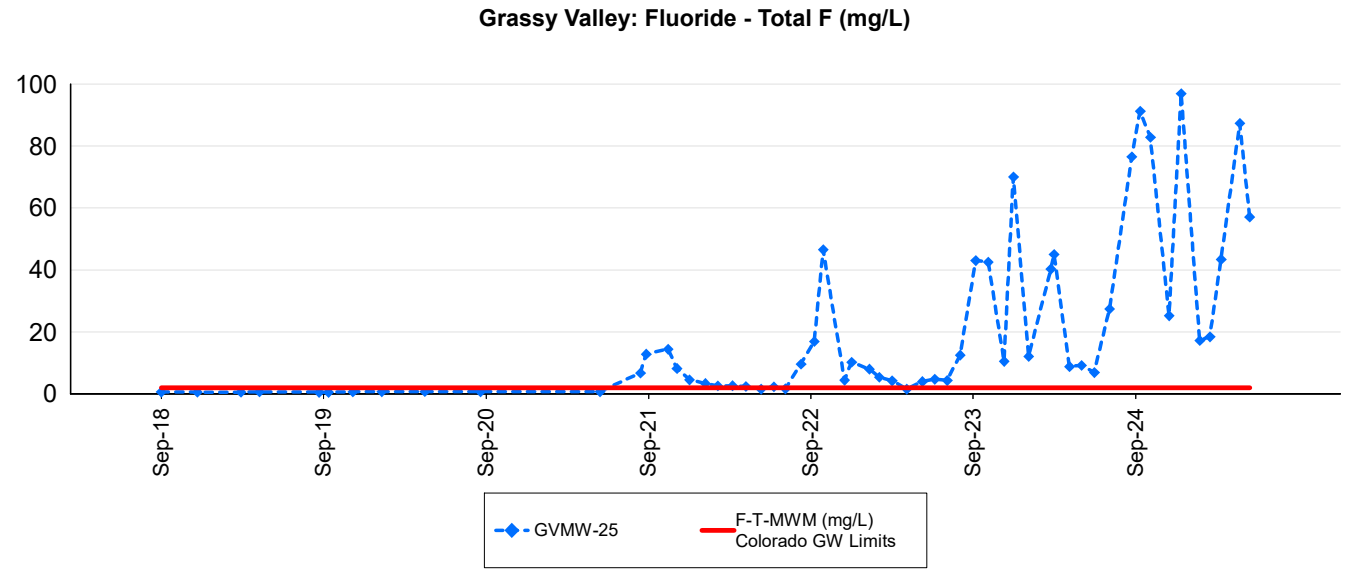
Grassy Valley: Copper - Dissolved (mg/L)

