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SENT VIA ELECTRONIC MAIL

October 31, 2024

Mr. Elliott Russell
Environmental Protection Specialist
Colorado Department of Natural Resources Division of Reclamation, Mining, and Safety Office of Mined Land Reclamation
1313 Sherman Street, Room 215
Denver, Colorado 80203

RE: Cresson Project Permit M-1980-244:
Ground Water Monitoring Data: 3rd Quarter 2024
Surface Water Monitoring Data: 3rd Quarter 2024

Dear Mr. Russell:

Cripple Creek & Victor Gold Mining Company ("CC&V") hereby provides the ground water & surface water monitoring report for the Cresson Project sampling locations for the 3rd quarter (July through September) 2024.

METHODOLOGY

In the 3rd quarter (Q3), CC&V monitored all accessible and applicable groundwater locations and collected all possible samples as outlined in Permit No. M-1980-244. Table 1 provides a summary of the status of each monitoring location (groundwater and surface water). Monitoring locations are displayed on Location Maps (Figures).

During the current monitoring period, CC&V was unable to collect water samples from the following monitoring locations:

- Poverty Gulch monitoring wells PGMW-2 and PGMW-4 were dry;
- Maize Gulch monitoring wells SGMW-5, SGMW-6A, SGMW-7A, SGMW-7B, and SGMW-8 were dry;
- Arequa Gulch monitoring well CRMW-3B was dry and CRMW-5A had insufficient water recharge to collect a sample and ESPMW-1 was not sampled due to equipment failure;
- Wilson Creek monitoring surface water location WCSW-01 had no observed flowing water during the quarter; and
- Vindicator Valley monitoring well VIN-2B was not sampled due to an equipment failure and surface water monitoring location T-2 had no observed flowing water during the quarter.

Groundwater Level Measurements

Prior to the collection of the groundwater samples, depth to groundwater was measured using a

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Geotech™ water level indicator. The water level indicator was decontaminated with Alconox™ soap and rinsed with de-ionized water prior to each measurement to prevent cross contamination.

Groundwater Sampling

CC&V utilized both dedicated pumps, deployable pumps, and disposable bailers to purge water and collect groundwater samples depending on the depth of the wells and/or locations. Samples were collected using either the low-flow, volumetric, or purge and return (low-yield) sampling methods described in the *Quality Assurance Project Plan (QAPP)* dated January 16, 2024.

Groundwater samples were collected by filling both preserved and unpreserved laboratory-supplied sample containers with the appropriate amount of water and were capped 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. The labels were attached to the appropriate sample bottle. Samples were sealed, packed on ice, and submitted to SVL Analytical Inc. in Kellogg, Idaho for analysis of parameters listed in Table 3.1 – Groundwater Monitoring Parameters of the QAPP. Proper chain-of custody (COC) was followed as described in Section 9.5 of the QAPP.

Surface Water Sampling

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

QA/QC Samples

CC&V collected nine quality assurance/quality control (QA/QC) samples in Q3 2024. Of the QA/QC samples, five duplicate samples were collected from monitoring well GVMW-8A, GVMW-26B, GVMW-25, CRMW-3C, and CRMW-5D. Three rinse blanks were collected this quarter and were sent with the samples to the analytical laboratory. One trip blank sample was also collected. QA/QC samples were collected in accordance with the QAPP.

RESULTS

Groundwater and Surface Water Analytical Results

Groundwater analytical results are compared to applicable standards in Table 2. Complete laboratory analytical reports from the 3rd quarter sampling event are included in Attachment 1 and field collected data is presented in the sampling logs as Attachment 2.

Surface water analytical results are compared to applicable standards in Attachment 3. Complete laboratory analytical reports from the 3rd quarter surface water samples are included under the Surface Water section of Attachment 1 and field collected data is presented in the sampling logs in Attachment 2.

QA/QC Sample Results

Results for the Quality Assurance/Quality Control (QA/QC) samples are included in the QA/QC section of Attachment 1. Relative percent difference (RPD) calculations completed for the duplicate monitoring well samples are included within the QA/QC section. All the RPD calculations were less than 20% except

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for two outliers (54.39% for Aluminum in the CRMW-5C on July 17, 2024, duplicate sample and 20.27% for Fluoride in the CRMW-3D on August 21, 2024, duplicate sample). This outlier is for a constituent of very low concentrations. RPD calculations are presented in Attachment 4.

DISCUSSION

Graphical representation of the trends in various analytes at the sampling locations are presented in Attachment 5.

Poverty Gulch

PGMW-3 analytical results were greater than the existing Numeric Protection Limits (NPLs) for aluminum, manganese, and pH, and the Table Value Standard (TVS) for sulfate. However, the data collected from PGMW-3 is consistent with historical observations. PGMW-5 is a new well and the water quality baseline for this well is still being established. The water quality results from monitoring well PGMW-5 were greater than the NPL's for dissolved aluminum, dissolved beryllium, dissolved cadmium, dissolved cobalt, dissolved copper, total fluoride, dissolved manganese, field pH (less than the lower limit), dissolved zinc, and the TVSs for dissolved beryllium, dissolved cobalt, dissolved nickel, and total sulfate. However, water quality at PGMW-5 is also consistent with previous data over the monitoring period.

Maize Gulch

Within the Maize Gulch drainage, samples collected from monitoring well SGMW-6B were greater than TVS for concentrations of beryllium, fluoride, nickel, sulfate and manganese and pH as compared to the site-wide NPL's. However, data from this monitoring period is consistent with previously recorded concentrations.

Arequa Gulch

Within the Arequa Gulch drainage, samples collected from CRMW-3A, CRMW-3C, CRMW-5B, CRMW-5C, and CRMW-5D had concentrations greater than the TVSs and site-wide NPLs for fluoride. Monitoring wells CRMW-3A and CRMW-3C had concentrations greater than the TVSs for sulfate. These results recorded from monitoring wells within Arequa Gulch are consistent with historic observations.

The analytical results from the surface water sample collected from AG-2.0 are below the Regulation 32 standards for all constituents except for total iron which is consistent with historical observations.

Wilson Creek

The analytical results from monitoring well WCMW-6 within the Wilson Creek drainage was greater than the TVSs and site-wide NPLs for fluoride. Elevated fluoride concentrations at WCMW-6 are consistent with historical data and represent a seasonal fluctuation in fluoride within the drainage.

Vindicator Valley

The third quarter Vindicator Valley concentrations for the VIN-2A sample are consistent with previously reported concentrations. Analytical results from samples collected from VIN-2A were greater than the TVS for sulfate but is below with all other applicable well-specific NPL's and the TVSs. Sulfate concentrations for VIN-2A are also below the established NPL value of 800 for VIN-2B.

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Grassy Valley

Analytical results from monitoring well GVMW-8B and GVMW-22A were higher than TVSs for fluoride and analytical results from monitoring well GVMW-25 was higher than the applicable standards for aluminum, arsenic, beryllium, cadmium, cobalt, copper, fluoride, manganese, nickel, pH, sulfate, uranium, and zinc. The elevated concentrations were reported to the Division of Reclamation, Mining, and Safety (DRMS) in the monthly grassy valley reports. The concentrations at GVMW-8B and GVMW-22A are consistent with previously reported results. Concentrations at GVMW-25 have generally increased compared to Q2 2024 though Q3 2024. Peak concentrations have been observed historically in August and September and are likely associated with increased precipitation from monsoon season. Concentrations tend to decrease throughout the winter, spring and summer months. None of the aforementioned monitoring locations are points of compliance. There have been no exceedances observed at the new points of compliance wells GVMW-26A or GVMW-26B during the quarter.

Surface water samples were collected from GV-06 throughout the quarter. The GV-06 monitoring location was higher than Regulation 32 standards for phosphorus and total iron in July, total and dissolved iron in August, and total iron in September. Refer to Attachment 3 for a detailed comparison for analytes and standards.

Reported Analytical Results

Analytical results reported on August 8, 2024, September 3, 2024, October 7, 2024, October 10, 2024 and October 28, 2024 to DRMS for third quarter water quality samples are summarized below.

CC&V collected third quarter 2024 groundwater compliance samples from CRMW-5B, CRMW-5C, CRMW-5D, and SGMW-6B on July 17, 2024, and samples from WCMW-6 on July 18, 2024.

Upon review of the received analytical reports, CC&V determined that fluoride concentrations at wells CRMW-5B, CRMW-5C, CRMW-5D, and WCMW-6 were greater than the TVSs and the previously set Numeric Protection Limits (Previous NPLs).

Upon review of the received analytical reports, CC&V determined dissolved beryllium, total fluoride, dissolved manganese, pH, and total sulfate concentrations at well SGMW-6B were greater or outside the range of the TVSs and the Previous NPLs.

Location	Sample Date	Parameter	Value (mg/L)	Previous NPL (mg/L)	Table Value Standard (mg/L)
CRMW-5B	7/17/2024	Fluoride - Total	3.45	2	2
CRMW-5C	7/17/2024	Fluoride - Total	3.40	2	2
CRMW-5D	7/17/2024	Fluoride - Total	3.70	2	2
SGMW-6B	7/17/2024	Fluoride - Total	9.14	2	2
SGMW-6B	7/17/2024	Beryllium - Dissolved	0.0988		0.004
SGMW-6B	7/17/2024	Manganese - dissolved	9.00	3	0.05
SGMW-6B	7/17/2024	Sulfate - Total	1,600		250
SGMW-6B	7/17/2024	pH	5.83	6.0-8.5	6.5-8.5
WCMW-6	7/18/2024	Fluoride - Total	2.02	2	2

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CC&V collected a third quarter 2024 groundwater compliance sample from VIN-2A on August 8, 2024

Upon review of the received analytical reports, CC&V determined that total sulfate and dissolved zinc concentrations were greater than the TVSs.

Location	Sample Date	Parameter	Value (mg/L)	Previous NPL (mg/L)	Table Value Standard (mg/L)
VIN-2A	8/8/2024	Sulfate - Total	663		250
VIN-2A	8/8/2024	Zinc - dissolved	2.30	2	2

CC&V collected third quarter 2024 groundwater compliance samples from monitoring well PGMW-5 on September 17, 2024.

Upon review of received analytical reports, CC&V determined that aluminum, beryllium, cadmium, cobalt, copper, fluoride, manganese, nickel, pH, sulfate and zinc concentrations were greater than or outside the range of the TVSs and the Previous NPLs. The third quarter data from PGMW-5 remains consistent with previously reported data.

Location	Sample Date	Parameter	Value (mg/L)	NPL (mg/L)	Table Value Standard (mg/L)
PGMW-5	9/17/2024	Aluminum	66.6	7	5
PGMW-5	9/17/2024	Cadmium	0.0418	0.005	0.005
PGMW-5	9/17/2024	Copper	1.39	0.20	0.20
PGMW-5	9/17/2024	Fluoride	9.42	2.00	2.00
PGMW-5	9/17/2024	Manganese	44.1	3	0.05
PGMW-5	9/17/2024	Nickel	0.341	0.20	0.10
PGMW-5	9/17/2024	pH	3.80	6.00	6.50
PGMW-5	9/17/2024	Zinc	5.64	2.00	2.00
PGMW-5	9/17/2024	Beryllium	0.0101	-	0.004
PGMW-5	9/17/2024	Cobalt	0.189	-	0.05
PGMW-5	9/17/2024	Sulfate	885	-	250

CC&V collected third quarter 2024 groundwater compliance samples from monitoring well PGMW-3 on September 18, 2024.

Upon review of received analytical reports, CC&V determined that aluminum, manganese, pH, and sulfate were greater than or outside the range of the TVSs and the Previous NPLs. The third quarter data from PGMW-3 remains consistent with previously reported data.

Location	Sample Date	Parameter	Value (mg/L)	Previous NPL (mg/L)	Table Value Standard (mg/L)
PGMW-3	9/18/2024	Aluminum	12.2	7	5

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PGMW-3	9/18/2024	Manganese	3.87	3.0	0.05
PGMW-3	9/18/2024	pH	4.12	6.0	6.5
PGMW-3	9/18/2024	Sulfate	609	--	250

CC&V collected third quarter 2024 groundwater compliance samples from monitoring wells CRMW-3A and CRMW-3C on August 21, 2024. Upon review of received analytical reports, CC&V determined that sulfate and fluoride were greater than the Previous NPLs or TVSs. The third quarter data from CRMW-3A and CRMW-3C remains consistent with previously reported data.

Location	Sample Date	Parameter	Value (mg/L)	Previous NPL (mg/L)	Table Value Standard (mg/L)
CRMW-3A	8/21/2024	Fluoride	3.25	2	2
CRMW-3A	8/21/2024	Sulfate	845		250
CRMW-3C	8/21/2024	Fluoride	3.26	2	2
CRMW-3C	8/21/2024	Sulfate	696		250

Should you require additional information please do not hesitate to contact Josh Adams at 719-323-0438 or Joshua.Adams@Newmont.com or myself at 719-689-4048 or Katie.Blake@Newmont.com

Sincerely,

p.p. DocuSigned by:
Antonio Matarrese
FD42D9E12B1147D...

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

EC: P. Lennberg
M. Cunningham
Z. Trujillo
K. Blake
J. Gonzalez
J. Adams

File: "C:\Users\19012214\Newmont USA Limited\CC&V – S&ER Environmental - Environmental Compliance\Water\DRMS\Quarterly\Q3- 2024|Final "

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Attachments:

Figures: Location Maps

Table 1: Monitoring Location Summary
Table 2: 2024 2nd Quarter Groundwater Analytical Results

Attachment 1: Laboratory Analytical Reports
Attachment 2: Sampling Logs
Attachment 3: Surface Water Calculations
Attachment 4: RPD Calculations
Attachment 5: Graphs

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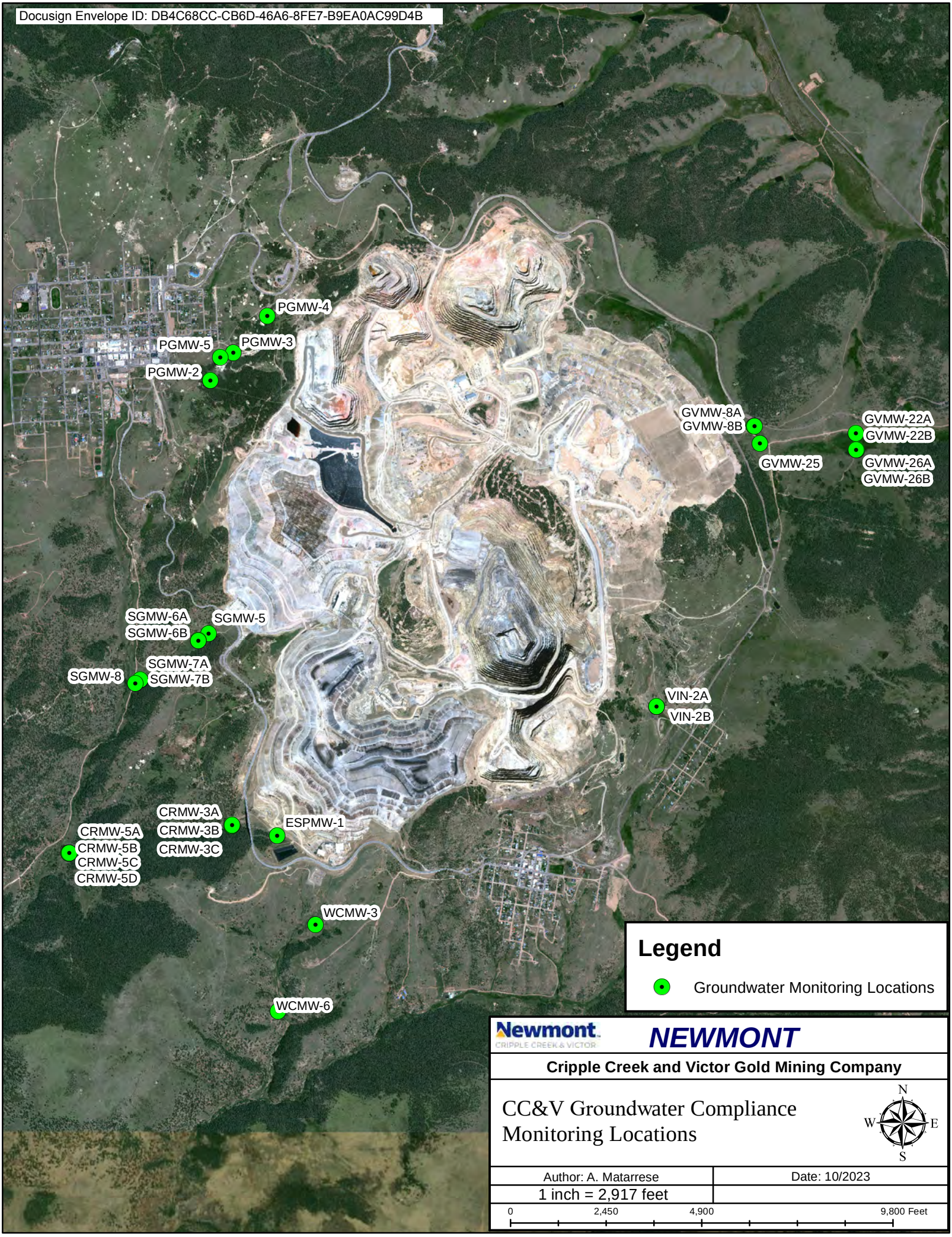
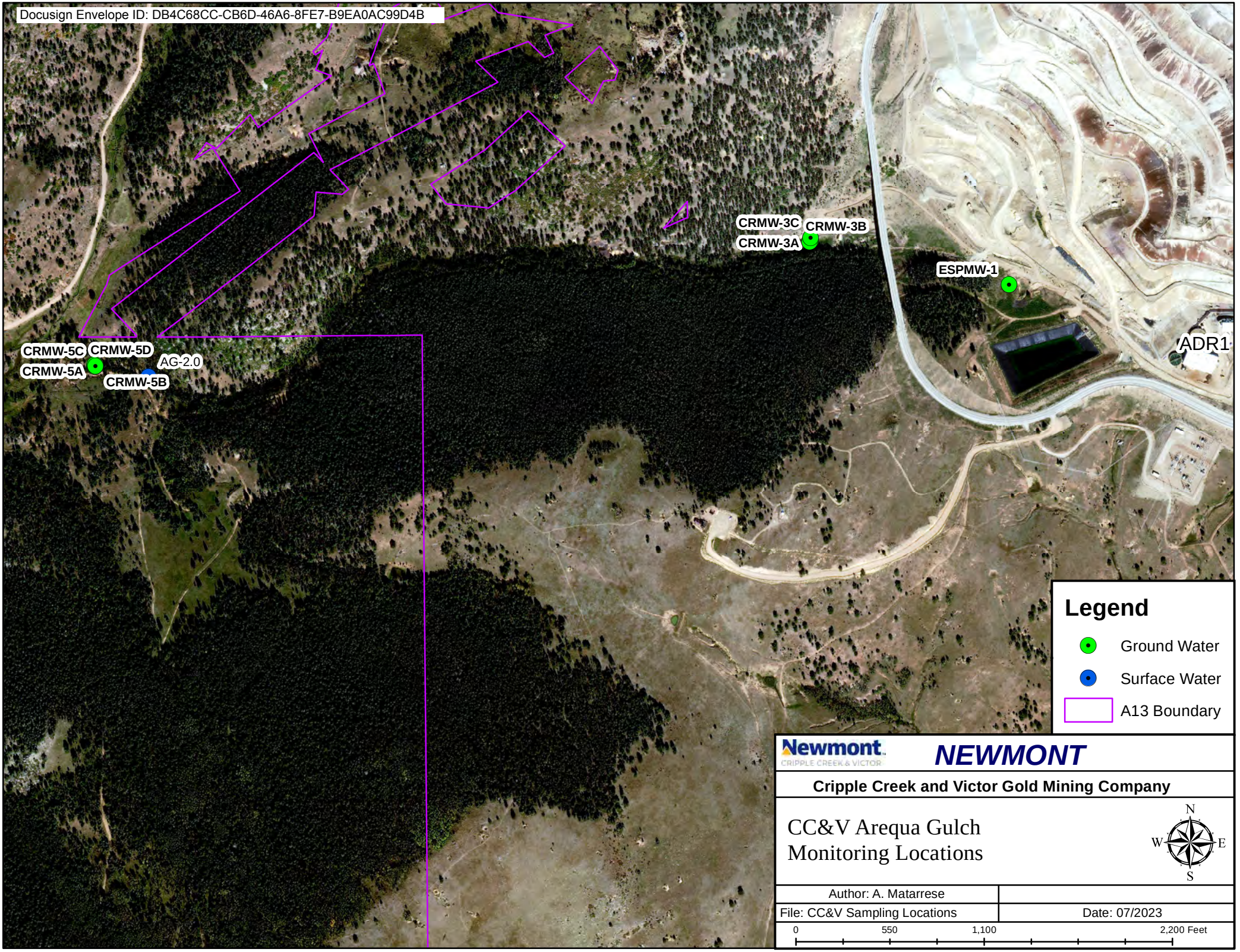
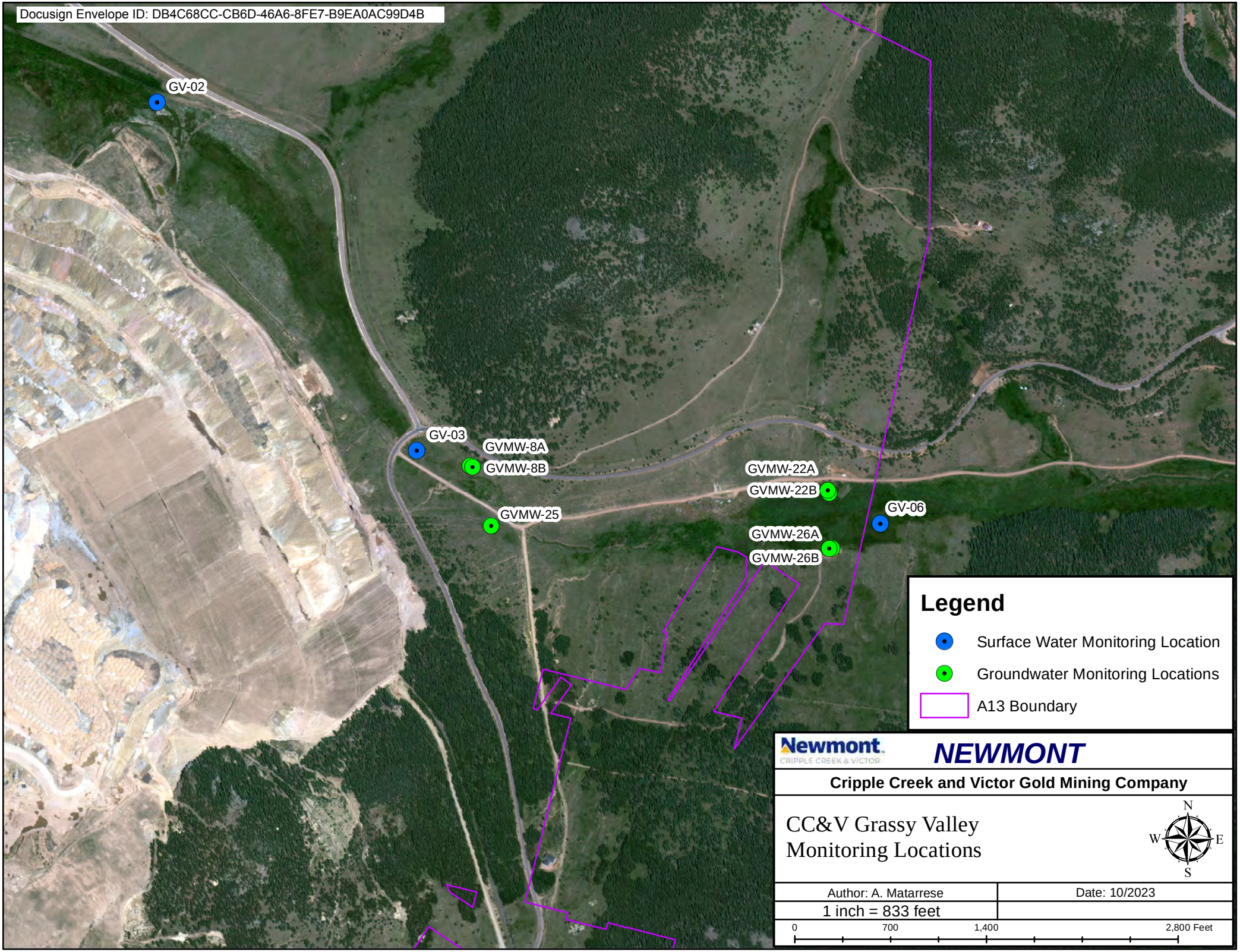
Figures