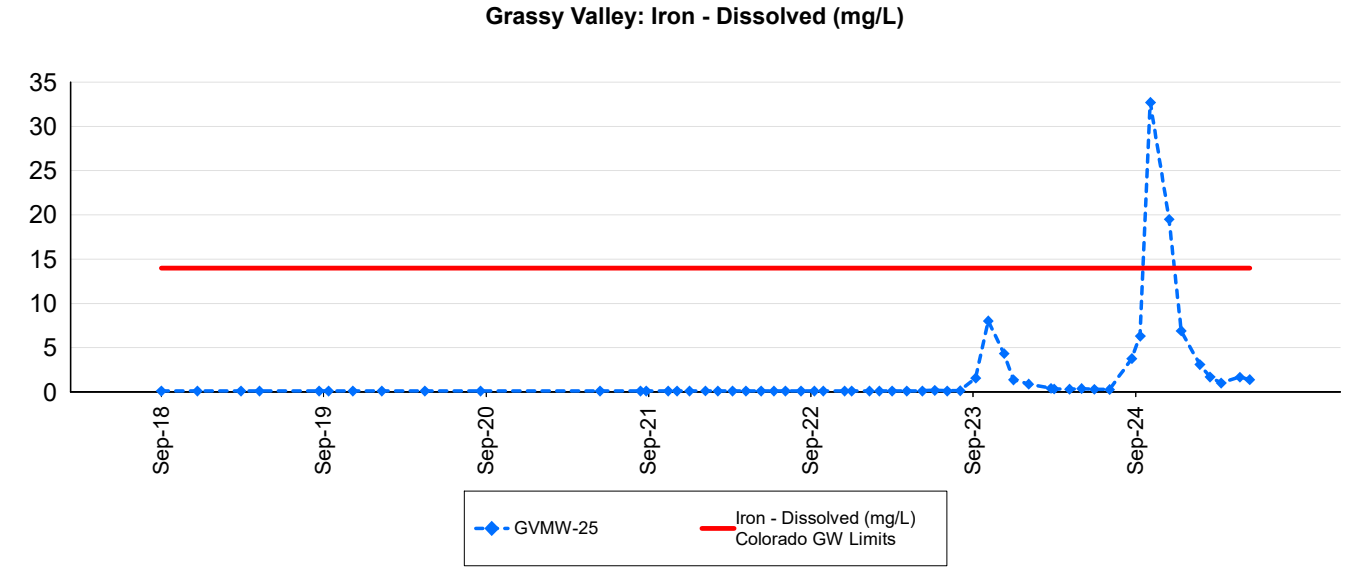


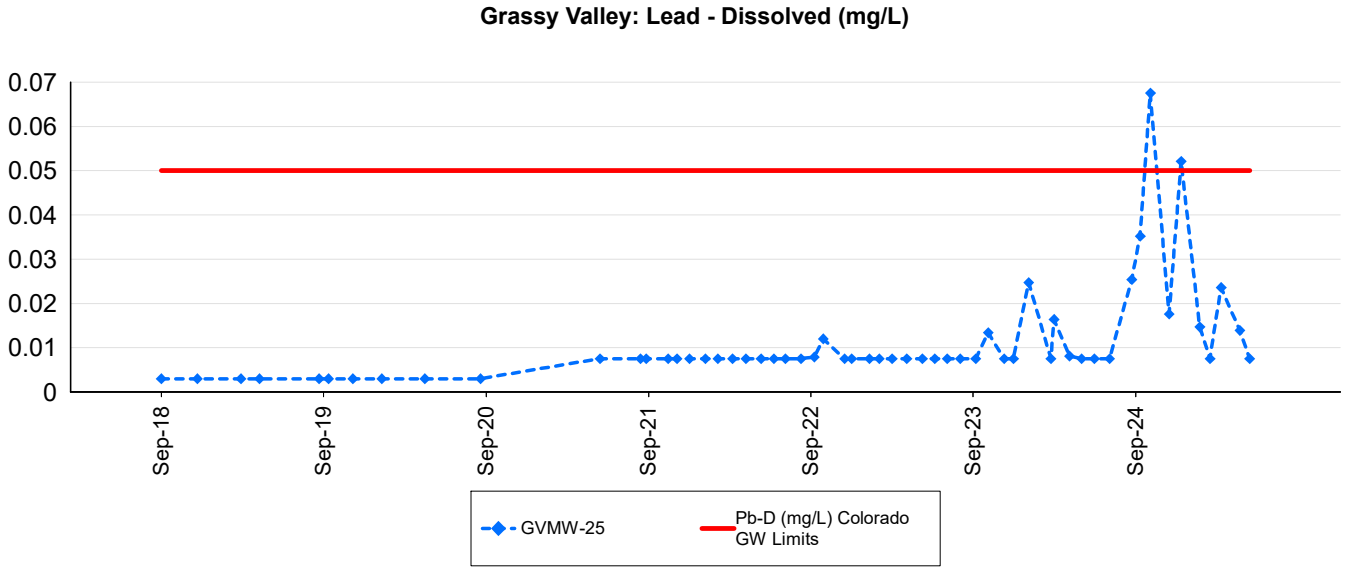




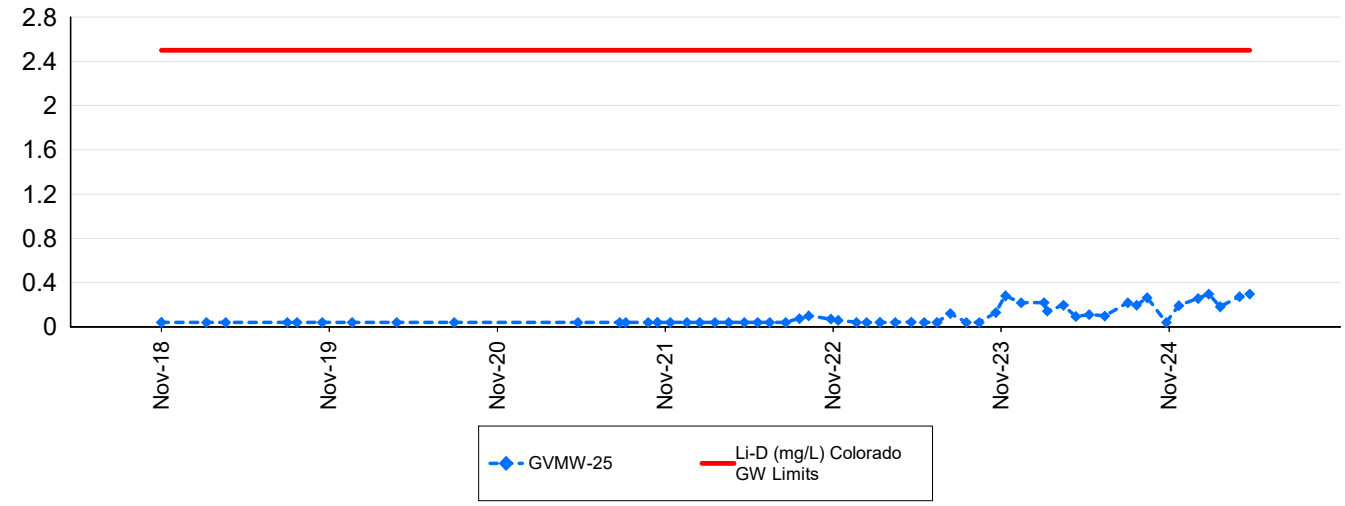




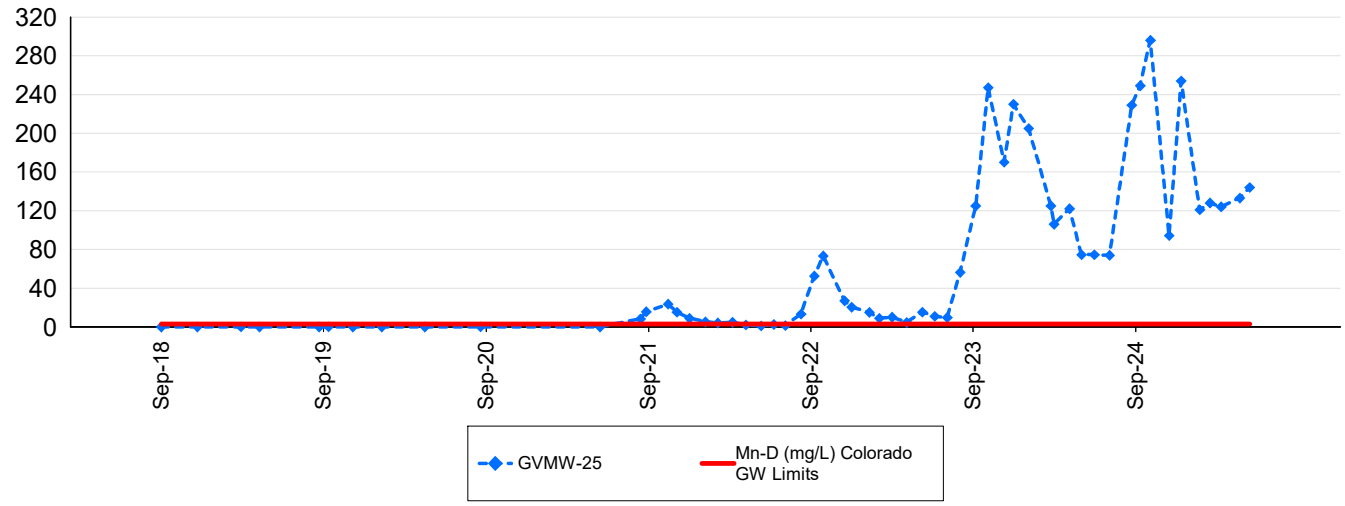




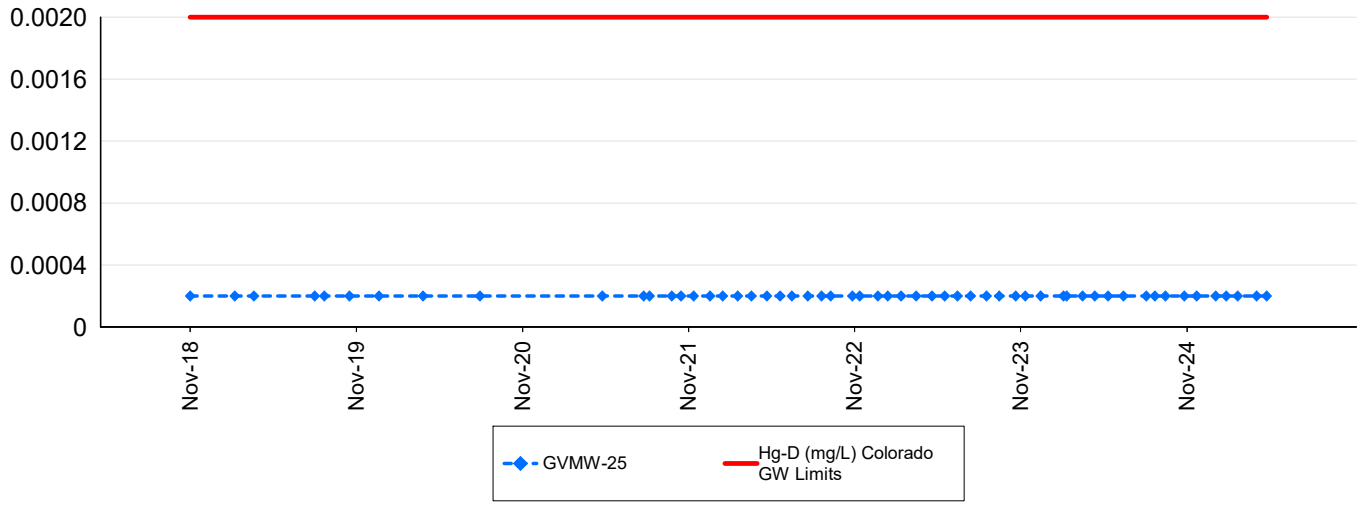
Grassy Valley: Lithium - Dissolved (mg/L)



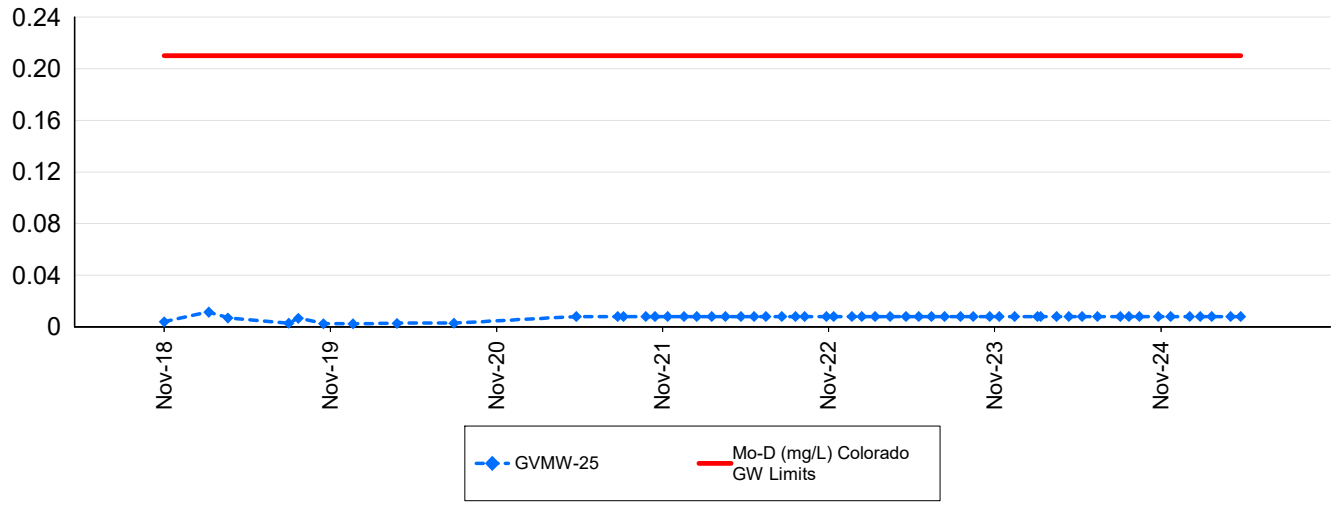
Grassy Valley: Manganese - Dissolved (mg/L)