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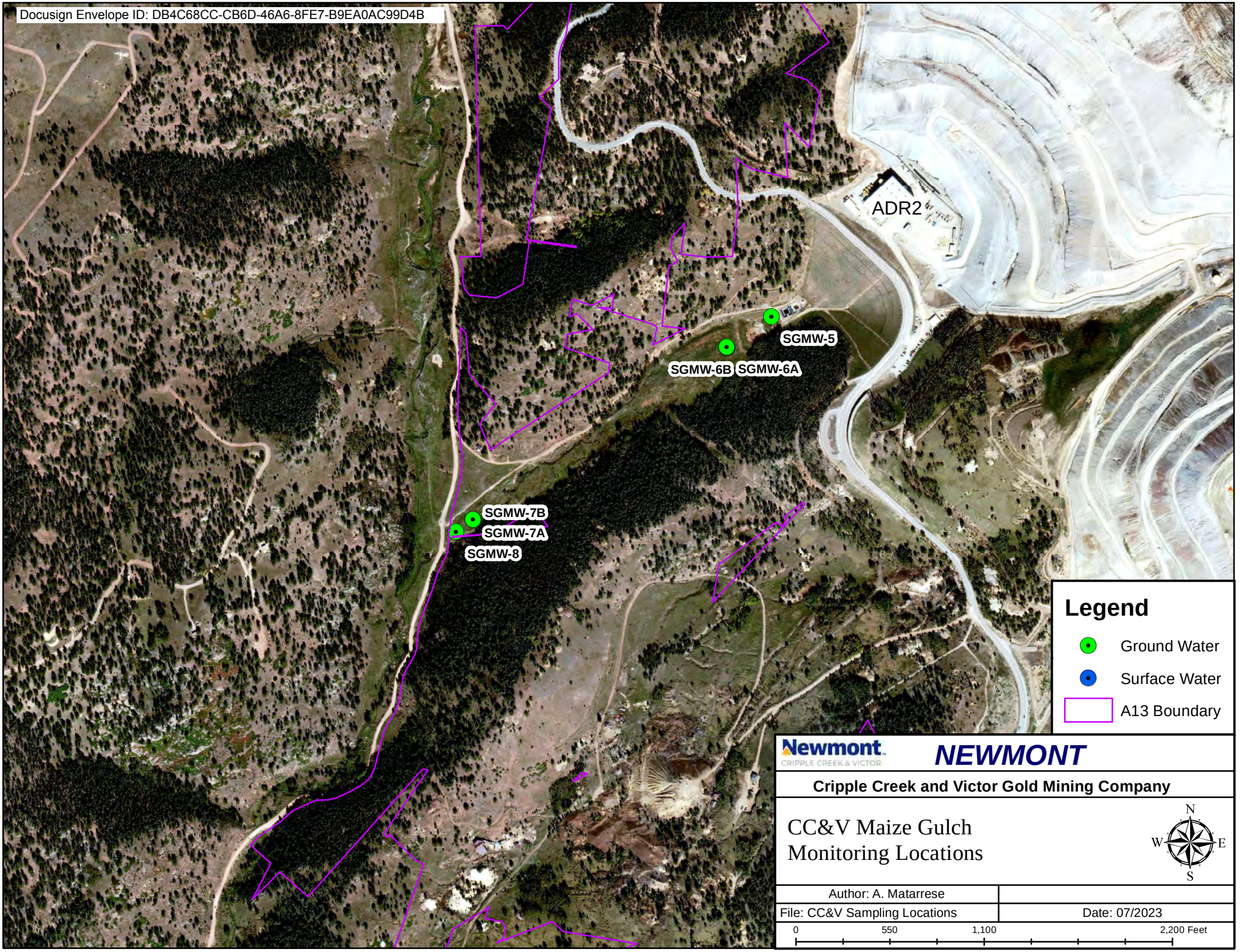
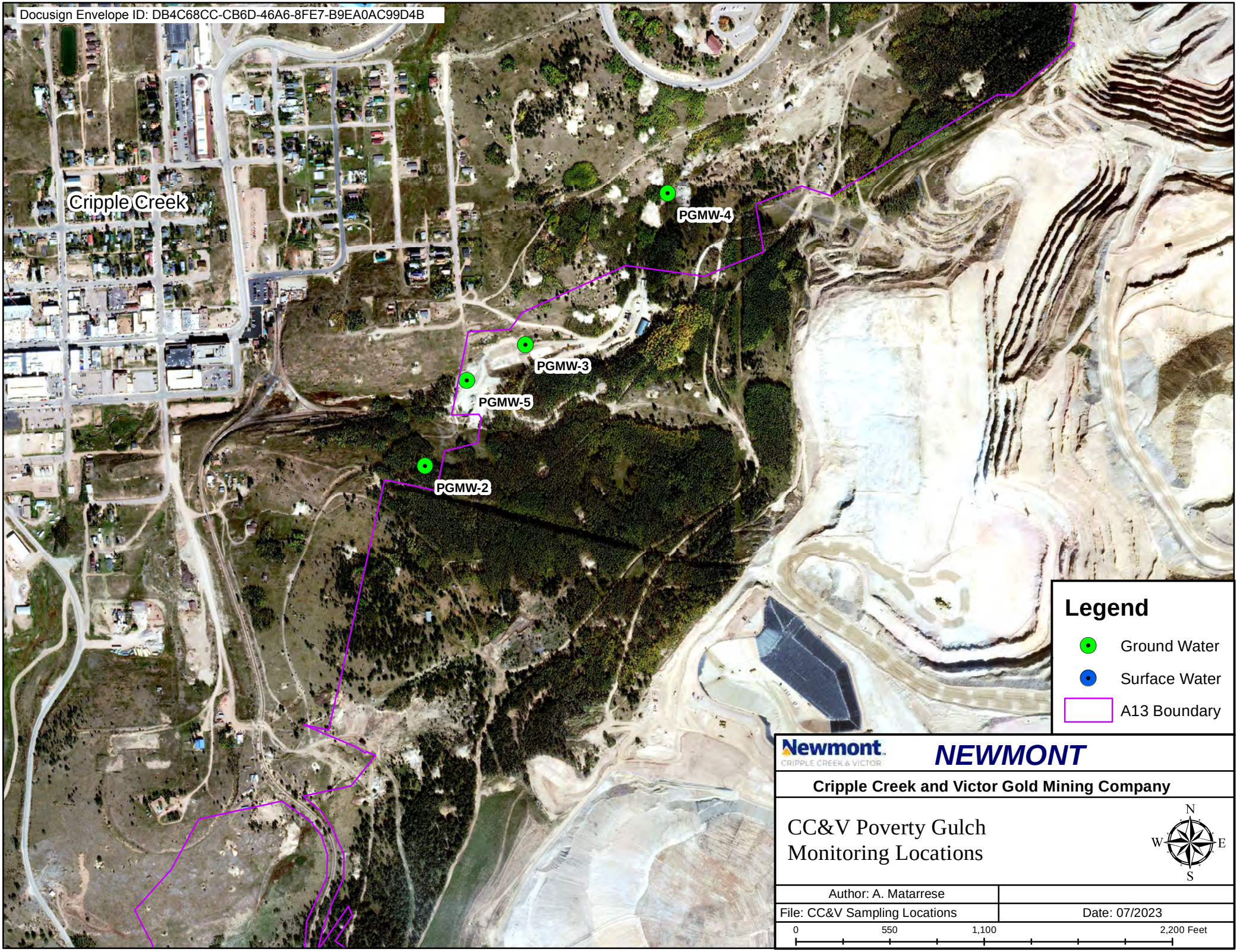
CC&V Grassy Valley Monitoring Locations

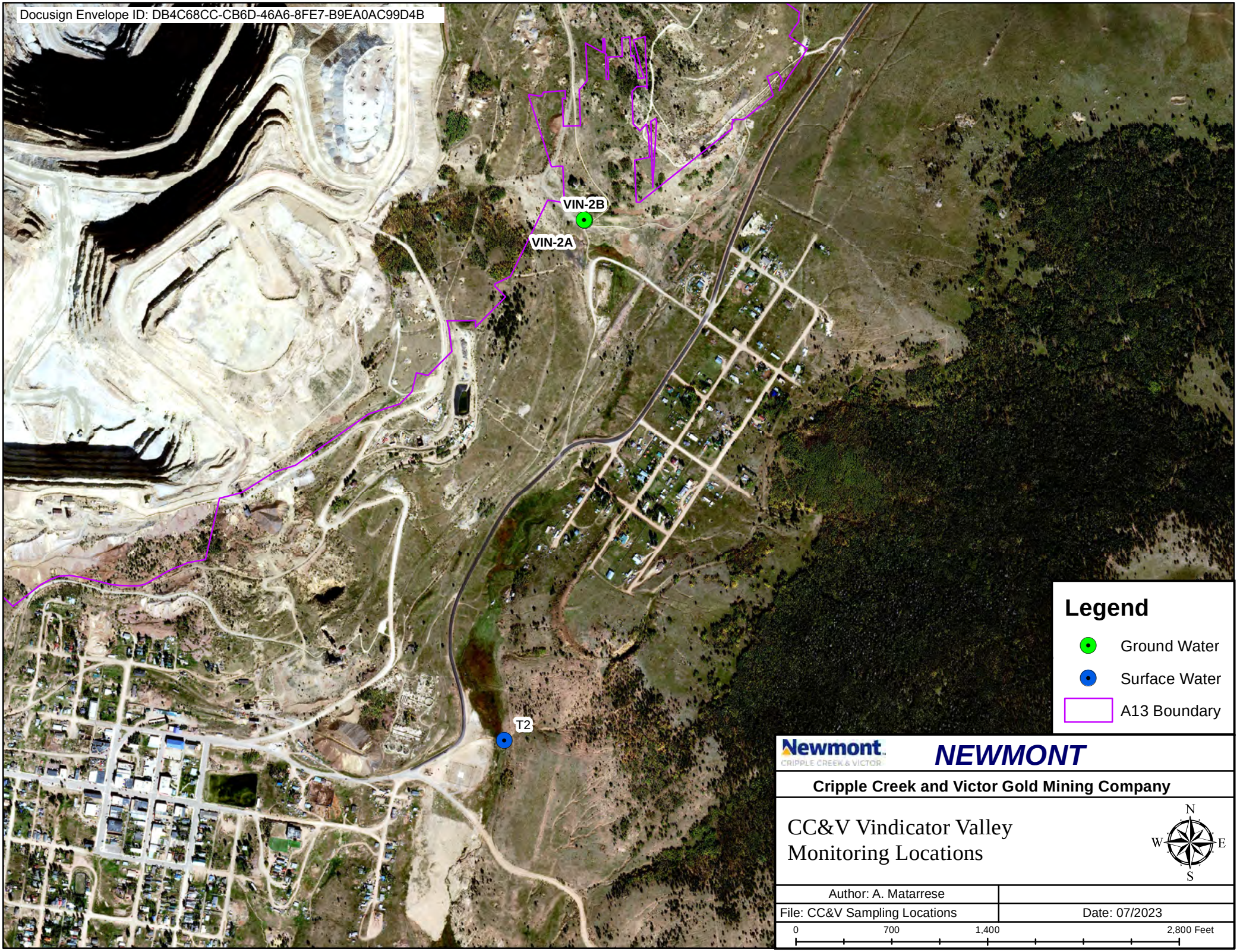
N
W E
S

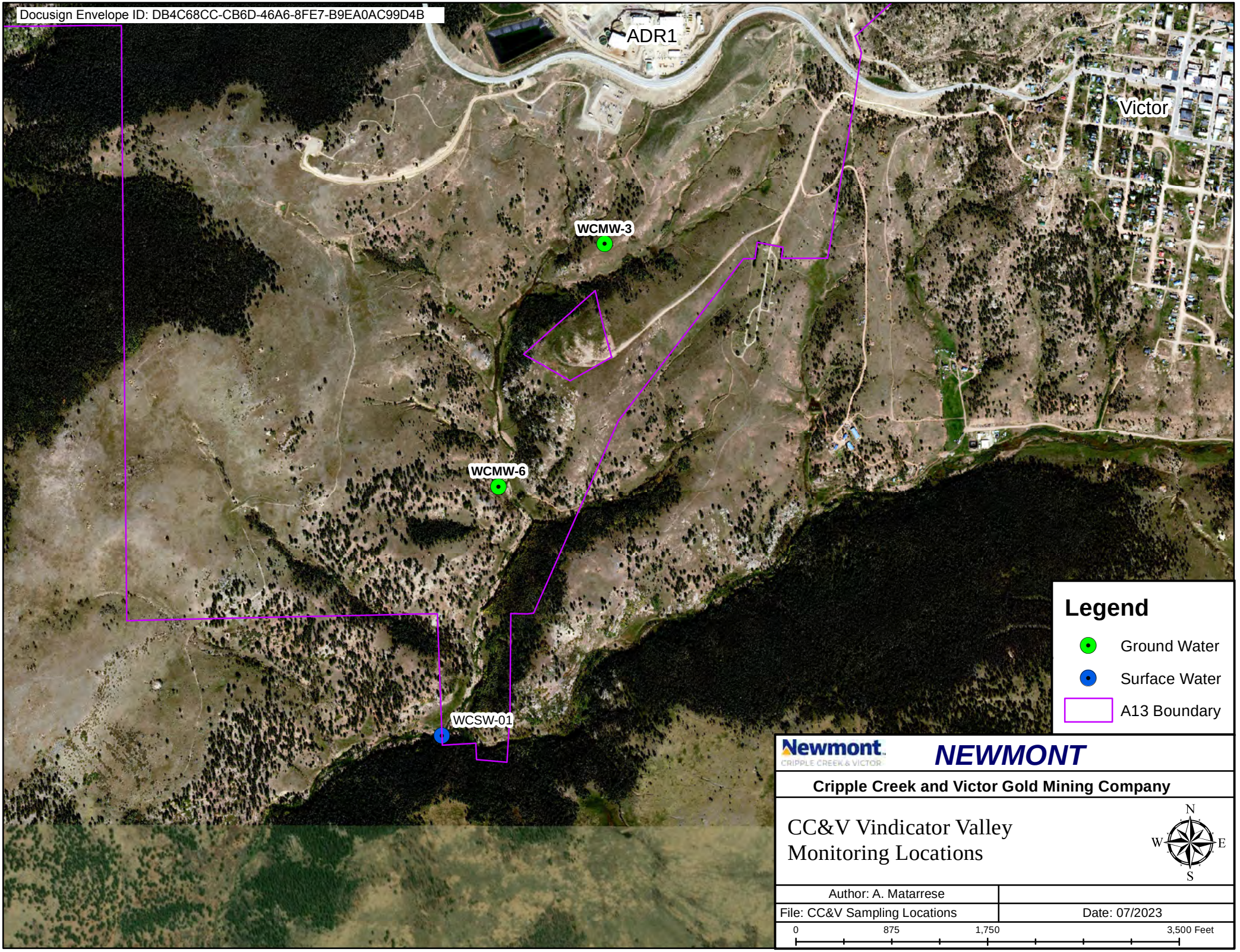
Author: A. Matarrese	Date: 10/2023
1 inch = 833 feet	

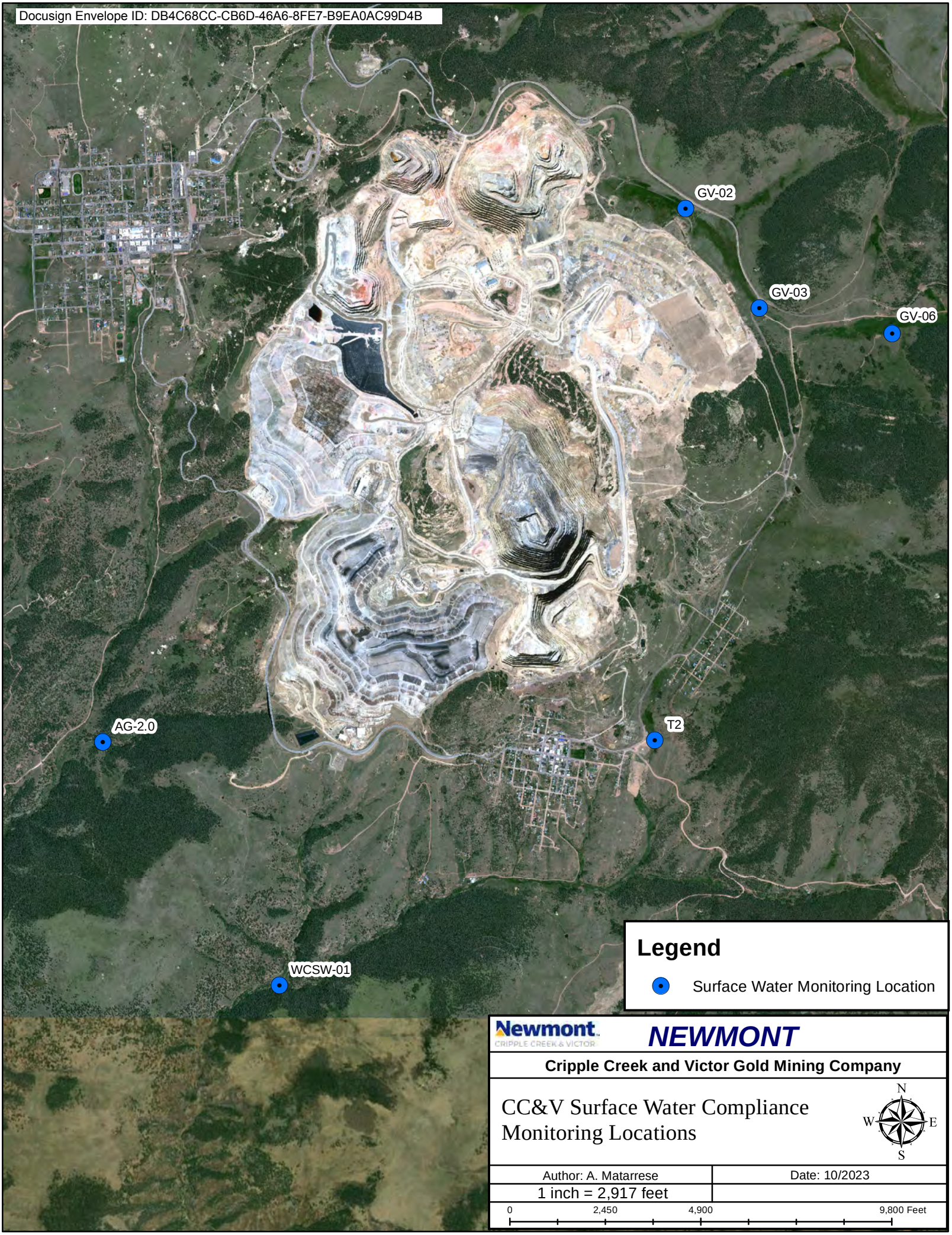
0 700 1,400 2,800 Feet











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CC&V Surface Water Compliance Monitoring Locations

N W E S

Author: A. Matarrese	Date: 10/2023
1 inch = 2,917 feet	

0 2,450 4,900 9,800 Feet

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Tables

Table 1
Quarterly Monitoring Location Summary
Cripple Creek and Victor Gold Mining Company