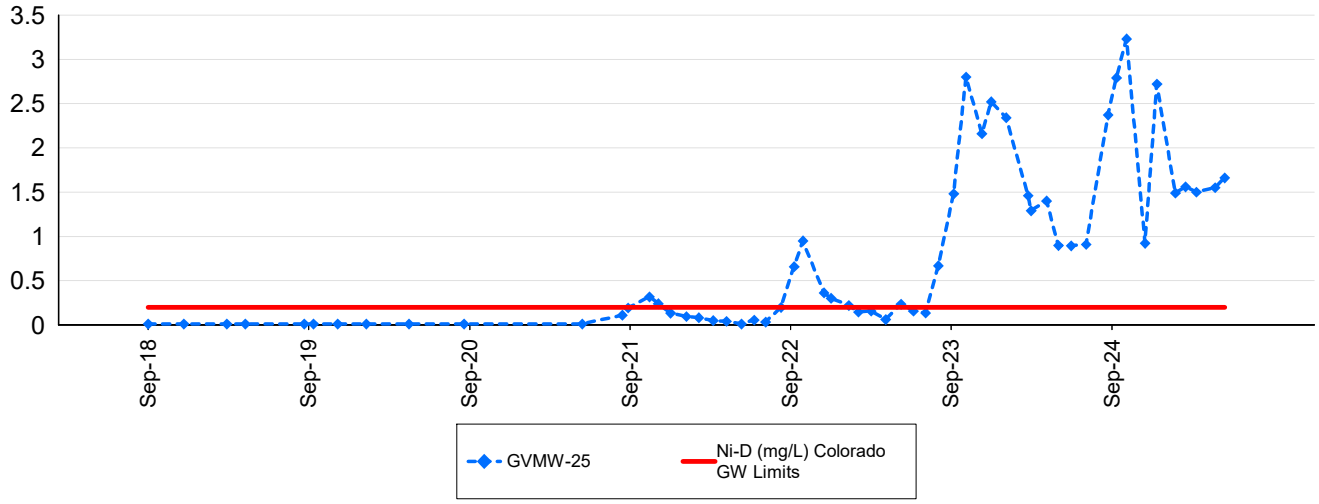
Grassy Valley: Mercury - Dissolved (mg/L)



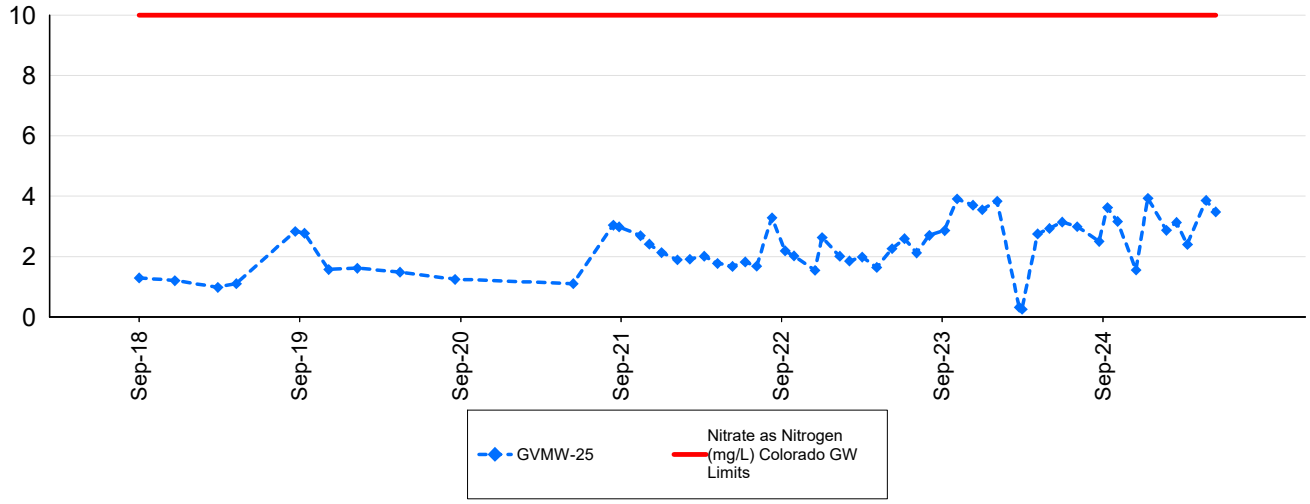
Grassy Valley: Molybdenum - Dissolved (mg/L)



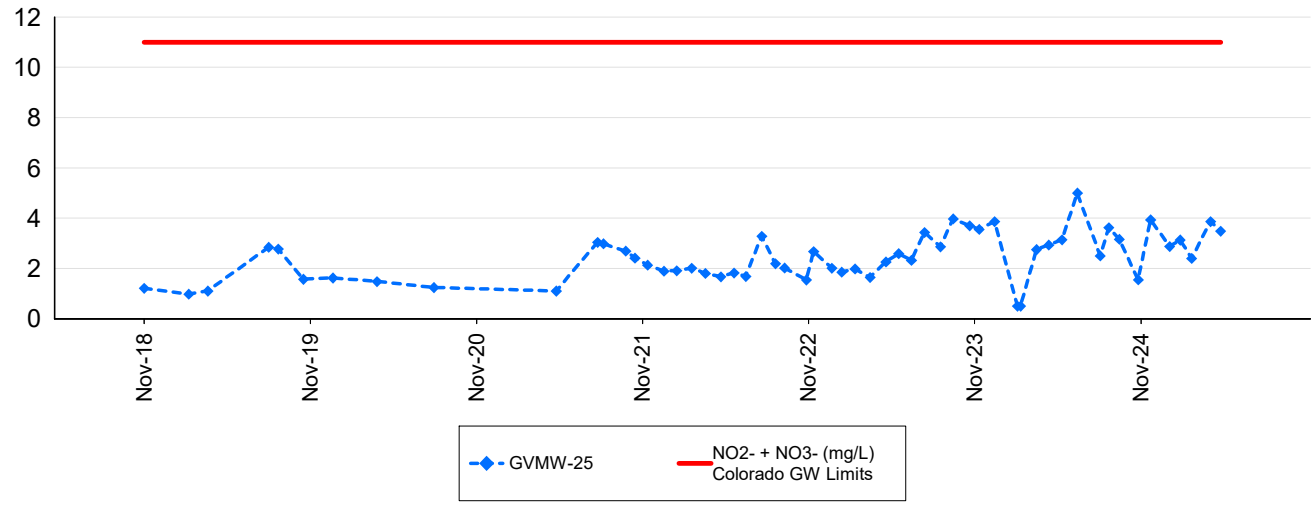
Grassy Valley: Nickel - Dissolved (mg/L)



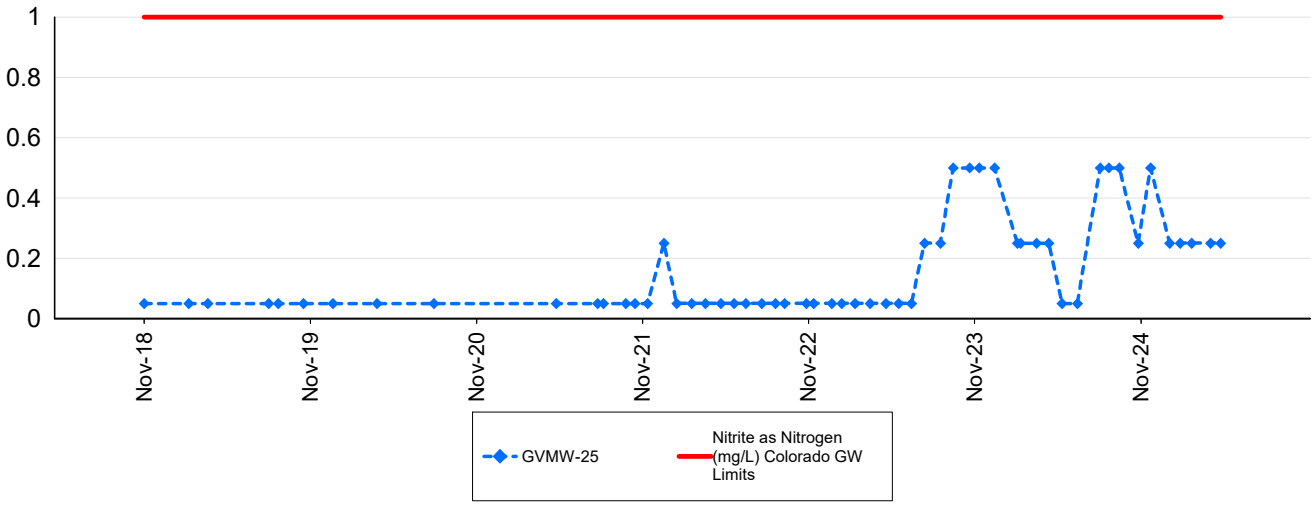
Grassy Valley: Nitrate as Nitrogen (mg/L)



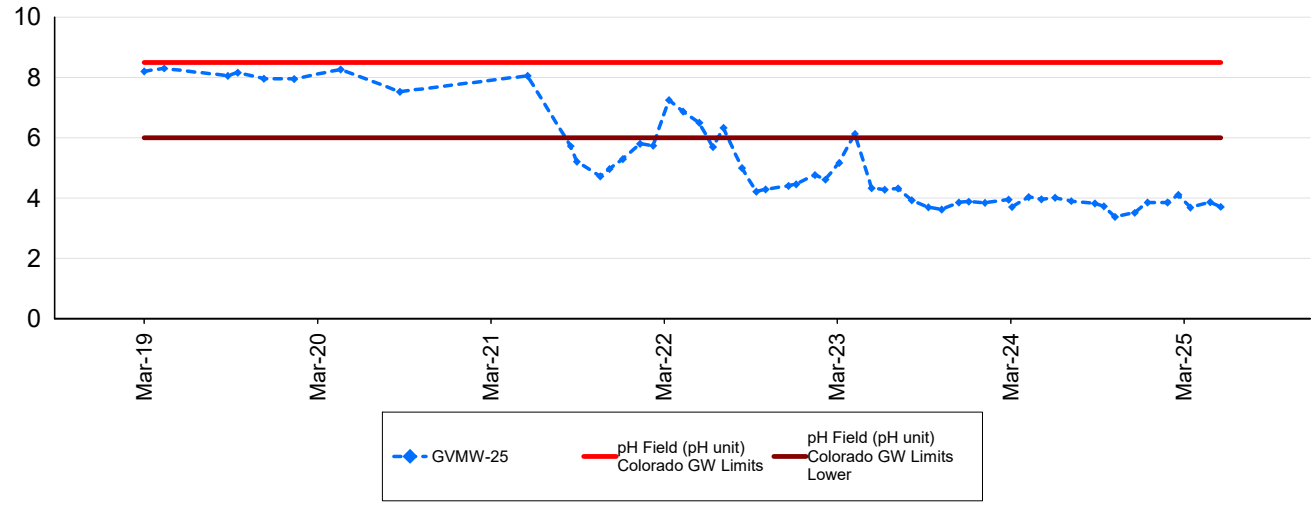
Grassy Valley: Nitrite + Nitrate as Nitrogen (mg/L)