Monitoring Location	Date Monitored	Status	Comments
Poverty Gulch			
PGMW-2	7/3/2024	Dry	dry at 218' BTOC
PGMW-3	9/18/2024	Sampled	
PGMW-4	7/3/2024	Dry	dry at 39.3' BTOC
PGMW-5	9/17/2024	Sampled	
Maize Gulch			
SGMW-5	7/3/2024	Dry	dry at 256' BTOC
SGMW-6A	7/3/2024	Dry	dry at 400' BTOC
SGMW-6B	7/17/2024	Sampled	
SGMW-7A	7/3/2024	Dry	dry at 406' BTOC
SGMW-7B	7/3/2024	Dry	dry at 60' BTOC
SGMW-8	9/3/2024	NS-IW	Well was purged dry and insufficient water returned after 24 hours to collect a sample
Arequa Gulch			
CRMW-3A	8/21/2024	Sampled	
CRMW-3B	9/30/2024	Dry	
CRMW-3C	8/21/2024	Sampled	
CRMW-5A	7/17/2024	NS-IW	No sample collected due to insufficent water volume
CRMW-5B	7/17/2024	Sampled	
CRMW-5C	7/17/2024	Sampled	
CRMW-5D	7/17/2024	Sampled	
ESPMW-1	9/30/2024	NS	No sample collected due to an equipment failure
AG-2.0	7/17/2024	Sampled	
Wilson Creek			
WCMW-3	8/8/2024	Sampled	
WCMW-6	7/18/2024	Sampled	
WCSW-01	8/13/2024	Dry	No flowing water observed
Vindicator Valley			
VIN-2A	8/8/2024	Sampled	
VIN-2B	9/30/2024	NS	No sample collected due to an equipment failure
T-2	8/4/2024	Dry	No flowing water observed
Grassy Valley			
GVMW-8A*	7/23/2024, 8/20/2024, & 9/12/2024	Sampled	
GVMW-8B*	7/24/2024, 8/20/2024, & 9/12/2024	Sampled	
GVMW-22A*	7/9/2024, 8/5/2024, & 9/9/2024	Sampled	
GVMW-22B*	7/9/2024, 8/5/2024, & 9/9/2024	Sampled	
GVMW-25*	7/9/2024, 8/28/2024, & 9/16/2024	Sampled	
GVMW-26A*	7/9/2024, 8/5/2024, & 9/9/2024	Sampled	
GVMW-26B*	7/9/2024, 8/5/2024, & 9/9/2024	Sampled	
GV-02*	7/16/2024, 8/13/2024, & 9/18/2024	Dry	Dry throughout the quarter
GV-03*	7/16/2024, 8/27/2024, & 9/18/2024	Dry	Dry throughout the quarter
GV-06*	7/16/2024, 8/13/2024, & 9/18/2024	Sampled	

Notes:

D - Dry

NS-IW - Not sampled due to insufficient water

* - indicates locations that are monitored monthly

Table 2
Quarterly Groundwater Analytical Results
Third Quarter 2024
Cripple Creek and Victor Gold Mining Company

ANALYTE	Reg 41 TVS	Site-Wide NPL	UNIT	Well I.D.	PGMW-3	PGMW-5	SGMW-6B	CRMW-3A	CRMW-3C	CRMW-5B	CRMW-5C	CRMW-5D	WCMW-3*	WCMW-6*	VIN-2A	GVMW-8A*	GVMW-8B	GVMW-22A	GVMW-22B	GVMW-25	GVMW-26A	GVMW-26B
				Sample Date	9/18/2024	9/17/2024	7/17/2024	8/21/2024	8/21/2024	7/17/2024	7/17/2024	7/17/2024	8/8/2024	7/18/2024	8/8/2024	9/12/2024	9/12/2024	9/9/2024	9/9/2024	9/16/2024	9/9/2024	9/9/2024
Aluminium - Dissolved	5	**7**	mg/L		**12.2**	**66.6**	1.91	<0.080	<0.080	<0.080	0.15	0.34	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	**980**	<0.080	<0.080
Ammonia	NA	NA	mg/L		0.13	0.063	0.077	<0.030	<0.030	0.047	0.04	<0.030	<0.030	0.032	<0.030	<0.030	0.076	<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	<0.00100	<0.00100	<0.00100	<0.00100
Arsenic - Dissolved	**0.01**	NA	mg/L		<0.00100	0.00104	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.00528	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	**0.0218**	<0.00100	<0.00100
Barium - Dissolved	**2**	NA	mg/L		0.0158	0.0094	0.0082	0.0275	0.0117	0.0126	0.007	0.042	0.0713	0.0404	0.0087	<0.0020	0.0059	0.0997	0.0486	0.015	0.196	0.101
Beryllium - Dissolved	**0.004**	NA	mg/L		<0.00200	**0.0101**	**0.0988**	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	**0.661**	<0.00200	<0.00200
Boron - Total	**0.75**	NA	mg/L		<0.0400	<0.0400	0.0901	0.111	0.0743	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	0.0437	<0.0400	<0.0400
Cadmium - Dissolved	**0.005**	**0.005**	mg/L		0.0043	**0.0418**	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	**1.82**	<0.0020	<0.0020
Chloride - Total	**250**	NA	mg/L		52.8	47.2	132	230	181	9.35	5.77	4.33	1.2	2.15	7.59	64	44.9	3.79	10.4	24.3	1.24	1.89
Chromium - Dissolved	**0.1**	NA	mg/L		<0.0060	0.0094	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	**0.12**	<0.0060	<0.0060
Cobalt - Dissolved	**0.05**	NA	mg/L		0.027	**0.189**	0.0271	0.0238	0.0205	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0086	<0.0060	<0.0060	<0.0060	<0.0060	**2.13**	<0.0060	<0.0060
Copper - Dissolved	**0.2**	**0.2**	mg/L		0.101	**1.39**	0.0141	<0.0100	<0.0100	0.0121	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.0234	<0.0100	<0.0100	**4.12**	<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	0.025	<0.0050	<0.0050	<0.0050	<0.0050	<0.0500	<0.0050	<0.0050
Cyanide - Total	NA	NA	mg/L		<0.0050	<0.0050	<0.0050	0.021	<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	<0.0050	<0.0050	<0.0050	<0.0050
Fluoride - Total F	**2**	**2**	mg/L		1.93	**9.42**	**9.14**	**3.25**	**3.26**	**3.45**	**3.4**	**3.7**	0.787	**2.02**	0.214	1.91	**2.18**	**2.37**	0.375	**91.2**	1.98	0.208
Iron - Dissolved	0.3	**14**	mg/L		0.721	<0.100	7.77	<0.100	0.108	<0.100	<0.100	0.185	<0.100	0.939	0.123	<0.100	<0.100	<0.100	<0.100	6.3	<0.100	<0.100
Lead - Dissolved	**0.05**	NA	mg/L		<0.0075	<0.0075	0.0096	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	0.0352	<0.0075	<0.0075
Lithium - Dissolved	**2.5**	NA	mg/L		<0.040	0.071	0.06	0.13	0.08	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	0.196	<0.040	<0.040
Manganese - Dissolved	0.05	**3**	mg/L		**3.87**	**44.1**	**9**	<0.0080	2.47	0.313	<0.0080	0.0102	0.0375	0.174	0.0587	<0.0080	<0.0080	0.163	<0.0080	**249**	<0.0080	<0.0080
Mercury - Dissolved	**0.002**	**0.002**	mg/L		<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
Molybdenum - Dissolved	**0.21**	NA	mg/L		<0.0080	<0.0080	<0.0080	0.06	<0.0080	<0.0080	<0.0080	0.0187	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	0.0094	<0.0080	<0.0080	<0.0080	<0.0080
Nickel - Dissolved	**0.1**	NA	mg/L		0.031	**0.341**	**0.103**	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	**2.79**	<0.0100	<0.0100
Nitrate as Nitrogen	**10**	**10**	mg/L		6.39	2.88	<0.050	2.74	0.349	0.076	0.10	0.058	<0.050	<0.050	<0.050	1.28	2.24	<0.050	0.631	3.62	<0.050	0.737
Nitrite + Nitrate as Nitrogen	10	**11**	mg/L		6.39	2.88	<0.100	2.74	0.349	<0.100	0.101	<0.100	<0.100	<0.100	<0.100	1.28	2.24	<0.100	0.631	3.62	<0.100	0.737
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	<0.050	<0.050	<0.050	<0.050	<0.500	<0.050	<0.050
pH Field	6.5-8.5	**6.0-8.5**	pH units		**4.12**	**3.80**	**5.83**	6.63	6.83	7.46	6.73	6.51	7.71	7.09	7.47	6.87	6.74	7.77	6.65	**3.73**	7.87	6.4
Selenium - Dissolved	0.02	**0.024**	mg/L		0.00221	0.00253	<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	**0.038**	<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	<0.0050	<0.0050	<0.0050	<0.0050
Sodium - Dissolved	NA	NA	mg/L		25.1	27.7	70.9	97.30	70.8	8.78	7.20	5.77	11.3	16.1	24.4	24.1	24.9	37.4	16.3	40.9	31.6	10.1
Sulfate - Total	**250**	NA	mg/L		**609**	**885**	**1,600**	**845**	**696**	46.9	32.5	16.5	25	54.6	**663**	64.6	93	33.4	59	**9,740**	14.9	21.5
Thallium - Dissolved	**0.002**	NA	mg/L		0.000279	<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	<0.00100	<0.000200	<0.000200
Total Dissolved Solids	NA	NA	mg/L		993	1,600	2,340	1,620	1,480	176	131	86	232	239	1,200	277	279	212	195	13,900	204	87
Uranium - Dissolved	**0.03**	NA	mg/L		0.00223	0.028	0.0051	0.016100	0.0236	0.00494	0.000391	0.000208	0.00619	0.000731	0.00246	0.00483	0.00261	0.00328	0.000531	**3.65**	0.00319	<0.000100
Vanadium - Dissolved	**0.1**	NA	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zinc - Dissolved	**2**	**2**	mg/L		0.492	**5.64**	0.287	0.0118	0.032	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	**2.3**	<0.0100	<0.0100	<0.0100	<0.0100	**68.7**	<0.0100	<0.0100

Notes:
Applicable Standard vs. Non-applicable standard
* well specific NPL applied, refer table 3.2 in the QAPP
Result below laboratory detection limit
BOLD - exceeds applicable standard
< - less than
mg/L - miligrams per liter
NPL - Numeric Protection Limit
NS- Not sampled
TVS - table value standard
NS- Not sampled

Newmont
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Attachment 1

Laboratory Analytical Reports

Newmont
NORTH AMERICA

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Groundwater Quarterly Wells

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Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0290**
Reported: 01-Aug-24 16:11

Client Sample ID: **SGMW-6B**
SVL Sample ID: **X4G0290-01 (Ground Water)**

Sampled: 17-Jul-24 12:43
Received: 18-Jul-24
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**	482	mg/L	1.00	0.690	10	X430082	NMS	07/26/24 14:29	
EPA 200.7	**Magnesium**	95.6	mg/L	0.500	0.090		X430082	NMS	07/26/24 13:31	
EPA 200.7	**Potassium**	9.86	mg/L	0.50	0.18		X430082	NMS	07/26/24 13:31	
SM 2340 B	**Hardness (as CaCO3)**	1590	mg/L	2.31	0.543		N/A		07/26/24 13:31	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	1.91	mg/L	0.080	0.054		X430053	NMS	07/23/24 11:24	
EPA 200.7	**Barium**	0.0082	mg/L	0.0020	0.0019		X430053	NMS	07/23/24 11:24	
EPA 200.7	**Beryllium**	0.0988	mg/L	0.00200	0.00080		X430053	NMS	07/23/24 11:24	
EPA 200.7	**Boron**	0.0901	mg/L	0.0400	0.0078		X430053	NMS	07/23/24 11:24	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X430053	NMS	07/23/24 11:24	
EPA 200.7	**Calcium**	486	mg/L	0.100	0.069		X430053	NMS	07/23/24 11:24	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X430053	NMS	07/23/24 11:24	
EPA 200.7	**Cobalt**	0.0271	mg/L	0.0060	0.0046		X430053	NMS	07/23/24 11:24	
EPA 200.7	**Copper**	0.0141	mg/L	0.0100	0.0027		X430053	NMS	07/23/24 11:24	
EPA 200.7	**Iron**	7.77	mg/L	0.100	0.056		X430053	NMS	07/23/24 11:24	
EPA 200.7	**Lead**	0.0096	mg/L	0.0075	0.0049		X430053	NMS	07/23/24 11:24	
EPA 200.7	**Lithium**	0.060	mg/L	0.040	0.025		X430053	NMS	07/23/24 11:24	
EPA 200.7	**Magnesium**	92.2	mg/L	0.500	0.090		X430053	NMS	07/23/24 11:24	
EPA 200.7	**Manganese**	9.00	mg/L	0.0080	0.0034		X430053	NMS	07/23/24 11:24	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X430053	NMS	07/23/24 11:24	
EPA 200.7	**Nickel**	0.103	mg/L	0.0100	0.0048		X430053	NMS	07/23/24 11:24	
EPA 200.7	**Potassium**	9.27	mg/L	0.50	0.18		X430053	NMS	07/23/24 11:24	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X430053	NMS	07/23/24 11:24	
EPA 200.7	**Sodium**	70.9	mg/L	0.50	0.12		X430053	NMS	07/23/24 11:24	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X430053	NMS	07/23/24 11:24	
EPA 200.7	**Zinc**	0.287	mg/L	0.0100	0.0054		X430053	NMS	07/23/24 11:24	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X429205	SMU	07/23/24 16:19	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X429205	SMU	07/23/24 16:19	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X429205	SMU	07/23/24 16:19	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X429205	SMU	07/23/24 16:19	
EPA 200.8	**Uranium**	0.00510	mg/L	0.000100	0.000052		X429205	SMU	07/23/24 16:19	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X429236	MAC	07/29/24 16:58	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X430068	DD	07/25/24 11:57	R4
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X430014	DD	07/23/24 16:53	
EPA 350.1	**Ammonia as N**	0.077	mg/L	0.030	0.013		X430056	DD	07/24/24 13:16	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X430078	DD	07/23/24 16:41	
SM 2310 B	**Acidity to pH 8.3**	-63.5	mg/L as CaCO3	10.0			X430171	MWD	07/26/24 11:22	
SM 2320 B	**Total Alkalinity**	62.3	mg/L as CaCO3	1.0			X430051	MWD	07/23/24 12:29	
SM 2320 B	**Bicarbonate**	62.3	mg/L as CaCO3	1.0			X430051	MWD	07/23/24 12:29	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X430051	MWD	07/23/24 12:29	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X430051	MWD	07/23/24 12:29	
SM 2540 C	**Total Diss. Solids**	2340	mg/L	40			X429195	TJL	07/22/24 12:50	
SM 2540 D	**Total Susp. Solids**	75.0	mg/L	5.0			X429196	TJL	07/22/24 14:00	
SM 4500 H B	**pH @22.0°C**	6.0	pH Units				X430051	MWD	07/23/24 12:29	H5

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

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Newmont - Cripple Creek & Victor
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Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0290**
Reported: 01-Aug-24 16:11

Client Sample ID: **SGMW-6B**
SVL Sample ID: **X4G0290-01 (Ground Water)**

Sampled: 17-Jul-24 12:43
Received: 18-Jul-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	132	mg/L	10.0	1.10	50	X429143	KAG	07/18/24 12:18	
EPA 300.0	**Fluoride**	9.14	mg/L	5.00	0.850	50	X429143	KAG	07/18/24 12:18	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X429143	KAG	07/18/24 11:59	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X429143	KAG	07/18/24 11:59	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X429143	KAG	07/18/24 11:59	
EPA 300.0	**Sulfate as SO4**	1600	mg/L	15.0	9.00	50	X429143	KAG	07/18/24 12:18	

Cation/Anion Balance and TDS Ratios

Cation Sum: 35.8 meq/L Anion Sum: 38.8 meq/L C/A Balance: -3.97 % Calculated TDS: 2437 TDS/cTDS: 0.96

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

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Newmont - Cripple Creek & Victor
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Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0290**
Reported: 01-Aug-24 16:11

Client Sample ID: **CRMW-5C**
SVL Sample ID: **X4G0290-02 (Ground Water)**

Sampled: 17-Jul-24 11:18
Received: 18-Jul-24
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**	19.3	mg/L	0.100	0.069		X430082	NMS	07/26/24 13:34	
EPA 200.7	**Magnesium**	3.53	mg/L	0.500	0.090		X430082	NMS	07/26/24 13:34	
EPA 200.7	**Potassium**	2.46	mg/L	0.50	0.18		X430082	NMS	07/26/24 13:34	
SM 2340 B	**Hardness (as CaCO3)**	62.0	mg/L	2.31	0.543		N/A		07/26/24 13:34	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	0.145	mg/L	0.080	0.054		X430053	NMS	07/23/24 11:28	
EPA 200.7	**Barium**	0.0069	mg/L	0.0020	0.0019		X430053	NMS	07/23/24 11:28	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X430053	NMS	07/23/24 11:28	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X430053	NMS	07/23/24 11:28	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X430053	NMS	07/23/24 11:28	
EPA 200.7	**Calcium**	19.0	mg/L	0.100	0.069		X430053	NMS	07/23/24 11:28	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X430053	NMS	07/23/24 11:28	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X430053	NMS	07/23/24 11:28	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X430053	NMS	07/23/24 11:28	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X430053	NMS	07/23/24 11:28	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X430053	NMS	07/23/24 11:28	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X430053	NMS	07/23/24 11:28	
EPA 200.7	**Magnesium**	3.54	mg/L	0.500	0.090		X430053	NMS	07/23/24 11:28	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X430053	NMS	07/23/24 11:28	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X430053	NMS	07/23/24 11:28	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X430053	NMS	07/23/24 11:28	
EPA 200.7	**Potassium**	2.32	mg/L	0.50	0.18		X430053	NMS	07/23/24 11:28	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X430053	NMS	07/23/24 11:28	
EPA 200.7	**Sodium**	7.20	mg/L	0.50	0.12		X430053	NMS	07/23/24 11:28	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X430053	NMS	07/23/24 11:28	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X430053	NMS	07/23/24 11:28	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X429205	SMU	07/23/24 16:21	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X429205	SMU	07/23/24 16:21	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X429205	SMU	07/23/24 16:21	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X429205	SMU	07/23/24 16:21	
EPA 200.8	**Uranium**	0.000391	mg/L	0.000100	0.000052		X429205	SMU	07/23/24 16:21	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X429236	MAC	07/29/24 17:00	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X430068	DD	07/25/24 11:59	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X430014	DD	07/23/24 16:56	
EPA 350.1	**Ammonia as N**	0.035	mg/L	0.030	0.013		X430056	DD	07/24/24 13:18	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X430078	DD	07/23/24 16:43	
SM 2310 B	**Acidity to pH 8.3**	-34.7	mg/L as CaCO3	10.0			X430171	MWD	07/26/24 11:22	
SM 2320 B	**Total Alkalinity**	41.5	mg/L as CaCO3	1.0			X430051	MWD	07/23/24 12:34	
SM 2320 B	**Bicarbonate**	41.5	mg/L as CaCO3	1.0			X430051	MWD	07/23/24 12:34	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X430051	MWD	07/23/24 12:34	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X430051	MWD	07/23/24 12:34	
SM 2540 C	**Total Diss. Solids**	131	mg/L	10			X431115	TJL	08/01/24 13:05	H1
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X429196	TJL	07/22/24 14:00	
SM 4500 H B	**pH @21.9°C**	6.8	pH Units				X430051	MWD	07/23/24 12:34	H5

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

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Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0290**
Reported: 01-Aug-24 16:11

Client Sample ID: **CRMW-5C**
SVL Sample ID: **X4G0290-02 (Ground Water)**

Sampled: 17-Jul-24 11:18
Received: 18-Jul-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	5.77	mg/L	0.20	0.02		X429143	KAG	07/18/24 12:36	
EPA 300.0	**Fluoride**	3.40	mg/L	0.100	0.017		X429143	KAG	07/18/24 12:36	
EPA 300.0	**Nitrate as N**	0.101	mg/L	0.050	0.013		X429143	KAG	07/18/24 12:36	
EPA 300.0	**Nitrate+Nitrite as N**	0.101	mg/L	0.100	0.044		X429143	KAG	07/18/24 12:36	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X429143	KAG	07/18/24 12:36	
EPA 300.0	**Sulfate as SO4**	32.5	mg/L	0.30	0.18		X429143	KAG	07/18/24 12:36	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 1.64 meq/L Anion Sum: 1.85 meq/L C/A Balance: -6.27 % Calculated TDS: 99 TDS/cTDS: 1.32

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0290**
Reported: 01-Aug-24 16:11