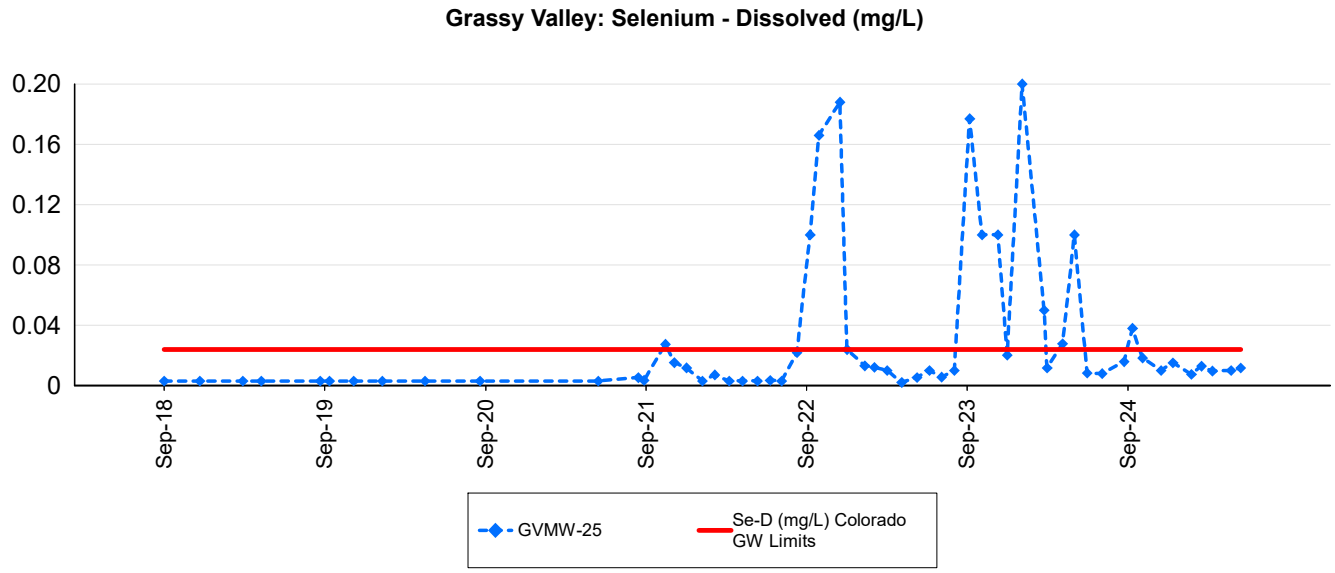


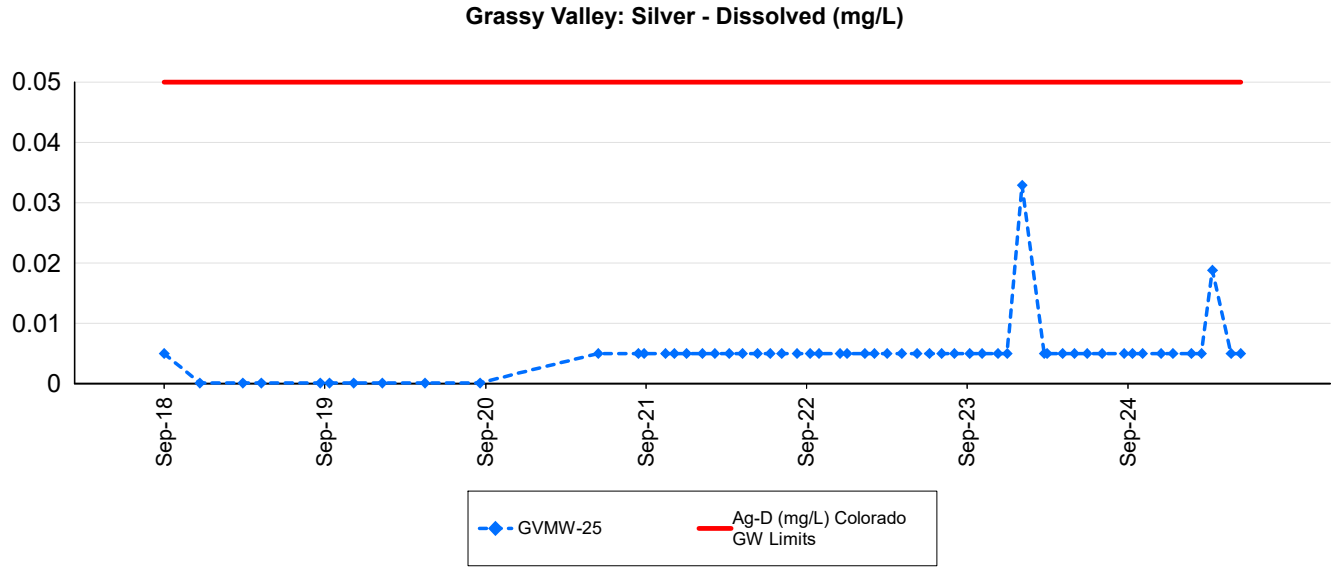
Grassy Valley: Nitrite as Nitrogen (mg/L)

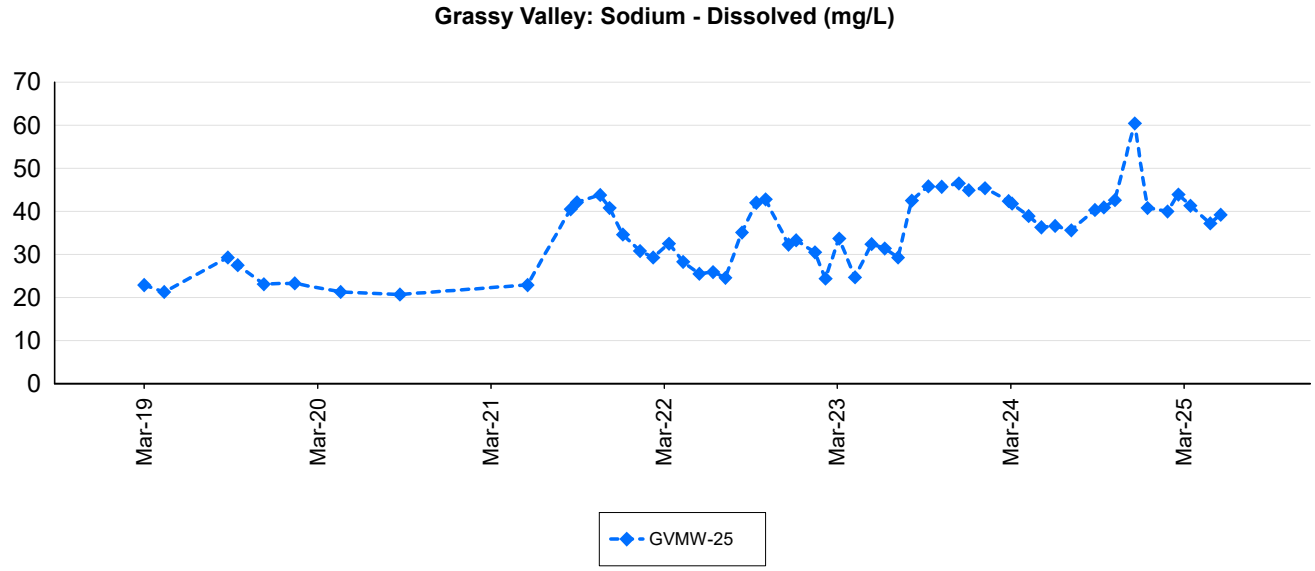


Grassy Valley: pH Field (pH unit)