Client Sample ID: **CRMW-5B**
SVL Sample ID: **X4G0290-04 (Ground Water)**

Sampled: 17-Jul-24 10:35
Received: 18-Jul-24
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**	40.9	mg/L	0.100	0.069		X430082	NMS	07/26/24 13:42	
EPA 200.7	**Magnesium**	5.78	mg/L	0.500	0.090		X430082	NMS	07/26/24 13:42	
EPA 200.7	**Potassium**	2.96	mg/L	0.50	0.18		X430082	NMS	07/26/24 13:42	
SM 2340 B	**Hardness (as CaCO3)**	123	mg/L	2.31	0.543		N/A		07/26/24 13:42	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X430053	NMS	07/23/24 11:35	
EPA 200.7	**Barium**	0.0126	mg/L	0.0020	0.0019		X430053	NMS	07/23/24 11:35	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X430053	NMS	07/23/24 11:35	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X430053	NMS	07/23/24 11:35	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X430053	NMS	07/23/24 11:35	
EPA 200.7	**Calcium**	36.6	mg/L	0.100	0.069		X430053	NMS	07/23/24 11:35	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X430053	NMS	07/23/24 11:35	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X430053	NMS	07/23/24 11:35	
EPA 200.7	**Copper**	0.0121	mg/L	0.0100	0.0027		X430053	NMS	07/23/24 11:35	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X430053	NMS	07/23/24 11:35	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X430053	NMS	07/23/24 11:35	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X430053	NMS	07/23/24 11:35	
EPA 200.7	**Magnesium**	5.07	mg/L	0.500	0.090		X430053	NMS	07/23/24 11:35	
EPA 200.7	**Manganese**	0.313	mg/L	0.0080	0.0034		X430053	NMS	07/23/24 11:35	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X430053	NMS	07/23/24 11:35	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X430053	NMS	07/23/24 11:35	
EPA 200.7	**Potassium**	2.63	mg/L	0.50	0.18		X430053	NMS	07/23/24 11:35	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X430053	NMS	07/23/24 11:35	
EPA 200.7	**Sodium**	8.78	mg/L	0.50	0.12		X430053	NMS	07/23/24 11:35	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X430053	NMS	07/23/24 11:35	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X430053	NMS	07/23/24 11:35	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X429205	SMU	07/23/24 16:26	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X429205	SMU	07/23/24 16:26	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X429205	SMU	07/23/24 16:26	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X429205	SMU	07/23/24 16:26	
EPA 200.8	**Uranium**	0.00494	mg/L	0.000100	0.000052		X429205	SMU	07/23/24 16:26	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X429236	MAC	07/29/24 17:09	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X430068	DD	07/25/24 12:09	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X430014	DD	07/23/24 17:01	
EPA 350.1	**Ammonia as N**	0.047	mg/L	0.030	0.013		X430056	DD	07/24/24 13:22	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X430078	DD	07/23/24 16:46	
SM 2310 B	**Acidity to pH 8.3**	-92.3	mg/L as CaCO3	10.0			X430171	MWD	07/26/24 11:22	
SM 2320 B	**Total Alkalinity**	90.2	mg/L as CaCO3	1.0			X430051	MWD	07/23/24 12:44	
SM 2320 B	**Bicarbonate**	90.2	mg/L as CaCO3	1.0			X430051	MWD	07/23/24 12:44	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X430051	MWD	07/23/24 12:44	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X430051	MWD	07/23/24 12:44	
SM 2540 C	**Total Diss. Solids**	176	mg/L	10			X429195	TJL	07/22/24 12:50	
SM 2540 D	**Total Susp. Solids**	7.0	mg/L	5.0			X429196	TJL	07/22/24 14:00	R2B
SM 4500 H B	**pH @22.3°C**	7.5	pH Units				X430051	MWD	07/23/24 12:44	H5

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0290**
Reported: 01-Aug-24 16:11

Client Sample ID: **CRMW-5B**
SVL Sample ID: **X4G0290-04 (Ground Water)**

Sampled: 17-Jul-24 10:35
Received: 18-Jul-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	9.35	mg/L	0.20	0.02		X429143	KAG	07/18/24 13:31	
EPA 300.0	**Fluoride**	3.45	mg/L	0.100	0.017		X429143	KAG	07/18/24 13:31	
EPA 300.0	**Nitrate as N**	0.076	mg/L	0.050	0.013		X429143	KAG	07/18/24 13:31	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X429143	KAG	07/18/24 13:31	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X429143	KAG	07/18/24 13:31	
EPA 300.0	**Sulfate as SO4**	46.9	mg/L	0.30	0.18		X429143	KAG	07/18/24 13:31	

Cation/Anion Balance and TDS Ratios

Cation Sum: 2.72 meq/L Anion Sum: 3.23 meq/L C/A Balance: -8.53 % Calculated TDS: 170 TDS/cTDS: 1.04

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0290**
Reported: 01-Aug-24 16:11

Client Sample ID: **CRMW-5D**
SVL Sample ID: **X4G0290-05 (Ground Water)**

Sampled: 17-Jul-24 09:40
Received: 18-Jul-24
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**	12.7	mg/L	0.100	0.069		X430082	NMS	07/26/24 13:46	
EPA 200.7	**Magnesium**	2.58	mg/L	0.500	0.090		X430082	NMS	07/26/24 13:46	
EPA 200.7	**Potassium**	2.42	mg/L	0.50	0.18		X430082	NMS	07/26/24 13:46	
SM 2340 B	**Hardness (as CaCO3)**	41.5	mg/L	2.31	0.543		N/A		07/26/24 13:46	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	0.340	mg/L	0.080	0.054		X430053	NMS	07/23/24 11:39	
EPA 200.7	**Barium**	0.0423	mg/L	0.0020	0.0019		X430053	NMS	07/23/24 11:39	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X430053	NMS	07/23/24 11:39	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X430053	NMS	07/23/24 11:39	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X430053	NMS	07/23/24 11:39	
EPA 200.7	**Calcium**	12.4	mg/L	0.100	0.069		X430053	NMS	07/23/24 11:39	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X430053	NMS	07/23/24 11:39	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X430053	NMS	07/23/24 11:39	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X430053	NMS	07/23/24 11:39	
EPA 200.7	**Iron**	0.185	mg/L	0.100	0.056		X430053	NMS	07/23/24 11:39	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X430053	NMS	07/23/24 11:39	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X430053	NMS	07/23/24 11:39	
EPA 200.7	**Magnesium**	2.38	mg/L	0.500	0.090		X430053	NMS	07/23/24 11:39	
EPA 200.7	**Manganese**	0.0102	mg/L	0.0080	0.0034		X430053	NMS	07/23/24 11:39	
EPA 200.7	**Molybdenum**	0.0187	mg/L	0.0080	0.0034		X430053	NMS	07/23/24 11:39	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X430053	NMS	07/23/24 11:39	
EPA 200.7	**Potassium**	2.15	mg/L	0.50	0.18		X430053	NMS	07/23/24 11:39	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X430053	NMS	07/23/24 11:39	
EPA 200.7	**Sodium**	5.77	mg/L	0.50	0.12		X430053	NMS	07/23/24 11:39	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X430053	NMS	07/23/24 11:39	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X430053	NMS	07/23/24 11:39	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X429205	SMU	07/23/24 16:31	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X429205	SMU	07/23/24 16:31	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X429205	SMU	07/23/24 16:31	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X429205	SMU	07/23/24 16:31	
EPA 200.8	**Uranium**	0.000208	mg/L	0.000100	0.000052		X429205	SMU	07/23/24 16:31	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X429236	MAC	07/29/24 17:11	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X430068	DD	07/25/24 12:11	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X430014	DD	07/23/24 17:04	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X430056	DD	07/24/24 13:34	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X430078	DD	07/23/24 16:47	
SM 2310 B	**Acidity to pH 8.3**	-34.7	mg/L as CaCO3	10.0			X430171	MWD	07/26/24 11:22	
SM 2320 B	**Total Alkalinity**	31.5	mg/L as CaCO3	1.0			X430051	MWD	07/23/24 12:49	
SM 2320 B	**Bicarbonate**	31.5	mg/L as CaCO3	1.0			X430051	MWD	07/23/24 12:49	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X430051	MWD	07/23/24 12:49	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X430051	MWD	07/23/24 12:49	
SM 2540 C	**Total Diss. Solids**	86	mg/L	10			X429195	TJL	07/22/24 12:50	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X429196	TJL	07/22/24 14:00	
SM 4500 H B	**pH @22.6°C**	6.7	pH Units				X430051	MWD	07/23/24 12:49	H5

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

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Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0290**
Reported: 01-Aug-24 16:11

Client Sample ID: **CRMW-5D**
SVL Sample ID: **X4G0290-05 (Ground Water)**

Sampled: 17-Jul-24 09:40
Received: 18-Jul-24
Sampled By: TR

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		X429143	KAG	07/18/24 14:08	
EPA 300.0	**Fluoride**	3.70	mg/L	0.100	0.017		X429143	KAG	07/18/24 14:08	
EPA 300.0	**Nitrate as N**	0.058	mg/L	0.050	0.013		X429143	KAG	07/18/24 14:08	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X429143	KAG	07/18/24 14:08	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X429143	KAG	07/18/24 14:08	
EPA 300.0	**Sulfate as SO4**	16.5	mg/L	0.30	0.18		X429143	KAG	07/18/24 14:08	

Cation/Anion Balance and TDS Ratios

Cation Sum: 1.17 meq/L Anion Sum: 1.29 meq/L C/A Balance: -4.96 % Calculated TDS: 67 TDS/cTDS: 1.29

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0290**
Reported: 01-Aug-24 16:11

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total)								
EPA 245.1	Mercury	mg/L	<0.000093	0.000093	0.000200	X429144	23-Jul-24	U
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X430082	26-Jul-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X430082	26-Jul-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X430082	26-Jul-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X430082	26-Jul-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X430082	26-Jul-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X430082	26-Jul-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X430082	26-Jul-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X430082	26-Jul-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X430082	26-Jul-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X430082	26-Jul-24	
EPA 200.7	Phosphorus	mg/L	<0.050	0.013	0.050	X430082	26-Jul-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X430082	26-Jul-24	
EPA 200.7	Sodium	mg/L	0.12	0.12	0.50	X430082	26-Jul-24	J
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X430082	26-Jul-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X430088	25-Jul-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X430088	25-Jul-24	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X430088	25-Jul-24	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X430088	25-Jul-24	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X430088	25-Jul-24	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X430088	25-Jul-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X430088	25-Jul-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X430053	23-Jul-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X430053	23-Jul-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X430053	23-Jul-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X430053	23-Jul-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X430053	23-Jul-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X430053	23-Jul-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X430053	23-Jul-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X430053	23-Jul-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X430053	23-Jul-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X430053	23-Jul-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X430053	23-Jul-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X430053	23-Jul-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X430053	23-Jul-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X430053	23-Jul-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X430053	23-Jul-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X430053	23-Jul-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X430053	23-Jul-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X430053	23-Jul-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X430053	23-Jul-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X430053	23-Jul-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X430053	23-Jul-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X429205	23-Jul-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X429205	23-Jul-24	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X429205	23-Jul-24	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X429205	23-Jul-24	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X429205	23-Jul-24	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X429205	23-Jul-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X429205	23-Jul-24	
EPA 200.8	Silver	mg/L	<0.00008	0.000061	0.00008	X429205	23-Jul-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X429205	23-Jul-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X429205	23-Jul-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0290**
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Quality Control - BLANK Data (Continued)

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X429236	29-Jul-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X430068	25-Jul-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X430014	23-Jul-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X430056	24-Jul-24	
EPA 351.2	TKN	mg/L	<0.50	0.31	0.50	X430034	25-Jul-24	B10
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X430078	23-Jul-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X430171	26-Jul-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X430051	23-Jul-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X430051	23-Jul-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X430051	23-Jul-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X430051	23-Jul-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X429195	22-Jul-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X431115	01-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X429196	22-Jul-24	
SM 4500 S D	Sulfide	mg/L	<0.050	0.020	0.050	X429199	22-Jul-24	
Dissolved Classical Chemistry Parameters								
SM 3500 Cr B	Hexavalent Chromium	mg/L	<0.0050	0.0019	0.0050	X429124	18-Jul-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X429143	18-Jul-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X429143	18-Jul-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X429143	18-Jul-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X429143	18-Jul-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X429143	18-Jul-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X429143	18-Jul-24	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)									
EPA 245.1	Mercury	mg/L	0.00228	0.00200	114	85 - 115	X429144	23-Jul-24	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Barium	mg/L	1.00	1.00	100	85 - 115	X430082	26-Jul-24	
EPA 200.7	Beryllium	mg/L	0.971	1.00	97.1	85 - 115	X430082	26-Jul-24	
EPA 200.7	Boron	mg/L	0.991	1.00	99.1	85 - 115	X430082	26-Jul-24	
EPA 200.7	Calcium	mg/L	19.4	20.0	97	85 - 115	X430082	26-Jul-24	
EPA 200.7	Chromium	mg/L	0.990	1.00	99.0	85 - 115	X430082	26-Jul-24	
EPA 200.7	Iron	mg/L	9.86	10.0	98.6	85 - 115	X430082	26-Jul-24	
EPA 200.7	Magnesium	mg/L	20.2	20.0	101	85 - 115	X430082	26-Jul-24	
EPA 200.7	Manganese	mg/L	0.972	1.00	97.2	85 - 115	X430082	26-Jul-24	
EPA 200.7	Molybdenum	mg/L	0.993	1.00	99.3	85 - 115	X430082	26-Jul-24	
EPA 200.7	Nickel	mg/L	0.942	1.00	94.2	85 - 115	X430082	26-Jul-24	
EPA 200.7	Phosphorus	mg/L	1.02	1.00	102	85 - 115	X430082	26-Jul-24	
EPA 200.7	Potassium	mg/L	19.8	20.0	99.2	85 - 115	X430082	26-Jul-24	
EPA 200.7	Sodium	mg/L	18.6	19.0	98.1	85 - 115	X430082	26-Jul-24	
EPA 200.7	Zinc	mg/L	0.960	1.00	96.0	85 - 115	X430082	26-Jul-24	
EPA 200.8	Antimony	mg/L	0.0242	0.0250	96.8	85 - 115	X430088	25-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0237	0.0250	95.0	85 - 115	X430088	25-Jul-24	
EPA 200.8	Cadmium	mg/L	0.0233	0.0250	93.2	85 - 115	X430088	25-Jul-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0290**
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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 200.8	Chromium	mg/L	0.0239	0.0250	95.4	85 - 115	X430088	25-Jul-24	
EPA 200.8	Copper	mg/L	0.0244	0.0250	97.6	85 - 115	X430088	25-Jul-24	
EPA 200.8	Lead	mg/L	0.0235	0.0250	93.8	85 - 115	X430088	25-Jul-24	
EPA 200.8	Selenium	mg/L	0.0243	0.0250	97.4	85 - 115	X430088	25-Jul-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.993	1.00	99.3	85 - 115	X430053	23-Jul-24	
EPA 200.7	Barium	mg/L	1.01	1.00	101	85 - 115	X430053	23-Jul-24	
EPA 200.7	Beryllium	mg/L	1.04	1.00	104	85 - 115	X430053	23-Jul-24	
EPA 200.7	Boron	mg/L	1.03	1.00	103	85 - 115	X430053	23-Jul-24	
EPA 200.7	Cadmium	mg/L	1.01	1.00	101	85 - 115	X430053	23-Jul-24	
EPA 200.7	Calcium	mg/L	19.9	20.0	99.7	85 - 115	X430053	23-Jul-24	
EPA 200.7	Chromium	mg/L	1.03	1.00	103	85 - 115	X430053	23-Jul-24	
EPA 200.7	Cobalt	mg/L	0.996	1.00	99.6	85 - 115	X430053	23-Jul-24	
EPA 200.7	Copper	mg/L	1.03	1.00	103	85 - 115	X430053	23-Jul-24	
EPA 200.7	Iron	mg/L	10.1	10.0	101	85 - 115	X430053	23-Jul-24	
EPA 200.7	Lead	mg/L	0.995	1.00	99.5	85 - 115	X430053	23-Jul-24	
EPA 200.7	Lithium	mg/L	0.982	1.00	98.2	85 - 115	X430053	23-Jul-24	
EPA 200.7	Magnesium	mg/L	20.0	20.0	100	85 - 115	X430053	23-Jul-24	
EPA 200.7	Manganese	mg/L	1.01	1.00	101	85 - 115	X430053	23-Jul-24	
EPA 200.7	Molybdenum	mg/L	1.03	1.00	103	85 - 115	X430053	23-Jul-24	
EPA 200.7	Nickel	mg/L	0.996	1.00	99.6	85 - 115	X430053	23-Jul-24	
EPA 200.7	Potassium	mg/L	20.3	20.0	102	85 - 115	X430053	23-Jul-24	
EPA 200.7	Silver	mg/L	0.0491	0.0500	98.2	85 - 115	X430053	23-Jul-24	
EPA 200.7	Sodium	mg/L	19.1	19.0	100	85 - 115	X430053	23-Jul-24	
EPA 200.7	Vanadium	mg/L	1.03	1.00	103	85 - 115	X430053	23-Jul-24	
EPA 200.7	Zinc	mg/L	1.02	1.00	102	85 - 115	X430053	23-Jul-24	
EPA 200.8	Antimony	mg/L	0.0236	0.0250	94.6	85 - 115	X429205	23-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0242	0.0250	96.7	85 - 115	X429205	23-Jul-24	
EPA 200.8	Cadmium	mg/L	0.0233	0.0250	93.2	85 - 115	X429205	23-Jul-24	
EPA 200.8	Chromium	mg/L	0.0237	0.0250	94.7	85 - 115	X429205	23-Jul-24	
EPA 200.8	Copper	mg/L	0.0236	0.0250	94.3	85 - 115	X429205	23-Jul-24	
EPA 200.8	Lead	mg/L	0.0237	0.0250	95.0	85 - 115	X429205	23-Jul-24	
EPA 200.8	Selenium	mg/L	0.0240	0.0250	96.2	85 - 115	X429205	23-Jul-24	
EPA 200.8	Silver	mg/L	0.0246	0.0250	98.4	85 - 115	X429205	23-Jul-24	
EPA 200.8	Thallium	mg/L	0.0235	0.0250	94.2	85 - 115	X429205	23-Jul-24	
EPA 200.8	Uranium	mg/L	0.0236	0.0250	94.4	85 - 115	X429205	23-Jul-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00209	0.00200	104	85 - 115	X429236	29-Jul-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.107	0.100	107	90 - 110	X430068	25-Jul-24	
EPA 335.4	Cyanide (total)	mg/L	0.0990	0.100	99.0	90 - 110	X430014	23-Jul-24	
EPA 350.1	Ammonia as N	mg/L	1.02	1.00	102	90 - 110	X430056	24-Jul-24	
EPA 351.2	TKN	mg/L	7.64	8.00	95.5	90 - 110	X430034	25-Jul-24	B10
OIA 1677	Cyanide (WAD)	mg/L	0.106	0.100	106	90 - 110	X430078	23-Jul-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	873	884	98.7	95.4 - 104	X430171	26-Jul-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.1	9.93	102	96.4 - 105	X430051	23-Jul-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	102	99.3	102	96.4 - 105	X430051	23-Jul-24	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X429196	22-Jul-24	
SM 4500 S D	Sulfide	mg/L	0.479	0.500	95.8	85 - 115	X429199	22-Jul-24	
Dissolved Classical Chemistry Parameters									
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.102	0.100	102	80 - 120	X429124	18-Jul-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0290**
Reported: 01-Aug-24 16:11

Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.09	3.00	103	90 - 110	X429143	18-Jul-24	
EPA 300.0	Fluoride	mg/L	2.05	2.00	102	90 - 110	X429143	18-Jul-24	
EPA 300.0	Nitrate as N	mg/L	2.09	2.00	104	90 - 110	X429143	18-Jul-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.67	4.50	104	90 - 110	X429143	18-Jul-24	
EPA 300.0	Nitrite as N	mg/L	2.58	2.50	103	90 - 110	X429143	18-Jul-24	
EPA 300.0	Sulfate as SO4	mg/L	10.5	10.0	105	90 - 110	X429143	18-Jul-24	

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0	<10.0	UDL	20	X430171 - X4G0254-01	26-Jul-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	41.7	41.6	0.2	20	X430051 - X4G0290-03	23-Jul-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	41.7	41.6	0.2	20	X430051 - X4G0290-03	23-Jul-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X430051 - X4G0290-03	23-Jul-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X430051 - X4G0290-03	23-Jul-24	
SM 2540 C	Total Diss. Solids	mg/L	166	163	1.8	10	X431115 - X4G0457-02	01-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	175	176	0.6	10	X429195 - X4G0290-04	22-Jul-24	
SM 2540 C	Total Diss. Solids	mg/L	379	389	2.6	10	X431115 - X4G0457-08	01-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	692	709	2.4	10	X429195 - X4G0293-04	22-Jul-24	
SM 2540 D	Total Susp. Solids	mg/L	12.0	11.0	8.7	10	X429196 - X4G0293-04	22-Jul-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	7.0	25.0	10	X429196 - X4G0290-04	22-Jul-24	R2B
SM 4500 H B	pH @22.4°C	pH Units	6.9	6.8	0.9	20	X430051 - X4G0290-03	23-Jul-24	
SM 4500-O-G	Dissolved Oxygen	mg/L	6.0	6.0	0.0	20	X429115 - X4G0246-01	19-Jul-24	
SM 4500-O-G	Dissolved Oxygen	mg/L	7.0	7.1	1.4	20	X429115 - X4G0292-01	19-Jul-24	

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 245.1	Mercury	mg/L	0.00333	0.00105	0.00200	114	70 - 130	X429144 - X4G0238-02	23-Jul-24	
EPA 245.1	Mercury	mg/L	0.00221	<0.000093	0.00200	111	70 - 130	X429144 - X4G0290-06	23-Jul-24	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	1.07	0.0475	1.00	103	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Barium	mg/L	1.03	0.0056	1.00	102	70 - 130	X430082 - X4G0320-04	26-Jul-24	
EPA 200.7	Beryllium	mg/L	0.970	<0.00200	1.00	97.0	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Beryllium	mg/L	1.01	<0.00200	1.00	101	70 - 130	X430082 - X4G0320-04	26-Jul-24	
EPA 200.7	Boron	mg/L	1.04	<0.0400	1.00	102	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Boron	mg/L	1.07	<0.0400	1.00	103	70 - 130	X430082 - X4G0320-04	26-Jul-24	
EPA 200.7	Calcium	mg/L	33.0	12.7	20.0	102	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Calcium	mg/L	183	158	20.0	124	70 - 130	X430082 - X4G0320-04	26-Jul-24	
EPA 200.7	Chromium	mg/L	0.999	<0.0060	1.00	99.9	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Chromium	mg/L	1.07	0.0614	1.00	101	70 - 130	X430082 - X4G0320-04	26-Jul-24	
EPA 200.7	Iron	mg/L	11.0	1.02	10.0	100	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Iron	mg/L	267	257	10.0	104	70 - 130	X430082 - X4G0320-04	26-Jul-24	
EPA 200.7	Magnesium	mg/L	23.5	2.58	20.0	104	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Magnesium	mg/L	46.4	24.7	20.0	108	70 - 130	X430082 - X4G0320-04	26-Jul-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0290**
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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	Manganese	mg/L	0.986	0.0094	1.00	97.7	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Manganese	mg/L	8.63	7.60	1.00	104	70 - 130	X430082 - X4G0320-04	26-Jul-24	
EPA 200.7	Molybdenum	mg/L	1.03	0.0187	1.00	101	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Molybdenum	mg/L	1.01	<0.0080	1.00	101	70 - 130	X430082 - X4G0320-04	26-Jul-24	
EPA 200.7	Nickel	mg/L	0.958	<0.0100	1.00	95.8	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Nickel	mg/L	2.19	1.21	1.00	97.9	70 - 130	X430082 - X4G0320-04	26-Jul-24	
EPA 200.7	Phosphorus	mg/L	1.10	0.065	1.00	103	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Phosphorus	mg/L	5.20	4.13	1.00	107	70 - 130	X430082 - X4G0320-04	26-Jul-24	
EPA 200.7	Potassium	mg/L	22.7	2.42	20.0	101	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Potassium	mg/L	21.3	<0.50	20.0	107	70 - 130	X430082 - X4G0320-04	26-Jul-24	
EPA 200.7	Sodium	mg/L	24.8	5.72	19.0	100	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Sodium	mg/L	21.8	1.70	19.0	106	70 - 130	X430082 - X4G0320-04	26-Jul-24	
EPA 200.7	Zinc	mg/L	0.980	<0.0100	1.00	97.4	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Zinc	mg/L	9.46	8.29	1.00	117	70 - 130	X430082 - X4G0320-04	26-Jul-24	
EPA 200.8	Antimony	mg/L	0.0242	<0.00100	0.0250	96.7	70 - 130	X430088 - X4G0313-01	25-Jul-24	
EPA 200.8	Antimony	mg/L	0.0250	<0.00100	0.0250	99.9	70 - 130	X430088 - X4G0314-05	25-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0238	<0.00100	0.0250	93.2	70 - 130	X430088 - X4G0313-01	25-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0366	0.0129	0.0250	94.7	70 - 130	X430088 - X4G0314-05	25-Jul-24	
EPA 200.8	Cadmium	mg/L	0.0236	0.000226	0.0250	93.4	70 - 130	X430088 - X4G0313-01	25-Jul-24	
EPA 200.8	Cadmium	mg/L	0.0236	<0.000100	0.0250	94.5	70 - 130	X430088 - X4G0314-05	25-Jul-24	
EPA 200.8	Chromium	mg/L	0.0225	<0.00100	0.0250	90.0	70 - 130	X430088 - X4G0313-01	25-Jul-24	
EPA 200.8	Chromium	mg/L	0.0232	<0.00100	0.0250	90.0	70 - 130	X430088 - X4G0314-05	25-Jul-24	
EPA 200.8	Copper	mg/L	0.0228	0.00044	0.0250	89.5	70 - 130	X430088 - X4G0313-01	25-Jul-24	
EPA 200.8	Copper	mg/L	0.0222	<0.00040	0.0250	88.7	70 - 130	X430088 - X4G0314-05	25-Jul-24	
EPA 200.8	Lead	mg/L	0.0231	<0.00020	0.0250	92.3	70 - 130	X430088 - X4G0313-01	25-Jul-24	
EPA 200.8	Lead	mg/L	0.0221	<0.00020	0.0250	88.4	70 - 130	X430088 - X4G0314-05	25-Jul-24	
EPA 200.8	Selenium	mg/L	0.0245	<0.00100	0.0250	98.0	70 - 130	X430088 - X4G0313-01	25-Jul-24	
EPA 200.8	Selenium	mg/L	0.0294	0.00522	0.0250	96.5	70 - 130	X430088 - X4G0314-05	25-Jul-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.939	<0.080	1.00	93.9	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Aluminum	mg/L	4.99	4.08	1.00	91.1	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Barium	mg/L	1.03	0.0475	1.00	98.1	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Barium	mg/L	0.993	0.0139	1.00	97.9	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Beryllium	mg/L	0.985	<0.00200	1.00	98.5	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Beryllium	mg/L	0.980	0.0145	1.00	96.5	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Boron	mg/L	1.05	<0.0400	1.00	102	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Boron	mg/L	1.05	0.0480	1.00	100	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Cadmium	mg/L	0.946	<0.0020	1.00	94.6	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Cadmium	mg/L	0.921	<0.0020	1.00	92.1	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Calcium	mg/L	187	169	20.0	90.7	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Calcium	mg/L	566	551	20.0	78.6	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Chromium	mg/L	0.980	<0.0060	1.00	98.0	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Chromium	mg/L	0.966	<0.0060	1.00	96.6	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Cobalt	mg/L	0.936	<0.0060	1.00	93.6	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Cobalt	mg/L	0.966	0.0393	1.00	92.7	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Copper	mg/L	0.990	<0.0100	1.00	98.1	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Copper	mg/L	1.28	0.269	1.00	101	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Iron	mg/L	9.66	<0.100	10.0	96.6	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Iron	mg/L	9.67	<0.100	10.0	96.7	70 - 130	X430053 - X4G0325-02	23-Jul-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0290**
Reported: 01-Aug-24 16:11

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Lead	mg/L	0.931	<0.0075	1.00	93.1	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Lead	mg/L	0.913	<0.0075	1.00	91.3	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Lithium	mg/L	0.932	<0.040	1.00	93.2	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Lithium	mg/L	0.907	<0.040	1.00	90.7	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Magnesium	mg/L	39.2	20.1	20.0	95.6	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Magnesium	mg/L	162	140	20.0	109	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Manganese	mg/L	0.961	<0.0080	1.00	95.4	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Manganese	mg/L	13.8	13.0	1.00	83.9	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Molybdenum	mg/L	1.53	0.543	1.00	98.5	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Molybdenum	mg/L	0.981	<0.0080	1.00	97.6	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Nickel	mg/L	0.935	<0.0100	1.00	93.5	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Nickel	mg/L	1.04	0.106	1.00	93.0	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Potassium	mg/L	23.8	4.30	20.0	97.7	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Potassium	mg/L	27.1	6.75	20.0	102	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Silver	mg/L	0.0416	<0.0050	0.0500	83.2	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Silver	mg/L	0.0395	<0.0050	0.0500	78.9	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Sodium	mg/L	71.7	54.2	19.0	92.2	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Sodium	mg/L	99.2	81.1	19.0	95.3	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Vanadium	mg/L	0.999	<0.0050	1.00	99.9	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Vanadium	mg/L	0.997	<0.0050	1.00	99.5	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Zinc	mg/L	0.971	<0.0100	1.00	97.1	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Zinc	mg/L	1.21	0.258	1.00	95.3	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.8	Antimony	mg/L	0.0256	<0.00100	0.0250	103	70 - 130	X429205 - X4G0192-02	23-Jul-24	
EPA 200.8	Antimony	mg/L	0.0249	<0.00100	0.0250	99.7	70 - 130	X429205 - X4G0290-04	23-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0245	<0.00100	0.0250	98.1	70 - 130	X429205 - X4G0192-02	23-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0255	<0.00100	0.0250	102	70 - 130	X429205 - X4G0290-04	23-Jul-24	
EPA 200.8	Cadmium	mg/L	0.0244	0.000345	0.0250	96.4	70 - 130	X429205 - X4G0192-02	23-Jul-24	
EPA 200.8	Cadmium	mg/L	0.0244	<0.000100	0.0250	97.7	70 - 130	X429205 - X4G0290-04	23-Jul-24	
EPA 200.8	Chromium	mg/L	0.0251	0.00139	0.0250	95.0	70 - 130	X429205 - X4G0192-02	23-Jul-24	
EPA 200.8	Chromium	mg/L	0.0252	<0.00100	0.0250	101	70 - 130	X429205 - X4G0290-04	23-Jul-24	
EPA 200.8	Copper	mg/L	0.0292	0.00489	0.0250	97.2	70 - 130	X429205 - X4G0192-02	23-Jul-24	
EPA 200.8	Copper	mg/L	0.0381	0.0115	0.0250	106	70 - 130	X429205 - X4G0290-04	23-Jul-24	
EPA 200.8	Lead	mg/L	0.0237	<0.00020	0.0250	94.9	70 - 130	X429205 - X4G0192-02	23-Jul-24	
EPA 200.8	Lead	mg/L	0.0244	<0.00020	0.0250	97.6	70 - 130	X429205 - X4G0290-04	23-Jul-24	
EPA 200.8	Selenium	mg/L	0.0224	<0.00100	0.0250	89.8	70 - 130	X429205 - X4G0192-02	23-Jul-24	
EPA 200.8	Selenium	mg/L	0.0242	<0.00100	0.0250	95.7	70 - 130	X429205 - X4G0290-04	23-Jul-24	
EPA 200.8	Silver	mg/L	0.0241	<0.00008	0.0250	96.4	70 - 130	X429205 - X4G0192-02	23-Jul-24	
EPA 200.8	Silver	mg/L	0.0245	<0.00008	0.0250	97.9	70 - 130	X429205 - X4G0290-04	23-Jul-24	
EPA 200.8	Thallium	mg/L	0.0226	<0.000200	0.0250	90.3	70 - 130	X429205 - X4G0192-02	23-Jul-24	
EPA 200.8	Thallium	mg/L	0.0217	<0.000200	0.0250	86.9	70 - 130	X429205 - X4G0290-04	23-Jul-24	
EPA 200.8	Uranium	mg/L	0.0308	0.00596	0.0250	99.3	70 - 130	X429205 - X4G0192-02	23-Jul-24	
EPA 200.8	Uranium	mg/L	0.0298	0.00494	0.0250	99.5	70 - 130	X429205 - X4G0290-04	23-Jul-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00211	<0.000200	0.00200	106	70 - 130	X429236 - X4G0253-04	29-Jul-24	
EPA 245.1	Mercury	mg/L	0.00214	<0.000200	0.00200	107	70 - 130	X429236 - X4G0290-05	29-Jul-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.118	<0.0050	0.100	118	79 - 121	X430068 - X4G0290-01	25-Jul-24	R4
EPA 335.4	Cyanide (total)	mg/L	0.0400	<0.0050	0.100	40.0	90 - 110	X430014 - X4G0238-01	23-Jul-24	M2

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0290**
Reported: 01-Aug-24 16:11

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters (Continued)										
EPA 335.4	Cyanide (total)	mg/L	0.0823	0.0057	0.100	76.6	90 - 110	X430014 - X4G0238-02	23-Jul-24	M2
EPA 350.1	Ammonia as N	mg/L	1.09	0.077	1.00	101	90 - 110	X430056 - X4G0290-01	24-Jul-24	
EPA 350.1	Ammonia as N	mg/L	1.08	0.035	1.00	104	90 - 110	X430056 - X4G0290-02	24-Jul-24	
EPA 351.2	TKN	mg/L	6.02	<0.50	8.00	70.6	90 - 110	X430034 - X4G0250-01	25-Jul-24	B10,M2,R2B
EPA 351.2	TKN	mg/L	8.03	0.81	8.00	90.3	90 - 110	X430034 - X4G0250-02	25-Jul-24	B10
OIA 1677	Cyanide (WAD)	mg/L	0.0890	<0.0050	0.100	89.0	82 - 118	X430078 - X4G0192-02	23-Jul-24	
SM 4500 S D	Sulfide	mg/L	0.240	<0.050	0.200	120	75 - 125	X429199 - X4G0246-01	22-Jul-24	
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0204	<0.0050	0.0200	102	75 - 125	X429124 - X4G0181-03	18-Jul-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	8.87	5.77	3.00	104	90 - 110	X429143 - X4G0290-03	18-Jul-24	
EPA 300.0	Chloride	mg/L	30.7	27.5	3.00	106	90 - 110	X429143 - X4G0262-01	18-Jul-24	M2
EPA 300.0	Fluoride	mg/L	5.86	3.52	2.00	117	90 - 110	X429143 - X4G0290-03	18-Jul-24	M1
EPA 300.0	Fluoride	mg/L	2.72	0.314	2.00	120	90 - 110	X429143 - X4G0262-01	18-Jul-24	M1
EPA 300.0	Nitrate as N	mg/L	2.16	0.102	2.00	103	90 - 110	X429143 - X4G0290-03	18-Jul-24	
EPA 300.0	Nitrate as N	mg/L	2.09	<0.050	2.00	103	90 - 110	X429143 - X4G0262-01	18-Jul-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.20	0.102	4.00	102	90 - 110	X429143 - X4G0290-03	18-Jul-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.11	<0.100	4.00	103	90 - 110	X429143 - X4G0262-01	18-Jul-24	
EPA 300.0	Nitrite as N	mg/L	2.04	<0.050	2.00	102	90 - 110	X429143 - X4G0290-03	18-Jul-24	
EPA 300.0	Nitrite as N	mg/L	2.02	<0.050	2.00	101	90 - 110	X429143 - X4G0262-01	18-Jul-24	
EPA 300.0	Sulfate as SO4	mg/L	43.8	33.0	10.0	108	90 - 110	X429143 - X4G0290-03	18-Jul-24	
EPA 300.0	Sulfate as SO4	mg/L	361	351	10.0	101	90 - 110	X429143 - X4G0262-01	18-Jul-24	

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 245.1	Mercury	mg/L	0.00332	0.00333	0.00200	0.3	20	113	X429144 - X4G0238-02	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	1.04	1.07	1.00	2.9	20	99.6	X430082 - X4G0290-05	
EPA 200.7	Beryllium	mg/L	0.983	0.970	1.00	1.3	20	98.3	X430082 - X4G0290-05	
EPA 200.7	Boron	mg/L	1.03	1.04	1.00	0.3	20	102	X430082 - X4G0290-05	
EPA 200.7	Calcium	mg/L	32.8	33.0	20.0	0.8	20	100	X430082 - X4G0290-05	
EPA 200.7	Chromium	mg/L	0.996	0.999	1.00	0.3	20	99.6	X430082 - X4G0290-05	
EPA 200.7	Iron	mg/L	10.9	11.0	10.0	1.2	20	98.7	X430082 - X4G0290-05	
EPA 200.7	Magnesium	mg/L	22.8	23.5	20.0	3.0	20	101	X430082 - X4G0290-05	
EPA 200.7	Manganese	mg/L	0.985	0.986	1.00	0.1	20	97.5	X430082 - X4G0290-05	
EPA 200.7	Molybdenum	mg/L	1.02	1.03	1.00	0.5	20	100	X430082 - X4G0290-05	
EPA 200.7	Nickel	mg/L	0.953	0.958	1.00	0.5	20	95.3	X430082 - X4G0290-05	
EPA 200.7	Phosphorus	mg/L	1.09	1.10	1.00	1.0	20	102	X430082 - X4G0290-05	
EPA 200.7	Potassium	mg/L	22.5	22.7	20.0	0.4	20	101	X430082 - X4G0290-05	
EPA 200.7	Sodium	mg/L	24.5	24.8	19.0	0.9	20	99.1	X430082 - X4G0290-05	
EPA 200.7	Zinc	mg/L	0.979	0.980	1.00	0.1	20	97.3	X430082 - X4G0290-05	
EPA 200.8	Antimony	mg/L	0.0245	0.0242	0.0250	1.1	20	97.8	X430088 - X4G0313-01	
EPA 200.8	Arsenic	mg/L	0.0237	0.0238	0.0250	0.6	20	92.6	X430088 - X4G0313-01	
EPA 200.8	Cadmium	mg/L	0.0242	0.0236	0.0250	2.7	20	95.9	X430088 - X4G0313-01	
EPA 200.8	Chromium	mg/L	0.0229	0.0225	0.0250	1.9	20	91.6	X430088 - X4G0313-01	
EPA 200.8	Copper	mg/L	0.0233	0.0228	0.0250	2.1	20	91.5	X430088 - X4G0313-01	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0290**
Reported: 01-Aug-24 16:11

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136) (Continued)										
EPA 200.8	Lead	mg/L	0.0231	0.0231	0.0250	0.3	20	92.5	X430088 - X4G0313-01	
EPA 200.8	Selenium	mg/L	0.0251	0.0245	0.0250	2.4	20	100	X430088 - X4G0313-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.930	0.939	1.00	1.1	20	93.0	X430053 - X4G0325-01	
EPA 200.7	Barium	mg/L	1.03	1.03	1.00	0.2	20	98.3	X430053 - X4G0325-01	
EPA 200.7	Beryllium	mg/L	0.944	0.985	1.00	4.2	20	94.4	X430053 - X4G0325-01	
EPA 200.7	Boron	mg/L	1.04	1.05	1.00	1.3	20	101	X430053 - X4G0325-01	
EPA 200.7	Cadmium	mg/L	0.929	0.946	1.00	1.8	20	92.9	X430053 - X4G0325-01	
EPA 200.7	Calcium	mg/L	188	187	20.0	0.4	20	94.9	X430053 - X4G0325-01	
EPA 200.7	Chromium	mg/L	0.957	0.980	1.00	2.5	20	95.7	X430053 - X4G0325-01	
EPA 200.7	Cobalt	mg/L	0.920	0.936	1.00	1.7	20	92.0	X430053 - X4G0325-01	
EPA 200.7	Copper	mg/L	0.974	0.990	1.00	1.6	20	96.5	X430053 - X4G0325-01	
EPA 200.7	Iron	mg/L	9.53	9.66	10.0	1.3	20	95.3	X430053 - X4G0325-01	
EPA 200.7	Lead	mg/L	0.917	0.931	1.00	1.6	20	91.7	X430053 - X4G0325-01	
EPA 200.7	Lithium	mg/L	0.915	0.932	1.00	1.8	20	91.5	X430053 - X4G0325-01	
EPA 200.7	Magnesium	mg/L	39.9	39.2	20.0	1.8	20	99.1	X430053 - X4G0325-01	
EPA 200.7	Manganese	mg/L	0.941	0.961	1.00	2.1	20	93.5	X430053 - X4G0325-01	
EPA 200.7	Molybdenum	mg/L	1.51	1.53	1.00	1.4	20	96.4	X430053 - X4G0325-01	
EPA 200.7	Nickel	mg/L	0.922	0.935	1.00	1.4	20	92.2	X430053 - X4G0325-01	
EPA 200.7	Potassium	mg/L	23.8	23.8	20.0	0.1	20	97.6	X430053 - X4G0325-01	
EPA 200.7	Silver	mg/L	0.0411	0.0416	0.0500	1.2	20	82.2	X430053 - X4G0325-01	
EPA 200.7	Sodium	mg/L	71.7	71.7	19.0	0.1	20	92.4	X430053 - X4G0325-01	
EPA 200.7	Vanadium	mg/L	0.974	0.999	1.00	2.5	20	97.4	X430053 - X4G0325-01	
EPA 200.7	Zinc	mg/L	0.959	0.971	1.00	1.3	20	95.9	X430053 - X4G0325-01	
EPA 200.8	Antimony	mg/L	0.0256	0.0256	0.0250	0.1	20	102	X429205 - X4G0192-02	
EPA 200.8	Arsenic	mg/L	0.0257	0.0245	0.0250	4.7	20	103	X429205 - X4G0192-02	
EPA 200.8	Cadmium	mg/L	0.0246	0.0244	0.0250	0.6	20	97.0	X429205 - X4G0192-02	
EPA 200.8	Chromium	mg/L	0.0263	0.0251	0.0250	4.7	20	99.8	X429205 - X4G0192-02	
EPA 200.8	Copper	mg/L	0.0300	0.0292	0.0250	2.9	20	101	X429205 - X4G0192-02	
EPA 200.8	Lead	mg/L	0.0242	0.0237	0.0250	2.1	20	96.9	X429205 - X4G0192-02	
EPA 200.8	Selenium	mg/L	0.0241	0.0224	0.0250	7.1	20	96.4	X429205 - X4G0192-02	
EPA 200.8	Silver	mg/L	0.0246	0.0241	0.0250	1.9	20	98.3	X429205 - X4G0192-02	
EPA 200.8	Thallium	mg/L	0.0230	0.0226	0.0250	2.1	20	92.1	X429205 - X4G0192-02	
EPA 200.8	Uranium	mg/L	0.0311	0.0308	0.0250	1.0	20	100	X429205 - X4G0192-02	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00206	0.00211	0.00200	2.4	20	103	X429236 - X4G0253-04	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.123	0.118	0.100	4.2	11	123	X430068 - X4G0290-01	R4
EPA 335.4	Cyanide (total)	mg/L	0.0415	0.0400	0.100	3.7	20	41.5	X430014 - X4G0238-01	M2
EPA 350.1	Ammonia as N	mg/L	1.03	1.09	1.00	5.5	20	95.5	X430056 - X4G0290-01	
EPA 351.2	TKN	mg/L	7.89	6.02	8.00	26.8	20	93.9	X430034 - X4G0250-01	B10,R2B
OIA 1677	Cyanide (WAD)	mg/L	0.0950	0.0890	0.100	6.5	11	95.0	X430078 - X4G0192-02	
SM 4500 S D	Sulfide	mg/L	0.242	0.240	0.200	0.8	20	121	X429199 - X4G0246-01	
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0221	0.0204	0.0200	8.2	20	111	X429124 - X4G0181-03	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	30.3	30.7	3.00	1.3	20	93.0	X429143 - X4G0262-01	M2
EPA 300.0	Fluoride	mg/L	2.74	2.72	2.00	0.8	20	121	X429143 - X4G0262-01	M1
EPA 300.0	Nitrate as N	mg/L	2.11	2.09	2.00	1.1	20	104	X429143 - X4G0262-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.15	4.11	4.00	1.0	20	104	X429143 - X4G0262-01	
EPA 300.0	Nitrite as N	mg/L	2.04	2.02	2.00	0.9	20	102	X429143 - X4G0262-01	

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Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0290**
Reported: 01-Aug-24 16:11

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Anions by Ion Chromatography (Continued)										
EPA 300.0	Sulfate as SO4	mg/L	356	361	10.0	1.3	20	0.30R>S	X429143 - X4G0262-01	M2

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4G0290**
Victor, CO 80860	Reported: 01-Aug-24 16:11

Notes and Definitions

B10	Target analyte detected in method blank above laboratory acceptance limit but below reporting limit.
H1	Sample analysis performed past holding time.
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.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
R2B	RPD exceeded the laboratory acceptance limit.
R4	MS/MSD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.
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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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4G0311**
Victor, CO 80860	Reported: 31-Jul-24 13:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
WCMW-6	X4G0311-01	Ground Water	18-Jul-24 13:40	TR	19-Jul-2024	

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: X4G0311

The state of origin only accredits for drinking water analyses.