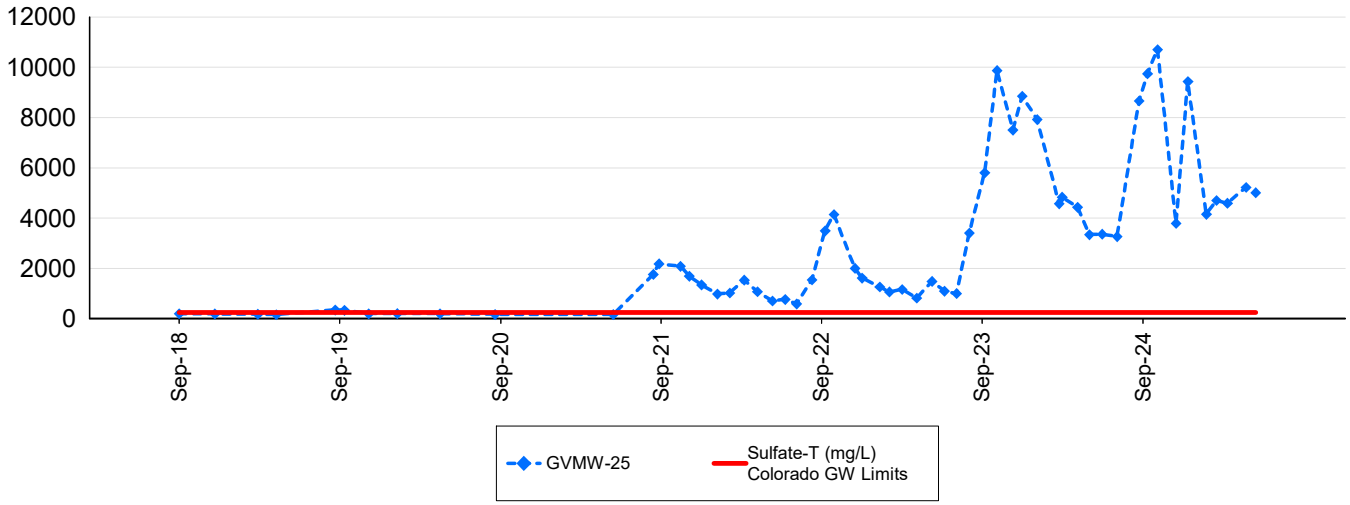




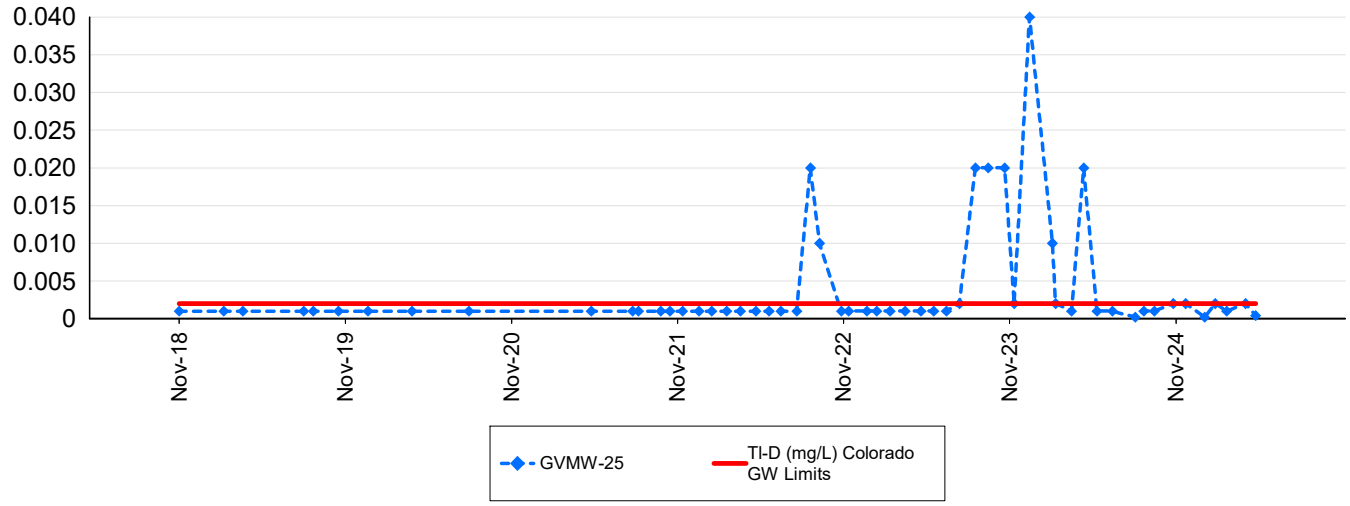




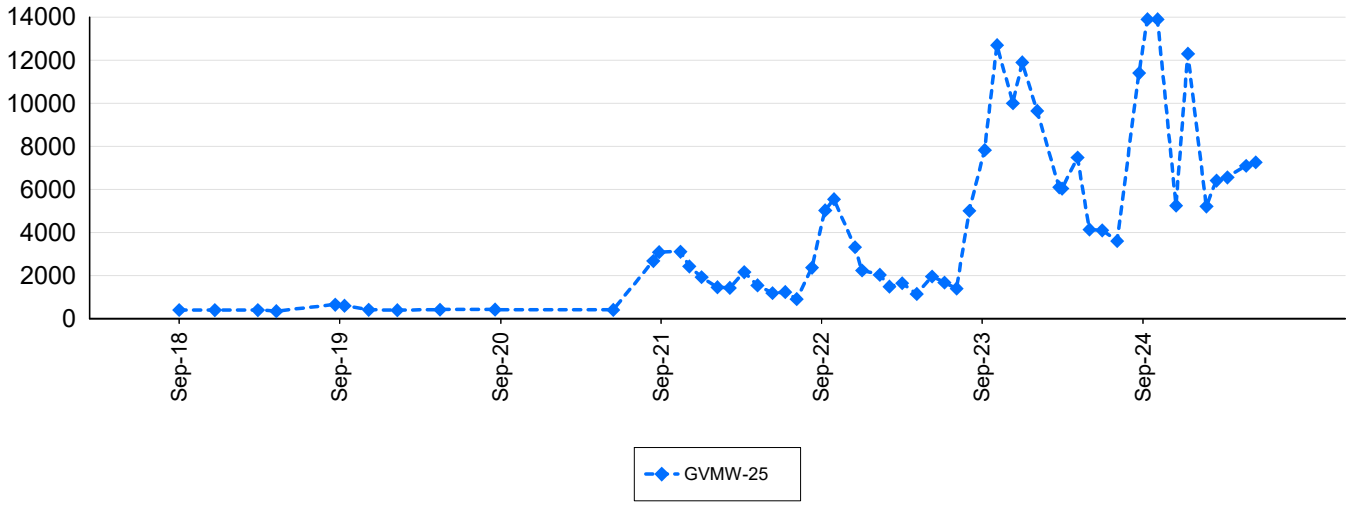
Grassy Valley: Sulfate - Total (mg/L)