Samples treated with $CdCO_3$ before CN analysis for sulfide interference at client request.

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Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0311**
Reported: 31-Jul-24 13:22

Client Sample ID: **WCMW-6**
SVL Sample ID: **X4G0311-01 (Ground Water)**

Sampled: 18-Jul-24 13:40
Received: 19-Jul-24
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**	44.3	mg/L	0.100	0.069		X430179	NMS	07/26/24 13:15	
EPA 200.7	**Magnesium**	11.5	mg/L	0.500	0.090		X430179	NMS	07/26/24 13:15	
EPA 200.7	**Potassium**	2.15	mg/L	0.50	0.18		X430179	NMS	07/26/24 13:15	
SM 2340 B	**Hardness (as CaCO3)**	158	mg/L	2.31	0.543		N/A		07/25/24 10:29	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X430114	SJN	07/25/24 10:29	
EPA 200.7	**Barium**	0.0404	mg/L	0.0020	0.0019		X430114	SJN	07/25/24 10:29	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X430114	SJN	07/25/24 10:29	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X430114	SJN	07/25/24 10:29	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X430114	SJN	07/25/24 10:29	
EPA 200.7	**Calcium**	41.4	mg/L	0.100	0.069		X430114	SJN	07/25/24 10:29	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X430114	SJN	07/25/24 10:29	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X430114	SJN	07/25/24 10:29	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X430114	SJN	07/25/24 10:29	
EPA 200.7	**Iron**	0.939	mg/L	0.100	0.056		X430114	SJN	07/25/24 10:29	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X430114	SJN	07/25/24 10:29	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X430114	SJN	07/25/24 10:29	
EPA 200.7	**Magnesium**	11.1	mg/L	0.500	0.090		X430114	SJN	07/25/24 10:29	
EPA 200.7	**Manganese**	0.174	mg/L	0.0080	0.0034		X430114	SJN	07/25/24 10:29	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X430114	SJN	07/25/24 10:29	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X430114	SJN	07/25/24 10:29	
EPA 200.7	**Potassium**	2.07	mg/L	0.50	0.18		X430114	SJN	07/25/24 10:29	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X430114	SJN	07/25/24 10:29	
EPA 200.7	**Sodium**	16.1	mg/L	0.50	0.12		X430114	SJN	07/25/24 10:29	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X430114	SJN	07/25/24 10:29	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X430114	SJN	07/25/24 10:29	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X430045	SMU	07/30/24 17:14	
EPA 200.8	**Arsenic**	0.00528	mg/L	0.00100	0.00021		X430045	SMU	07/30/24 17:14	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X430045	SMU	07/30/24 17:14	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X430045	SMU	07/30/24 17:14	
EPA 200.8	**Uranium**	0.000731	mg/L	0.000100	0.000052		X430045	SMU	07/30/24 17:14	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X430108	MAC	07/29/24 15:54	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X430068	DD	07/25/24 12:21	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X430014	DD	07/23/24 17:25	
EPA 350.1	**Ammonia as N**	0.032	mg/L	0.030	0.013		X430163	DD	07/26/24 13:11	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X430078	DD	07/23/24 16:56	
SM 2310 B	**Acidity to pH 8.3**	-121	mg/L as CaCO3	10.0			X430171	MWD	07/26/24 11:22	
SM 2320 B	**Total Alkalinity**	130	mg/L as CaCO3	1.0			X430051	MWD	07/23/24 13:05	
SM 2320 B	**Bicarbonate**	130	mg/L as CaCO3	1.0			X430051	MWD	07/23/24 13:05	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X430051	MWD	07/23/24 13:05	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X430051	MWD	07/23/24 13:05	
SM 2540 C	**Total Diss. Solids**	239	mg/L	10			X429228	TJL	07/23/24 14:15	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X429229	TJL	07/23/24 12:35	
SM 4500 H B	**pH @23.4°C**	7.2	pH Units				X430051	MWD	07/23/24 13:05	H5

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

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Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0311**
Reported: 31-Jul-24 13:22

Client Sample ID: **WCMW-6**
SVL Sample ID: **X4G0311-01 (Ground Water)**

Sampled: 18-Jul-24 13:40
Received: 19-Jul-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	2.15	mg/L	0.20	0.02		X429224	KAG	07/19/24 11:09	
EPA 300.0	**Fluoride**	2.02	mg/L	0.100	0.017		X429224	KAG	07/19/24 11:09	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X429224	KAG	07/19/24 11:09	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X429224	KAG	07/19/24 11:09	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X429224	KAG	07/19/24 11:09	
EPA 300.0	**Sulfate as SO4**	54.6	mg/L	3.00	1.80	10	X429224	KAG	07/19/24 11:25	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.79 meq/L Anion Sum: 3.90 meq/L C/A Balance: -1.55 % Calculated TDS: 209 TDS/cTDS: 1.14

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0311**
Reported: 31-Jul-24 13:22

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	X430179	26-Jul-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X430179	26-Jul-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X430179	26-Jul-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X430114	25-Jul-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X430114	25-Jul-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X430114	25-Jul-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X430114	25-Jul-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X430114	25-Jul-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X430114	25-Jul-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X430114	25-Jul-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X430114	25-Jul-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X430114	25-Jul-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X430114	25-Jul-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X430114	25-Jul-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X430114	25-Jul-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X430114	25-Jul-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X430114	25-Jul-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X430114	25-Jul-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X430114	25-Jul-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X430114	25-Jul-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X430114	25-Jul-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X430114	25-Jul-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X430114	25-Jul-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X430114	25-Jul-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X430045	30-Jul-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X430045	30-Jul-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X430045	30-Jul-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X430045	30-Jul-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X430045	30-Jul-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X430108	29-Jul-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X430068	25-Jul-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X430014	23-Jul-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X430163	26-Jul-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X430078	23-Jul-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X430171	26-Jul-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X430051	23-Jul-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X430051	23-Jul-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X430051	23-Jul-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X430051	23-Jul-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X429228	23-Jul-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X429229	23-Jul-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X429224	19-Jul-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X429224	19-Jul-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X429224	19-Jul-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X429224	19-Jul-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X429224	19-Jul-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X429224	19-Jul-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0311**
Reported: 31-Jul-24 13:22

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	21.1	20.0	106	85 - 115	X430179	26-Jul-24	
EPA 200.7	Magnesium	mg/L	21.9	20.0	110	85 - 115	X430179	26-Jul-24	
EPA 200.7	Potassium	mg/L	21.1	20.0	106	85 - 115	X430179	26-Jul-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	1.04	1.00	104	85 - 115	X430114	25-Jul-24	
EPA 200.7	Barium	mg/L	0.987	1.00	98.7	85 - 115	X430114	25-Jul-24	
EPA 200.7	Beryllium	mg/L	0.996	1.00	99.6	85 - 115	X430114	25-Jul-24	
EPA 200.7	Boron	mg/L	0.942	1.00	94.2	85 - 115	X430114	25-Jul-24	
EPA 200.7	Cadmium	mg/L	0.969	1.00	96.9	85 - 115	X430114	25-Jul-24	
EPA 200.7	Calcium	mg/L	20.0	20.0	100	85 - 115	X430114	25-Jul-24	
EPA 200.7	Chromium	mg/L	1.02	1.00	102	85 - 115	X430114	25-Jul-24	
EPA 200.7	Cobalt	mg/L	0.958	1.00	95.8	85 - 115	X430114	25-Jul-24	
EPA 200.7	Copper	mg/L	0.957	1.00	95.7	85 - 115	X430114	25-Jul-24	
EPA 200.7	Iron	mg/L	10.2	10.0	102	85 - 115	X430114	25-Jul-24	
EPA 200.7	Lead	mg/L	0.968	1.00	96.8	85 - 115	X430114	25-Jul-24	
EPA 200.7	Lithium	mg/L	0.991	1.00	99.1	85 - 115	X430114	25-Jul-24	
EPA 200.7	Magnesium	mg/L	20.7	20.0	103	85 - 115	X430114	25-Jul-24	
EPA 200.7	Manganese	mg/L	0.996	1.00	99.6	85 - 115	X430114	25-Jul-24	
EPA 200.7	Molybdenum	mg/L	0.950	1.00	95.0	85 - 115	X430114	25-Jul-24	
EPA 200.7	Nickel	mg/L	0.977	1.00	97.7	85 - 115	X430114	25-Jul-24	
EPA 200.7	Potassium	mg/L	20.4	20.0	102	85 - 115	X430114	25-Jul-24	
EPA 200.7	Silver	mg/L	0.0492	0.0500	98.5	85 - 115	X430114	25-Jul-24	
EPA 200.7	Sodium	mg/L	19.4	19.0	102	85 - 115	X430114	25-Jul-24	
EPA 200.7	Vanadium	mg/L	1.01	1.00	101	85 - 115	X430114	25-Jul-24	
EPA 200.7	Zinc	mg/L	0.993	1.00	99.3	85 - 115	X430114	25-Jul-24	
EPA 200.8	Antimony	mg/L	0.0251	0.0250	100	85 - 115	X430045	30-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0261	0.0250	104	85 - 115	X430045	30-Jul-24	
EPA 200.8	Selenium	mg/L	0.0261	0.0250	104	85 - 115	X430045	30-Jul-24	
EPA 200.8	Thallium	mg/L	0.0256	0.0250	102	85 - 115	X430045	30-Jul-24	
EPA 200.8	Uranium	mg/L	0.0249	0.0250	99.6	85 - 115	X430045	30-Jul-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00223	0.00200	111	85 - 115	X430108	29-Jul-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.107	0.100	107	90 - 110	X430068	25-Jul-24	
EPA 335.4	Cyanide (total)	mg/L	0.0990	0.100	99.0	90 - 110	X430014	23-Jul-24	
EPA 350.1	Ammonia as N	mg/L	1.01	1.00	101	90 - 110	X430163	26-Jul-24	
OIA 1677	Cyanide (WAD)	mg/L	0.106	0.100	106	90 - 110	X430078	23-Jul-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	873	884	98.7	95.4 - 104	X430171	26-Jul-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.1	9.93	102	96.4 - 105	X430051	23-Jul-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	102	99.3	102	96.4 - 105	X430051	23-Jul-24	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X429229	23-Jul-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.99	3.00	99.6	90 - 110	X429224	19-Jul-24	
EPA 300.0	Fluoride	mg/L	1.98	2.00	98.8	90 - 110	X429224	19-Jul-24	
EPA 300.0	Nitrate as N	mg/L	2.05	2.00	102	90 - 110	X429224	19-Jul-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.53	4.50	101	90 - 110	X429224	19-Jul-24	
EPA 300.0	Nitrite as N	mg/L	2.48	2.50	99.2	90 - 110	X429224	19-Jul-24	
EPA 300.0	Sulfate as SO4	mg/L	10.4	10.0	104	90 - 110	X429224	19-Jul-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0311**
Reported: 31-Jul-24 13:22

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	<10.0	<10.0	UDL	20	X430171 - X4G0254-01	26-Jul-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	41.7	41.6	0.2	20	X430051 - X4G0290-03	23-Jul-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	41.7	41.6	0.2	20	X430051 - X4G0290-03	23-Jul-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X430051 - X4G0290-03	23-Jul-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X430051 - X4G0290-03	23-Jul-24	
SM 2540 C	Total Diss. Solids	mg/L	177	191	7.6	10	X429228 - X4G0313-02	23-Jul-24	
SM 2540 C	Total Diss. Solids	mg/L	324	328	1.2	10	X429228 - X4G0316-06	23-Jul-24	
SM 2540 D	Total Susp. Solids	mg/L	7.0	8.0	13.3	10	X429229 - X4G0313-02	23-Jul-24	R2B
SM 4500 H B	pH @22.4°C	pH Units	6.9	6.8	0.9	20	X430051 - X4G0290-03	23-Jul-24	

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	44.3	20.0	112	70 - 130	X430179 - X4G0311-01	26-Jul-24	
EPA 200.7	Calcium	mg/L	54.9	33.3	20.0	108	70 - 130	X430179 - X4G0354-03	26-Jul-24	
EPA 200.7	Magnesium	mg/L	34.6	11.5	20.0	115	70 - 130	X430179 - X4G0311-01	26-Jul-24	
EPA 200.7	Magnesium	mg/L	26.4	4.13	20.0	111	70 - 130	X430179 - X4G0354-03	26-Jul-24	
EPA 200.7	Potassium	mg/L	23.8	2.15	20.0	108	70 - 130	X430179 - X4G0311-01	26-Jul-24	
EPA 200.7	Potassium	mg/L	35.4	14.0	20.0	107	70 - 130	X430179 - X4G0354-03	26-Jul-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.02	<0.080	1.00	102	70 - 130	X430114 - X4G0347-01	25-Jul-24	
EPA 200.7	Aluminum	mg/L	2.67	1.63	1.00	104	70 - 130	X430114 - X4G0347-05	25-Jul-24	
EPA 200.7	Barium	mg/L	1.03	0.0410	1.00	98.5	70 - 130	X430114 - X4G0347-01	25-Jul-24	
EPA 200.7	Barium	mg/L	1.03	0.0194	1.00	101	70 - 130	X430114 - X4G0347-05	25-Jul-24	
EPA 200.7	Beryllium	mg/L	0.992	<0.00200	1.00	99.2	70 - 130	X430114 - X4G0347-01	25-Jul-24	
EPA 200.7	Beryllium	mg/L	0.978	<0.00200	1.00	97.8	70 - 130	X430114 - X4G0347-05	25-Jul-24	
EPA 200.7	Boron	mg/L	0.947	<0.0400	1.00	93.8	70 - 130	X430114 - X4G0347-01	25-Jul-24	
EPA 200.7	Boron	mg/L	0.967	<0.0400	1.00	95.3	70 - 130	X430114 - X4G0347-05	25-Jul-24	
EPA 200.7	Cadmium	mg/L	0.970	<0.0020	1.00	97.0	70 - 130	X430114 - X4G0347-01	25-Jul-24	
EPA 200.7	Cadmium	mg/L	0.986	0.0107	1.00	97.5	70 - 130	X430114 - X4G0347-05	25-Jul-24	
EPA 200.7	Calcium	mg/L	595	579	20.0	79.2	70 - 130	X430114 - X4G0347-01	25-Jul-24	
EPA 200.7	Calcium	mg/L	894	879	20.0	76.0	70 - 130	X430114 - X4G0347-05	25-Jul-24	
EPA 200.7	Chromium	mg/L	0.995	<0.0060	1.00	99.3	70 - 130	X430114 - X4G0347-01	25-Jul-24	
EPA 200.7	Chromium	mg/L	0.964	<0.0060	1.00	96.4	70 - 130	X430114 - X4G0347-05	25-Jul-24	
EPA 200.7	Cobalt	mg/L	1.93	1.02	1.00	91.3	70 - 130	X430114 - X4G0347-01	25-Jul-24	
EPA 200.7	Cobalt	mg/L	1.54	0.640	1.00	90.3	70 - 130	X430114 - X4G0347-05	25-Jul-24	
EPA 200.7	Copper	mg/L	1.04	0.0508	1.00	98.5	70 - 130	X430114 - X4G0347-01	25-Jul-24	
EPA 200.7	Copper	mg/L	1.01	0.0427	1.00	96.4	70 - 130	X430114 - X4G0347-05	25-Jul-24	
EPA 200.7	Iron	mg/L	9.98	0.260	10.0	97.2	70 - 130	X430114 - X4G0347-01	25-Jul-24	
EPA 200.7	Iron	mg/L	9.98	<0.100	10.0	98.8	70 - 130	X430114 - X4G0347-05	25-Jul-24	
EPA 200.7	Lead	mg/L	0.925	<0.0075	1.00	92.5	70 - 130	X430114 - X4G0347-01	25-Jul-24	
EPA 200.7	Lead	mg/L	0.903	<0.0075	1.00	90.3	70 - 130	X430114 - X4G0347-05	25-Jul-24	
EPA 200.7	Lithium	mg/L	1.05	<0.040	1.00	101	70 - 130	X430114 - X4G0347-01	25-Jul-24	
EPA 200.7	Lithium	mg/L	1.05	<0.040	1.00	102	70 - 130	X430114 - X4G0347-05	25-Jul-24	
EPA 200.7	Magnesium	mg/L	25.9	6.58	20.0	96.7	70 - 130	X430114 - X4G0347-01	25-Jul-24	
EPA 200.7	Magnesium	mg/L	67.6	47.7	20.0	99.6	70 - 130	X430114 - X4G0347-05	25-Jul-24	
EPA 200.7	Manganese	mg/L	1.09	0.107	1.00	98.5	70 - 130	X430114 - X4G0347-01	25-Jul-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0311**
Reported: 31-Jul-24 13:22

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	20.8	19.9	1.00	92.2	70 - 130	X430114 - X4G0347-05	25-Jul-24	
EPA 200.7	Molybdenum	mg/L	3.06	2.09	1.00	96.2	70 - 130	X430114 - X4G0347-01	25-Jul-24	
EPA 200.7	Molybdenum	mg/L	1.93	0.964	1.00	96.1	70 - 130	X430114 - X4G0347-05	25-Jul-24	
EPA 200.7	Nickel	mg/L	0.948	0.0171	1.00	93.1	70 - 130	X430114 - X4G0347-01	25-Jul-24	
EPA 200.7	Nickel	mg/L	0.984	0.0726	1.00	91.2	70 - 130	X430114 - X4G0347-05	25-Jul-24	
EPA 200.7	Potassium	mg/L	46.8	26.5	20.0	101	70 - 130	X430114 - X4G0347-01	25-Jul-24	
EPA 200.7	Potassium	mg/L	41.3	20.0	20.0	106	70 - 130	X430114 - X4G0347-05	25-Jul-24	
EPA 200.7	Silver	mg/L	0.0493	<0.0050	0.0500	92.3	70 - 130	X430114 - X4G0347-01	25-Jul-24	
EPA 200.7	Silver	mg/L	0.0562	0.0063	0.0500	99.6	70 - 130	X430114 - X4G0347-05	25-Jul-24	
EPA 200.7	Sodium	mg/L	308	291	19.0	90.1	70 - 130	X430114 - X4G0347-01	25-Jul-24	
EPA 200.7	Sodium	mg/L	389	365	19.0	123	70 - 130	X430114 - X4G0347-05	25-Jul-24	
EPA 200.7	Vanadium	mg/L	1.00	<0.0050	1.00	100	70 - 130	X430114 - X4G0347-01	25-Jul-24	
EPA 200.7	Vanadium	mg/L	1.00	<0.0050	1.00	100	70 - 130	X430114 - X4G0347-05	25-Jul-24	
EPA 200.7	Zinc	mg/L	0.948	<0.0100	1.00	94.8	70 - 130	X430114 - X4G0347-01	25-Jul-24	
EPA 200.7	Zinc	mg/L	1.34	0.408	1.00	92.7	70 - 130	X430114 - X4G0347-05	25-Jul-24	
EPA 200.8	Antimony	mg/L	0.0257	<0.00100	0.0250	103	70 - 130	X430045 - X4G0311-01	30-Jul-24	
EPA 200.8	Antimony	mg/L	0.0286	<0.00100	0.0250	115	70 - 130	X430045 - X4G0316-08	30-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0318	0.00528	0.0250	106	70 - 130	X430045 - X4G0311-01	30-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0322	0.00314	0.0250	116	70 - 130	X430045 - X4G0316-08	30-Jul-24	
EPA 200.8	Selenium	mg/L	0.0256	<0.00100	0.0250	103	70 - 130	X430045 - X4G0311-01	30-Jul-24	
EPA 200.8	Selenium	mg/L	0.0289	<0.00100	0.0250	112	70 - 130	X430045 - X4G0316-08	30-Jul-24	
EPA 200.8	Thallium	mg/L	0.0253	<0.000200	0.0250	101	70 - 130	X430045 - X4G0311-01	30-Jul-24	
EPA 200.8	Thallium	mg/L	0.0269	<0.000200	0.0250	107	70 - 130	X430045 - X4G0316-08	30-Jul-24	
EPA 200.8	Uranium	mg/L	0.0259	0.000731	0.0250	101	70 - 130	X430045 - X4G0311-01	30-Jul-24	
EPA 200.8	Uranium	mg/L	0.0301	0.00290	0.0250	109	70 - 130	X430045 - X4G0316-08	30-Jul-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00222	<0.000200	0.00200	111	70 - 130	X430108 - X4G0313-02	29-Jul-24	
EPA 245.1	Mercury	mg/L	0.00214	<0.000200	0.00200	107	70 - 130	X430108 - X4G0366-02	29-Jul-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.118	<0.0050	0.100	118	79 - 121	X430068 - X4G0290-01	25-Jul-24	R4
EPA 335.4	Cyanide (total)	mg/L	0.0400	<0.0050	0.100	40.0	90 - 110	X430014 - X4G0238-01	23-Jul-24	M2
EPA 335.4	Cyanide (total)	mg/L	0.0823	0.0057	0.100	76.6	90 - 110	X430014 - X4G0238-02	23-Jul-24	M2
EPA 350.1	Ammonia as N	mg/L	0.974	<0.030	1.00	96.0	90 - 110	X430163 - X4G0313-03	26-Jul-24	
EPA 350.1	Ammonia as N	mg/L	1.03	0.037	1.00	99.3	90 - 110	X430163 - X4G0313-02	26-Jul-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0890	<0.0050	0.100	89.0	82 - 118	X430078 - X4G0192-02	23-Jul-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	5.17	2.15	3.00	101	90 - 110	X429224 - X4G0311-01	19-Jul-24	
EPA 300.0	Chloride	mg/L	3.32	0.33	3.00	99.5	90 - 110	X429224 - X4G0320-01	19-Jul-24	
EPA 300.0	Fluoride	mg/L	3.97	2.02	2.00	97.2	90 - 110	X429224 - X4G0311-01	19-Jul-24	
EPA 300.0	Fluoride	mg/L	1.85	<0.100	2.00	91.1	90 - 110	X429224 - X4G0320-01	19-Jul-24	
EPA 300.0	Nitrate as N	mg/L	2.00	<0.050	2.00	100	90 - 110	X429224 - X4G0311-01	19-Jul-24	
EPA 300.0	Nitrate as N	mg/L	2.09	0.071	2.00	101	90 - 110	X429224 - X4G0320-01	19-Jul-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.99	<0.100	4.00	99.7	90 - 110	X429224 - X4G0311-01	19-Jul-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.08	<0.100	4.00	100	90 - 110	X429224 - X4G0320-01	19-Jul-24	
EPA 300.0	Nitrite as N	mg/L	1.98	<0.050	2.00	99.2	90 - 110	X429224 - X4G0311-01	19-Jul-24	
EPA 300.0	Nitrite as N	mg/L	2.00	<0.050	2.00	99.9	90 - 110	X429224 - X4G0320-01	19-Jul-24	
EPA 300.0	Sulfate as SO4	mg/L	63.8	54.6	10.0	92.1	90 - 110	X429224 - X4G0311-01	19-Jul-24	
EPA 300.0	Sulfate as SO4	mg/L	12.0	1.66	10.0	104	90 - 110	X429224 - X4G0320-01	19-Jul-24	