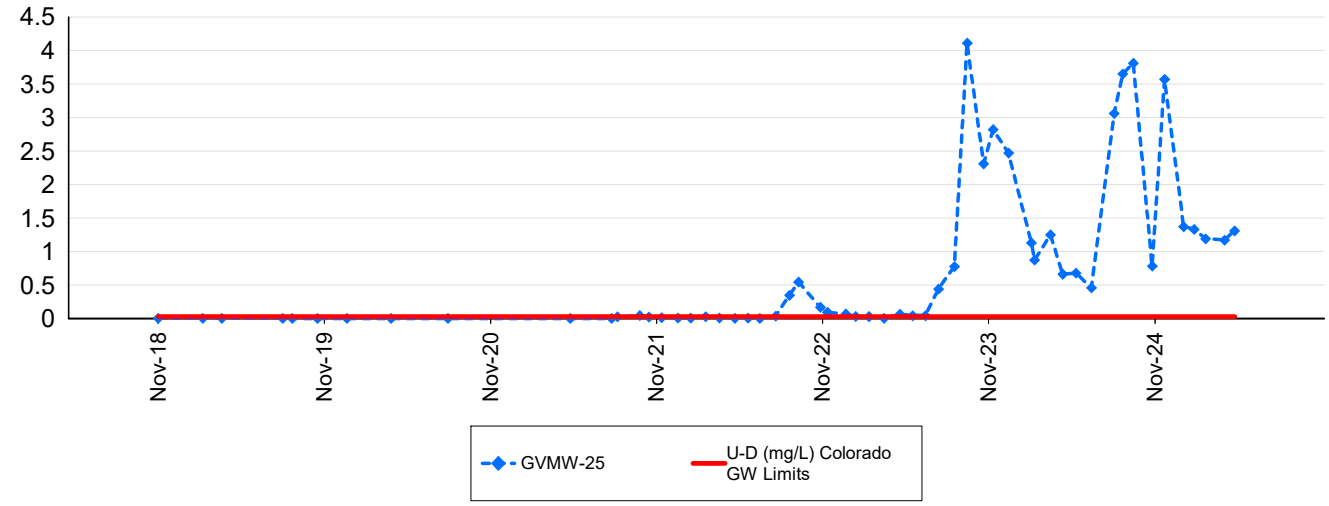
Grassy Valley: Thallium - Dissolved (mg/L)



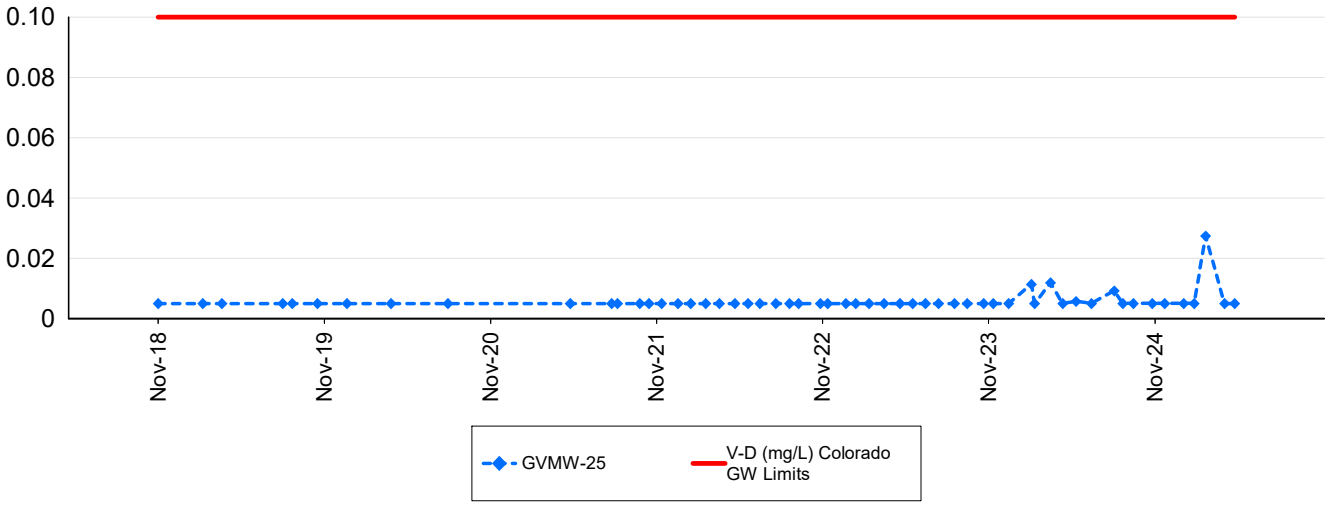
Grassy Valley: Total Dissolved Solids (mg/L)



Grassy Valley: Uranium - Dissolved (mg/L)



Grassy Valley: Vanadium - Dissolved (mg/L)



Grassy Valley: Zinc - Dissolved (mg/L)