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0311**
Reported: 31-Jul-24 13:22

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	64.5	66.8	20.0	3.0	20	101	X430179 - X4G0311-01	
EPA 200.7	Magnesium	mg/L	32.9	34.6	20.0	4.9	20	107	X430179 - X4G0311-01	
EPA 200.7	Potassium	mg/L	23.0	23.8	20.0	3.2	20	104	X430179 - X4G0311-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.981	1.02	1.00	3.6	20	98.1	X430114 - X4G0347-01	
EPA 200.7	Barium	mg/L	0.994	1.03	1.00	3.2	20	95.3	X430114 - X4G0347-01	
EPA 200.7	Beryllium	mg/L	0.952	0.992	1.00	4.1	20	95.2	X430114 - X4G0347-01	
EPA 200.7	Boron	mg/L	0.924	0.947	1.00	2.5	20	91.4	X430114 - X4G0347-01	
EPA 200.7	Cadmium	mg/L	0.938	0.970	1.00	3.3	20	93.8	X430114 - X4G0347-01	
EPA 200.7	Calcium	mg/L	601	595	20.0	1.1	20	112	X430114 - X4G0347-01	
EPA 200.7	Chromium	mg/L	0.932	0.995	1.00	6.6	20	92.9	X430114 - X4G0347-01	
EPA 200.7	Cobalt	mg/L	1.93	1.93	1.00	0.0	20	91.3	X430114 - X4G0347-01	
EPA 200.7	Copper	mg/L	0.999	1.04	1.00	3.7	20	94.8	X430114 - X4G0347-01	
EPA 200.7	Iron	mg/L	9.92	9.98	10.0	0.6	20	96.6	X430114 - X4G0347-01	
EPA 200.7	Lead	mg/L	0.886	0.925	1.00	4.2	20	88.6	X430114 - X4G0347-01	
EPA 200.7	Lithium	mg/L	0.997	1.05	1.00	4.8	20	96.0	X430114 - X4G0347-01	
EPA 200.7	Magnesium	mg/L	25.7	25.9	20.0	0.8	20	95.7	X430114 - X4G0347-01	
EPA 200.7	Manganese	mg/L	1.04	1.09	1.00	4.6	20	93.5	X430114 - X4G0347-01	
EPA 200.7	Molybdenum	mg/L	3.06	3.06	1.00	0.3	20	97.1	X430114 - X4G0347-01	
EPA 200.7	Nickel	mg/L	0.917	0.948	1.00	3.3	20	90.0	X430114 - X4G0347-01	
EPA 200.7	Potassium	mg/L	46.4	46.8	20.0	0.9	20	99.4	X430114 - X4G0347-01	
EPA 200.7	Silver	mg/L	0.0479	0.0493	0.0500	2.9	20	89.5	X430114 - X4G0347-01	
EPA 200.7	Sodium	mg/L	304	308	19.0	1.2	20	70.8	X430114 - X4G0347-01	
EPA 200.7	Vanadium	mg/L	0.952	1.00	1.00	5.4	20	95.2	X430114 - X4G0347-01	
EPA 200.7	Zinc	mg/L	0.916	0.948	1.00	3.5	20	91.6	X430114 - X4G0347-01	
EPA 200.8	Antimony	mg/L	0.0255	0.0257	0.0250	0.6	20	102	X430045 - X4G0311-01	
EPA 200.8	Arsenic	mg/L	0.0311	0.0318	0.0250	2.1	20	103	X430045 - X4G0311-01	
EPA 200.8	Selenium	mg/L	0.0269	0.0256	0.0250	5.0	20	108	X430045 - X4G0311-01	
EPA 200.8	Thallium	mg/L	0.0251	0.0253	0.0250	0.5	20	100	X430045 - X4G0311-01	
EPA 200.8	Uranium	mg/L	0.0258	0.0259	0.0250	0.1	20	100	X430045 - X4G0311-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00215	0.00222	0.00200	3.0	20	108	X430108 - X4G0313-02	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.123	0.118	0.100	4.2	11	123	X430068 - X4G0290-01	R4
EPA 335.4	Cyanide (total)	mg/L	0.0415	0.0400	0.100	3.7	20	41.5	X430014 - X4G0238-01	M2
EPA 350.1	Ammonia as N	mg/L	0.989	0.974	1.00	1.5	20	97.4	X430163 - X4G0313-03	
OIA 1677	Cyanide (WAD)	mg/L	0.0950	0.0890	0.100	6.5	11	95.0	X430078 - X4G0192-02	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	5.23	5.17	3.00	1.0	20	102	X429224 - X4G0311-01	
EPA 300.0	Fluoride	mg/L	4.00	3.97	2.00	0.8	20	98.7	X429224 - X4G0311-01	
EPA 300.0	Nitrate as N	mg/L	2.04	2.00	2.00	1.9	20	102	X429224 - X4G0311-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.07	3.99	4.00	2.0	20	102	X429224 - X4G0311-01	
EPA 300.0	Nitrite as N	mg/L	2.03	1.98	2.00	2.2	20	101	X429224 - X4G0311-01	
EPA 300.0	Sulfate as SO4	mg/L	64.1	63.8	10.0	0.6	20	95.9	X429224 - X4G0311-01	

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4G0311**
Victor, CO 80860	Reported: 31-Jul-24 13:22

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.
R2B	RPD exceeded the laboratory acceptance limit.
R4	MS/MSD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4H0159**
Victor, CO 80860	Reported: 26-Aug-24 12:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
WCMW-3	X4H0159-01	Ground Water	08-Aug-24 09:40	TR	09-Aug-2024	
VIN-2A	X4H0159-02	Ground Water	08-Aug-24 11:35	TR	09-Aug-2024	

Sample preparation is defined by the client as per their Data Quality Objectives.
This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.
Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.
The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.
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Case Narrative: X4H0159

The state of origin only accredits for drinking water analyses.

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

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Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0159**
Reported: 26-Aug-24 12:53

Client Sample ID: **WCMW-3**
SVL Sample ID: **X4H0159-01 (Ground Water)**

Sampled: 08-Aug-24 09:40
Received: 09-Aug-24
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**	58.8	mg/L	0.100	0.069		X433074	SJN	08/15/24 12:46	
EPA 200.7	**Magnesium**	14.2	mg/L	0.500	0.090		X433074	SJN	08/15/24 12:46	
EPA 200.7	**Potassium**	1.54	mg/L	0.50	0.18		X433074	SJN	08/15/24 12:46	
SM 2340 B	**Hardness (as CaCO3)**	205	mg/L	2.31	0.543		N/A		08/19/24 15:28	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X433056	NMS	08/19/24 15:28	
EPA 200.7	**Barium**	0.0713	mg/L	0.0020	0.0019		X433056	NMS	08/19/24 15:28	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X433056	NMS	08/19/24 15:28	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X433056	NMS	08/19/24 15:28	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X433056	NMS	08/19/24 15:28	
EPA 200.7	**Calcium**	65.2	mg/L	0.100	0.069		X433056	NMS	08/19/24 15:28	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X433056	NMS	08/19/24 15:28	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X433056	NMS	08/19/24 15:28	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X433056	NMS	08/19/24 15:28	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X433056	NMS	08/19/24 15:28	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X433056	NMS	08/19/24 15:28	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X433056	NMS	08/19/24 15:28	
EPA 200.7	**Magnesium**	16.7	mg/L	0.500	0.090		X433056	NMS	08/19/24 15:28	
EPA 200.7	**Manganese**	0.0375	mg/L	0.0080	0.0034		X433056	NMS	08/19/24 15:28	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X433056	NMS	08/19/24 15:28	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X433056	NMS	08/19/24 15:28	
EPA 200.7	**Potassium**	1.86	mg/L	0.50	0.18		X433056	NMS	08/19/24 15:28	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X433056	NMS	08/19/24 15:28	
EPA 200.7	**Sodium**	11.3	mg/L	0.50	0.12		X433056	NMS	08/19/24 15:28	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X433056	NMS	08/19/24 15:28	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X433056	NMS	08/19/24 15:28	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X433030	SMU	08/21/24 19:35	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X433030	SMU	08/21/24 19:35	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X433030	SMU	08/21/24 19:35	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X433030	SMU	08/21/24 19:35	
EPA 200.8	**Uranium**	0.00619	mg/L	0.000100	0.000052		X433030	SMU	08/21/24 19:35	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X433047	MAC	08/23/24 20:39	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X433108	DD	08/14/24 12:49	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X433008	DD	08/13/24 10:45	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X433043	DD	08/14/24 12:54	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X433190	DD	08/16/24 14:12	
SM 2310 B	**Acidity to pH 8.3**	-267	mg/L as CaCO3	10.0			X434005	MWD	08/19/24 09:11	
SM 2320 B	**Total Alkalinity**	214	mg/L as CaCO3	1.0			X433006	MWD	08/12/24 10:09	
SM 2320 B	**Bicarbonate**	214	mg/L as CaCO3	1.0			X433006	MWD	08/12/24 10:09	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X433006	MWD	08/12/24 10:09	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X433006	MWD	08/12/24 10:09	
SM 2540 C	**Total Diss. Solids**	232	mg/L	10			X432232	TJL	08/13/24 13:50	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X432233	TJL	08/13/24 13:35	
SM 4500 H B	**pH @20.2°C**	7.9	pH Units				X433006	MWD	08/12/24 10:09	H5

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0159**
Reported: 26-Aug-24 12:53

Client Sample ID: **WCMW-3**
SVL Sample ID: **X4H0159-01 (Ground Water)**

Sampled: 08-Aug-24 09:40
Received: 09-Aug-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	1.20	mg/L	0.20	0.02		X432231	RS	08/09/24 12:08	
EPA 300.0	**Fluoride**	0.787	mg/L	0.100	0.017		X432231	RS	08/09/24 12:08	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X432231	RS	08/09/24 12:08	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X432231	RS	08/09/24 12:08	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X432231	RS	08/09/24 12:08	
EPA 300.0	**Sulfate as SO4**	25.0	mg/L	0.30	0.18		X432231	RS	08/09/24 12:08	

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.65 meq/L Anion Sum: 4.87 meq/L C/A Balance: -2.37 % Calculated TDS: 246 TDS/cTDS: 0.94

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

Tawnya M. Hall
Project Manager Assistant

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0159**
Reported: 26-Aug-24 12:53

Client Sample ID: **VIN-2A**
SVL Sample ID: **X4H0159-02 (Ground Water)**

Sampled: 08-Aug-24 11:35
Received: 09-Aug-24
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**	203	mg/L	0.100	0.069		X433074	SJN	08/15/24 12:49	
EPA 200.7	**Magnesium**	50.6	mg/L	0.500	0.090		X433074	SJN	08/15/24 12:49	
EPA 200.7	**Potassium**	2.12	mg/L	0.50	0.18		X433074	SJN	08/15/24 12:49	
SM 2340 B	**Hardness (as CaCO3)**	785	mg/L	2.31	0.543		N/A		08/15/24 12:49	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X433056	NMS	08/19/24 15:31	
EPA 200.7	**Barium**	0.0087	mg/L	0.0020	0.0019		X433056	NMS	08/19/24 15:31	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X433056	NMS	08/19/24 15:31	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X433056	NMS	08/19/24 15:31	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X433056	NMS	08/19/24 15:31	
EPA 200.7	**Calcium**	221	mg/L	0.100	0.069		X433056	NMS	08/19/24 15:31	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X433056	NMS	08/19/24 15:31	
EPA 200.7	**Cobalt**	0.0086	mg/L	0.0060	0.0046		X433056	NMS	08/19/24 15:31	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X433056	NMS	08/19/24 15:31	
EPA 200.7	**Iron**	0.123	mg/L	0.100	0.056		X433056	NMS	08/19/24 15:31	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X433056	NMS	08/19/24 15:31	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X433056	NMS	08/19/24 15:31	
EPA 200.7	**Magnesium**	56.7	mg/L	0.500	0.090		X433056	NMS	08/19/24 15:31	
EPA 200.7	**Manganese**	0.0587	mg/L	0.0080	0.0034		X433056	NMS	08/19/24 15:31	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X433056	NMS	08/19/24 15:31	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X433056	NMS	08/19/24 15:31	
EPA 200.7	**Potassium**	1.81	mg/L	0.50	0.18		X433056	NMS	08/19/24 15:31	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X433056	NMS	08/19/24 15:31	
EPA 200.7	**Sodium**	24.4	mg/L	0.50	0.12		X433056	NMS	08/19/24 15:31	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X433056	NMS	08/19/24 15:31	
EPA 200.7	**Zinc**	2.30	mg/L	0.0100	0.0054		X433056	NMS	08/19/24 15:31	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X433030	SMU	08/21/24 19:40	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X433030	SMU	08/21/24 19:40	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X433030	SMU	08/21/24 19:40	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X433030	SMU	08/21/24 19:40	
EPA 200.8	**Uranium**	0.00246	mg/L	0.000100	0.000052		X433030	SMU	08/21/24 19:40	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X433047	MAC	08/23/24 20:41	
Classical Chemistry Parameters										
ASTM D7237	**Cyanide (free) @ pH 6 @22.0°C**	0.0250	mg/L	0.0050	0.0048		X433108	DD	08/14/24 12:57	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X433008	DD	08/13/24 10:48	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X433043	DD	08/14/24 12:56	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X433190	DD	08/16/24 14:14	
SM 2310 B	**Acidity to pH 8.3**	-103	mg/L as CaCO3	10.0			X434005	MWD	08/19/24 09:11	
SM 2320 B	**Total Alkalinity**	102	mg/L as CaCO3	1.0			X433006	MWD	08/12/24 10:15	
SM 2320 B	**Bicarbonate**	102	mg/L as CaCO3	1.0			X433006	MWD	08/12/24 10:15	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X433006	MWD	08/12/24 10:15	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X433006	MWD	08/12/24 10:15	
SM 2540 C	**Total Diss. Solids**	1200	mg/L	10			X432232	TJL	08/13/24 13:50	
SM 2540 D	**Total Susp. Solids**	45.0	mg/L	5.0			X432233	TJL	08/13/24 13:35	
SM 4500 H B	**pH @20.3°C**	7.7	pH Units				X433006	MWD	08/12/24 10:15	H5

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Post Office Box 191
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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0159**
Reported: 26-Aug-24 12:53

Client Sample ID: **VIN-2A**
SVL Sample ID: **X4H0159-02 (Ground Water)**

Sampled: 08-Aug-24 11:35
Received: 09-Aug-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	7.59	mg/L	0.20	0.02		X432231	RS	08/09/24 13:47	
EPA 300.0	**Fluoride**	0.214	mg/L	0.100	0.017		X432231	RS	08/09/24 13:47	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X432231	RS	08/09/24 13:47	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X432231	RS	08/09/24 13:47	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X432231	RS	08/09/24 13:47	
EPA 300.0	**Sulfate as SO4**	663	mg/L	15.0	9.00	50	X432231	RS	08/09/24 16:40	

Cation/Anion Balance and TDS Ratios

Cation Sum: 15.5 meq/L Anion Sum: 16.1 meq/L C/A Balance: -1.84 % Calculated TDS: 1024 TDS/cTDS: 1.17

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

Tawnya M. Hall
Project Manager Assistant

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Newmont - Cripple Creek & Victor
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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0159**
Reported: 26-Aug-24 12:53

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X433074	15-Aug-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X433074	15-Aug-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X433074	15-Aug-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X433056	19-Aug-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X433056	19-Aug-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X433056	19-Aug-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X433056	19-Aug-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X433056	19-Aug-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X433056	19-Aug-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X433056	19-Aug-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X433056	19-Aug-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X433056	19-Aug-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X433056	19-Aug-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X433056	19-Aug-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X433056	19-Aug-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X433056	19-Aug-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X433056	19-Aug-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X433056	19-Aug-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X433056	19-Aug-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X433056	19-Aug-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X433056	19-Aug-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X433056	19-Aug-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X433056	19-Aug-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X433056	19-Aug-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X433030	21-Aug-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X433030	21-Aug-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X433030	21-Aug-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X433030	21-Aug-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X433030	21-Aug-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X433047	23-Aug-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X433108	14-Aug-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X433008	13-Aug-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X433043	14-Aug-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X433190	16-Aug-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X434005	19-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X433006	12-Aug-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X433006	12-Aug-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X433006	12-Aug-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X433006	12-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X432232	13-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X432233	13-Aug-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X432231	09-Aug-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X432231	09-Aug-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X432231	09-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X432231	09-Aug-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X432231	09-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X432231	09-Aug-24	

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Post Office Box 191
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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0159**
Reported: 26-Aug-24 12:53

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	18.8	20.0	94	85 - 115	X433074	15-Aug-24	
EPA 200.7	Magnesium	mg/L	18.7	20.0	93.6	85 - 115	X433074	15-Aug-24	
EPA 200.7	Potassium	mg/L	18.9	20.0	94.5	85 - 115	X433074	15-Aug-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.933	1.00	93.3	85 - 115	X433056	19-Aug-24	
EPA 200.7	Barium	mg/L	0.957	1.00	95.7	85 - 115	X433056	19-Aug-24	
EPA 200.7	Beryllium	mg/L	0.962	1.00	96.2	85 - 115	X433056	19-Aug-24	
EPA 200.7	Boron	mg/L	0.966	1.00	96.6	85 - 115	X433056	19-Aug-24	
EPA 200.7	Cadmium	mg/L	0.988	1.00	98.8	85 - 115	X433056	19-Aug-24	
EPA 200.7	Calcium	mg/L	19.0	20.0	94.9	85 - 115	X433056	19-Aug-24	
EPA 200.7	Chromium	mg/L	0.975	1.00	97.5	85 - 115	X433056	19-Aug-24	
EPA 200.7	Cobalt	mg/L	0.971	1.00	97.1	85 - 115	X433056	19-Aug-24	
EPA 200.7	Copper	mg/L	0.946	1.00	94.6	85 - 115	X433056	19-Aug-24	
EPA 200.7	Iron	mg/L	9.58	10.0	95.8	85 - 115	X433056	19-Aug-24	
EPA 200.7	Lead	mg/L	0.979	1.00	97.9	85 - 115	X433056	19-Aug-24	
EPA 200.7	Lithium	mg/L	0.947	1.00	94.7	85 - 115	X433056	19-Aug-24	
EPA 200.7	Magnesium	mg/L	18.9	20.0	94.3	85 - 115	X433056	19-Aug-24	
EPA 200.7	Manganese	mg/L	0.946	1.00	94.6	85 - 115	X433056	19-Aug-24	
EPA 200.7	Molybdenum	mg/L	0.968	1.00	96.8	85 - 115	X433056	19-Aug-24	
EPA 200.7	Nickel	mg/L	0.986	1.00	98.6	85 - 115	X433056	19-Aug-24	
EPA 200.7	Potassium	mg/L	19.5	20.0	97.6	85 - 115	X433056	19-Aug-24	
EPA 200.7	Silver	mg/L	0.0495	0.0500	99.0	85 - 115	X433056	19-Aug-24	
EPA 200.7	Sodium	mg/L	17.7	19.0	93.3	85 - 115	X433056	19-Aug-24	
EPA 200.7	Vanadium	mg/L	0.964	1.00	96.4	85 - 115	X433056	19-Aug-24	
EPA 200.7	Zinc	mg/L	0.990	1.00	99.0	85 - 115	X433056	19-Aug-24	
EPA 200.8	Antimony	mg/L	0.0233	0.0250	93.3	85 - 115	X433030	21-Aug-24	
EPA 200.8	Arsenic	mg/L	0.0240	0.0250	96.1	85 - 115	X433030	21-Aug-24	
EPA 200.8	Selenium	mg/L	0.0239	0.0250	95.5	85 - 115	X433030	21-Aug-24	
EPA 200.8	Thallium	mg/L	0.0241	0.0250	96.2	85 - 115	X433030	21-Aug-24	
EPA 200.8	Uranium	mg/L	0.0239	0.0250	95.8	85 - 115	X433030	21-Aug-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00191	0.00200	95.5	85 - 115	X433047	23-Aug-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0980	0.100	98.0	90 - 110	X433108	14-Aug-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X433008	13-Aug-24	
EPA 350.1	Ammonia as N	mg/L	1.04	1.00	104	90 - 110	X433043	14-Aug-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0970	0.100	97.0	90 - 110	X433190	16-Aug-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	897	884	101	95.4 - 104	X434005	19-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	102	96.4 - 105	X433006	12-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X432233	13-Aug-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.06	3.00	102	90 - 110	X432231	09-Aug-24	
EPA 300.0	Fluoride	mg/L	2.02	2.00	101	90 - 110	X432231	09-Aug-24	
EPA 300.0	Nitrate as N	mg/L	2.01	2.00	101	90 - 110	X432231	09-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.56	4.50	101	90 - 110	X432231	09-Aug-24	
EPA 300.0	Nitrite as N	mg/L	2.54	2.50	102	90 - 110	X432231	09-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	10.2	10.0	102	90 - 110	X432231	09-Aug-24	

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Newmont - Cripple Creek & Victor
Post Office Box 191
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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0159**
Reported: 26-Aug-24 12:53

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0	<10.0	UDL	20	X434005 - X4H0086-01	19-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	55.3	55.1	0.4	20	X433006 - X4H0086-03	12-Aug-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	55.3	55.1	0.4	20	X433006 - X4H0086-03	12-Aug-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X433006 - X4H0086-03	12-Aug-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X433006 - X4H0086-03	12-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	235	232	1.3	10	X432232 - X4H0159-01	13-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	357	361	1.1	10	X432232 - X4H0160-01	13-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X432233 - X4H0159-01	13-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X432233 - X4H0160-01	13-Aug-24	
SM 4500 H B	pH @19.1°C	pH Units	6.6	6.6	0.8	20	X433006 - X4H0086-03	12-Aug-24	

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	42.2	22.5	20.0	98	70 - 130	X433074 - X4H0085-02	15-Aug-24	
EPA 200.7	Calcium	mg/L	33.9	13.5	20.0	102	70 - 130	X433074 - X4H0160-08	15-Aug-24	
EPA 200.7	Magnesium	mg/L	23.7	4.38	20.0	96.4	70 - 130	X433074 - X4H0085-02	15-Aug-24	
EPA 200.7	Magnesium	mg/L	20.7	1.09	20.0	98.3	70 - 130	X433074 - X4H0160-08	15-Aug-24	
EPA 200.7	Potassium	mg/L	21.3	1.86	20.0	97.3	70 - 130	X433074 - X4H0085-02	15-Aug-24	
EPA 200.7	Potassium	mg/L	23.1	3.13	20.0	99.8	70 - 130	X433074 - X4H0160-08	15-Aug-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.965	<0.080	1.00	96.5	70 - 130	X433056 - X4H0091-01	19-Aug-24	
EPA 200.7	Aluminum	mg/L	0.970	<0.080	1.00	97.0	70 - 130	X433056 - X4H0173-01	19-Aug-24	
EPA 200.7	Barium	mg/L	1.11	0.150	1.00	95.9	70 - 130	X433056 - X4H0091-01	19-Aug-24	
EPA 200.7	Barium	mg/L	1.05	0.0506	1.00	100	70 - 130	X433056 - X4H0173-01	19-Aug-24	
EPA 200.7	Beryllium	mg/L	0.970	<0.00200	1.00	97.0	70 - 130	X433056 - X4H0091-01	19-Aug-24	
EPA 200.7	Beryllium	mg/L	0.994	<0.00200	1.00	99.4	70 - 130	X433056 - X4H0173-01	19-Aug-24	
EPA 200.7	Boron	mg/L	0.979	<0.0400	1.00	94.8	70 - 130	X433056 - X4H0091-01	19-Aug-24	
EPA 200.7	Boron	mg/L	1.06	0.0470	1.00	101	70 - 130	X433056 - X4H0173-01	19-Aug-24	
EPA 200.7	Cadmium	mg/L	0.956	<0.0020	1.00	95.6	70 - 130	X433056 - X4H0091-01	19-Aug-24	
EPA 200.7	Cadmium	mg/L	1.03	0.0048	1.00	103	70 - 130	X433056 - X4H0173-01	19-Aug-24	
EPA 200.7	Calcium	mg/L	95.6	82.7	20.0	0.30R>S	70 - 130	X433056 - X4H0091-01	19-Aug-24	M3
EPA 200.7	Calcium	mg/L	281	283	20.0	0.30R>S	70 - 130	X433056 - X4H0173-01	19-Aug-24	M3
EPA 200.7	Chromium	mg/L	0.936	<0.0060	1.00	93.6	70 - 130	X433056 - X4H0091-01	19-Aug-24	
EPA 200.7	Chromium	mg/L	0.979	<0.0060	1.00	97.9	70 - 130	X433056 - X4H0173-01	19-Aug-24	
EPA 200.7	Cobalt	mg/L	0.923	<0.0060	1.00	92.3	70 - 130	X433056 - X4H0091-01	19-Aug-24	
EPA 200.7	Cobalt	mg/L	0.971	<0.0060	1.00	97.1	70 - 130	X433056 - X4H0173-01	19-Aug-24	
EPA 200.7	Copper	mg/L	0.914	<0.0100	1.00	91.4	70 - 130	X433056 - X4H0091-01	19-Aug-24	
EPA 200.7	Copper	mg/L	0.976	<0.0100	1.00	97.6	70 - 130	X433056 - X4H0173-01	19-Aug-24	
EPA 200.7	Iron	mg/L	9.61	<0.100	10.0	96.1	70 - 130	X433056 - X4H0091-01	19-Aug-24	
EPA 200.7	Iron	mg/L	9.80	<0.100	10.0	98.0	70 - 130	X433056 - X4H0173-01	19-Aug-24	
EPA 200.7	Lead	mg/L	0.938	<0.0075	1.00	93.8	70 - 130	X433056 - X4H0091-01	19-Aug-24	
EPA 200.7	Lead	mg/L	0.986	<0.0075	1.00	98.6	70 - 130	X433056 - X4H0173-01	19-Aug-24	
EPA 200.7	Lithium	mg/L	0.979	<0.040	1.00	97.9	70 - 130	X433056 - X4H0091-01	19-Aug-24	
EPA 200.7	Lithium	mg/L	1.05	<0.040	1.00	103	70 - 130	X433056 - X4H0173-01	19-Aug-24	
EPA 200.7	Magnesium	mg/L	32.6	14.5	20.0	90.2	70 - 130	X433056 - X4H0091-01	19-Aug-24	
EPA 200.7	Magnesium	mg/L	77.3	62.9	20.0	72.0	70 - 130	X433056 - X4H0173-01	19-Aug-24	

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Newmont - Cripple Creek & Victor
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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0159**
Reported: 26-Aug-24 12:53

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Manganese	mg/L	0.953	<0.0080	1.00	94.6	70 - 130	X433056 - X4H0091-01	19-Aug-24	
EPA 200.7	Manganese	mg/L	0.982	<0.0080	1.00	97.7	70 - 130	X433056 - X4H0173-01	19-Aug-24	
EPA 200.7	Molybdenum	mg/L	1.04	0.114	1.00	92.9	70 - 130	X433056 - X4H0091-01	19-Aug-24	
EPA 200.7	Molybdenum	mg/L	1.03	0.0261	1.00	99.9	70 - 130	X433056 - X4H0173-01	19-Aug-24	
EPA 200.7	Nickel	mg/L	0.935	<0.0100	1.00	93.5	70 - 130	X433056 - X4H0091-01	19-Aug-24	
EPA 200.7	Nickel	mg/L	0.980	<0.0100	1.00	98.0	70 - 130	X433056 - X4H0173-01	19-Aug-24	
EPA 200.7	Potassium	mg/L	22.0	2.30	20.0	98.7	70 - 130	X433056 - X4H0091-01	19-Aug-24	
EPA 200.7	Potassium	mg/L	25.7	5.05	20.0	103	70 - 130	X433056 - X4H0173-01	19-Aug-24	
EPA 200.7	Silver	mg/L	0.0469	<0.0050	0.0500	93.8	70 - 130	X433056 - X4H0091-01	19-Aug-24	
EPA 200.7	Silver	mg/L	0.0461	<0.0050	0.0500	92.3	70 - 130	X433056 - X4H0173-01	19-Aug-24	
EPA 200.7	Sodium	mg/L	39.3	22.8	19.0	87.0	70 - 130	X433056 - X4H0091-01	19-Aug-24	
EPA 200.7	Sodium	mg/L	67.5	51.5	19.0	84.4	70 - 130	X433056 - X4H0173-01	19-Aug-24	
EPA 200.7	Vanadium	mg/L	0.933	<0.0050	1.00	93.0	70 - 130	X433056 - X4H0091-01	19-Aug-24	
EPA 200.7	Vanadium	mg/L	0.977	<0.0050	1.00	97.7	70 - 130	X433056 - X4H0173-01	19-Aug-24	
EPA 200.7	Zinc	mg/L	0.947	<0.0100	1.00	94.7	70 - 130	X433056 - X4H0091-01	19-Aug-24	
EPA 200.7	Zinc	mg/L	1.24	0.271	1.00	96.9	70 - 130	X433056 - X4H0173-01	19-Aug-24	
EPA 200.8	Antimony	mg/L	0.0246	<0.00100	0.0250	98.6	70 - 130	X433030 - X4H0092-01	21-Aug-24	
EPA 200.8	Antimony	mg/L	0.0243	<0.00100	0.0250	97.4	70 - 130	X433030 - X4H0159-01	21-Aug-24	
EPA 200.8	Arsenic	mg/L	0.0241	<0.00100	0.0250	96.5	70 - 130	X433030 - X4H0092-01	21-Aug-24	
EPA 200.8	Arsenic	mg/L	0.0253	<0.00100	0.0250	101	70 - 130	X433030 - X4H0159-01	21-Aug-24	
EPA 200.8	Selenium	mg/L	0.0234	<0.00100	0.0250	91.3	70 - 130	X433030 - X4H0092-01	21-Aug-24	
EPA 200.8	Selenium	mg/L	0.0269	<0.00100	0.0250	108	70 - 130	X433030 - X4H0159-01	21-Aug-24	
EPA 200.8	Thallium	mg/L	0.0230	<0.000200	0.0250	92.0	70 - 130	X433030 - X4H0092-01	21-Aug-24	
EPA 200.8	Thallium	mg/L	0.0233	<0.000200	0.0250	93.3	70 - 130	X433030 - X4H0159-01	21-Aug-24	
EPA 200.8	Uranium	mg/L	0.0342	0.0105	0.0250	94.7	70 - 130	X433030 - X4H0092-01	21-Aug-24	
EPA 200.8	Uranium	mg/L	0.0295	0.00619	0.0250	93.2	70 - 130	X433030 - X4H0159-01	21-Aug-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00192	<0.000200	0.00200	95.8	70 - 130	X433047 - X4H0086-02	23-Aug-24	
EPA 245.1	Mercury	mg/L	0.00196	<0.000200	0.00200	97.9	70 - 130	X433047 - X4H0207-02	23-Aug-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.107	<0.0050	0.100	107	79 - 121	X433108 - X4H0007-01	14-Aug-24	
EPA 335.4	Cyanide (total)	mg/L	0.103	<0.0050	0.100	103	90 - 110	X433008 - X4H0007-01	13-Aug-24	
EPA 335.4	Cyanide (total)	mg/L	0.102	<0.0050	0.100	102	90 - 110	X433008 - X4H0007-02	13-Aug-24	
EPA 350.1	Ammonia as N	mg/L	0.944	<0.030	1.00	94.4	90 - 110	X433043 - X4H0140-01	14-Aug-24	
OIA 1677	Cyanide (WAD)	mg/L	0.103	<0.0050	0.100	101	82 - 118	X433190 - X4H0064-01	16-Aug-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.33	1.20	3.00	105	90 - 110	X432231 - X4H0159-01	09-Aug-24	
EPA 300.0	Fluoride	mg/L	2.72	0.787	2.00	96.7	90 - 110	X432231 - X4H0159-01	09-Aug-24	
EPA 300.0	Nitrate as N	mg/L	2.04	<0.050	2.00	102	90 - 110	X432231 - X4H0159-01	09-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.10	<0.100	4.00	103	90 - 110	X432231 - X4H0159-01	09-Aug-24	
EPA 300.0	Nitrite as N	mg/L	2.06	<0.050	2.00	103	90 - 110	X432231 - X4H0159-01	09-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	35.2	25.0	10.0	102	90 - 110	X432231 - X4H0159-01	09-Aug-24	

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Newmont - Cripple Creek & Victor
Post Office Box 191
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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0159**
Reported: 26-Aug-24 12:53

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	39.2	42.2	20.0	7.0	20	83	X433074 - X4H0085-02	
EPA 200.7	Magnesium	mg/L	22.1	23.7	20.0	6.7	20	88.8	X433074 - X4H0085-02	
EPA 200.7	Potassium	mg/L	19.8	21.3	20.0	7.6	20	89.5	X433074 - X4H0085-02	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.06	0.965	1.00	9.8	20	106	X433056 - X4H0091-01	
EPA 200.7	Barium	mg/L	1.24	1.11	1.00	11.4	20	109	X433056 - X4H0091-01	
EPA 200.7	Beryllium	mg/L	1.10	0.970	1.00	12.9	20	110	X433056 - X4H0091-01	
EPA 200.7	Boron	mg/L	1.07	0.979	1.00	9.3	20	104	X433056 - X4H0091-01	
EPA 200.7	Cadmium	mg/L	1.06	0.956	1.00	9.9	20	106	X433056 - X4H0091-01	
EPA 200.7	Calcium	mg/L	106	95.6	20.0	10.2	20	116	X433056 - X4H0091-01	
EPA 200.7	Chromium	mg/L	1.05	0.936	1.00	11.4	20	105	X433056 - X4H0091-01	
EPA 200.7	Cobalt	mg/L	1.02	0.923	1.00	9.9	20	102	X433056 - X4H0091-01	
EPA 200.7	Copper	mg/L	1.03	0.914	1.00	11.8	20	103	X433056 - X4H0091-01	
EPA 200.7	Iron	mg/L	10.8	9.61	10.0	11.7	20	108	X433056 - X4H0091-01	
EPA 200.7	Lead	mg/L	1.04	0.938	1.00	10.3	20	104	X433056 - X4H0091-01	
EPA 200.7	Lithium	mg/L	1.11	0.979	1.00	12.5	20	111	X433056 - X4H0091-01	
EPA 200.7	Magnesium	mg/L	36.2	32.6	20.0	10.6	20	108	X433056 - X4H0091-01	
EPA 200.7	Manganese	mg/L	1.08	0.953	1.00	12.7	20	108	X433056 - X4H0091-01	
EPA 200.7	Molybdenum	mg/L	1.15	1.04	1.00	9.5	20	103	X433056 - X4H0091-01	
EPA 200.7	Nickel	mg/L	1.03	0.935	1.00	10.0	20	103	X433056 - X4H0091-01	
EPA 200.7	Potassium	mg/L	24.6	22.0	20.0	11.1	20	112	X433056 - X4H0091-01	
EPA 200.7	Silver	mg/L	0.0512	0.0469	0.0500	8.7	20	102	X433056 - X4H0091-01	
EPA 200.7	Sodium	mg/L	44.0	39.3	19.0	11.2	20	111	X433056 - X4H0091-01	
EPA 200.7	Vanadium	mg/L	1.05	0.933	1.00	11.5	20	104	X433056 - X4H0091-01	
EPA 200.7	Zinc	mg/L	1.05	0.947	1.00	10.1	20	105	X433056 - X4H0091-01	
EPA 200.8	Antimony	mg/L	0.0252	0.0246	0.0250	2.3	20	101	X433030 - X4H0092-01	
EPA 200.8	Arsenic	mg/L	0.0247	0.0241	0.0250	2.5	20	98.9	X433030 - X4H0092-01	
EPA 200.8	Selenium	mg/L	0.0259	0.0234	0.0250	10.2	20	101	X433030 - X4H0092-01	
EPA 200.8	Thallium	mg/L	0.0235	0.0230	0.0250	2.3	20	94.1	X433030 - X4H0092-01	
EPA 200.8	Uranium	mg/L	0.0348	0.0342	0.0250	1.9	20	97.4	X433030 - X4H0092-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00194	0.00192	0.00200	1.1	20	96.9	X433047 - X4H0086-02	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.110	0.107	0.100	2.8	11	110	X433108 - X4H0007-01	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.103	0.100	0.1	20	103	X433008 - X4H0007-01	
EPA 350.1	Ammonia as N	mg/L	0.946	0.944	1.00	0.3	20	94.6	X433043 - X4H0140-01	
OIA 1677	Cyanide (WAD)	mg/L	0.101	0.103	0.100	2.0	11	99.0	X433190 - X4H0064-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.36	4.33	3.00	0.6	20	105	X432231 - X4H0159-01	
EPA 300.0	Fluoride	mg/L	2.75	2.72	2.00	0.9	20	98.0	X432231 - X4H0159-01	
EPA 300.0	Nitrate as N	mg/L	2.06	2.04	2.00	0.8	20	103	X432231 - X4H0159-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.16	4.10	4.00	1.3	20	104	X432231 - X4H0159-01	
EPA 300.0	Nitrite as N	mg/L	2.10	2.06	2.00	1.8	20	105	X432231 - X4H0159-01	
EPA 300.0	Sulfate as SO4	mg/L	35.4	35.2	10.0	0.4	20	104	X432231 - X4H0159-01	

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4H0159**
Victor, CO 80860	Reported: 26-Aug-24 12:53

Notes and Definitions

H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
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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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4H0407**
Victor, CO 80860	Reported: 09-Sep-24 09:58

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
CRMW-3A	X4H0407-01	Ground Water	21-Aug-24 12:51	TR	22-Aug-2024	
CRMW-3C	X4H0407-02	Ground Water	21-Aug-24 13:14	TR	22-Aug-2024	

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: X4H0407

The state of origin only accredits for drinking water analyses.

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

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Newmont - Cripple Creek & Victor
Post Office Box 191
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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0407**
Reported: 09-Sep-24 09:58

Client Sample ID: **CRMW-3A**
SVL Sample ID: **X4H0407-01 (Ground Water)**

Sampled: 21-Aug-24 12:51
Received: 22-Aug-24
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**	300	mg/L	0.100	0.069		X435012	SJN	08/28/24 16:20	
EPA 200.7	**Magnesium**	86.5	mg/L	0.500	0.090		X435012	SJN	08/28/24 16:20	
EPA 200.7	**Potassium**	10.6	mg/L	0.50	0.18		X435012	SJN	08/28/24 16:20	
SM 2340 B	**Hardness (as CaCO3)**	1100	mg/L	2.31	0.543		N/A		09/04/24 22:19	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X435022	SJN	09/04/24 22:19	
EPA 200.7	**Barium**	0.0275	mg/L	0.0020	0.0019		X435022	SJN	09/04/24 23:16	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X435022	SJN	09/04/24 22:19	
EPA 200.7	**Boron**	0.111	mg/L	0.0400	0.0078		X435022	SJN	09/04/24 22:19	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X435022	SJN	09/04/24 22:19	
EPA 200.7	**Calcium**	301	mg/L	0.100	0.069		X435022	SJN	09/04/24 22:19	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X435022	SJN	09/04/24 22:19	
EPA 200.7	**Cobalt**	0.0238	mg/L	0.0060	0.0046		X435022	SJN	09/04/24 22:19	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X435022	SJN	09/04/24 22:19	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X435022	SJN	09/04/24 22:19	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X435022	SJN	09/04/24 23:16	
EPA 200.7	**Lithium**	0.125	mg/L	0.040	0.025		X435022	SJN	09/04/24 22:19	
EPA 200.7	**Magnesium**	82.6	mg/L	0.500	0.090		X435022	SJN	09/04/24 22:19	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X435022	SJN	09/04/24 22:19	
EPA 200.7	**Molybdenum**	0.0631	mg/L	0.0080	0.0034		X435022	SJN	09/04/24 22:19	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X435022	SJN	09/04/24 22:19	
EPA 200.7	**Potassium**	10.5	mg/L	0.50	0.18		X435022	SJN	09/04/24 22:19	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X435022	SJN	09/04/24 22:19	
EPA 200.7	**Sodium**	97.3	mg/L	0.50	0.12		X435022	SJN	09/04/24 22:19	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X435022	SJN	09/04/24 22:19	
EPA 200.7	**Zinc**	0.0118	mg/L	0.0100	0.0054		X435022	SJN	09/04/24 22:19	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X435071	SMU	09/04/24 22:04	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X435071	SMU	09/04/24 22:04	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X435071	SMU	09/04/24 22:04	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X435071	SMU	09/04/24 22:04	
EPA 200.8	**Uranium**	0.0161	mg/L	0.000100	0.000052		X435071	SMU	09/04/24 22:04	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X434037	MAC	08/27/24 17:25	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X435206	DD	09/04/24 15:40	
EPA 335.4	**Cyanide (total)**	0.0214	mg/L	0.0050	0.0038		X434282	DD	08/27/24 14:16	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X435119	DD	08/29/24 13:32	B10
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X436133	DD	09/06/24 11:55	H1
SM 2310 B	**Acidity to pH 8.3**	-118	mg/L as CaCO3	10.0			X435134	MWD	08/30/24 12:02	
SM 2320 B	**Total Alkalinity**	118	mg/L as CaCO3	1.0			X435004	MWD	08/26/24 18:06	
SM 2320 B	**Bicarbonate**	118	mg/L as CaCO3	1.0			X435004	MWD	08/26/24 18:06	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X435004	MWD	08/26/24 18:06	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X435004	MWD	08/26/24 18:06	
SM 2540 C	**Total Diss. Solids**	1620	mg/L	40			X434235	TJL	08/27/24 12:35	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X434236	TJL	08/27/24 12:05	
SM 4500 H B	**pH @21.9°C**	7.0	pH Units				X435004	MWD	08/26/24 18:06	H5

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0407**
Reported: 09-Sep-24 09:58

Client Sample ID: **CRMW-3A**
SVL Sample ID: **X4H0407-01 (Ground Water)**

Sampled: 21-Aug-24 12:51
Received: 22-Aug-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	230	mg/L	10.0	1.10	50	X434222	RS	08/22/24 14:55	
EPA 300.0	**Fluoride**	3.25	mg/L	0.100	0.017		X434222	RS	08/22/24 14:39	
EPA 300.0	**Nitrate as N**	2.74	mg/L	0.050	0.013		X434222	RS	08/22/24 14:39	
EPA 300.0	**Nitrate+Nitrite as N**	2.74	mg/L	0.100	0.044		X434222	RS	08/22/24 14:39	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X434222	RS	08/22/24 14:39	
EPA 300.0	**Sulfate as SO4**	845	mg/L	15.0	9.00	50	X434222	RS	08/22/24 14:55	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 26.3 meq/L Anion Sum: 26.8 meq/L C/A Balance: -0.96 % Calculated TDS: 1654 TDS/cTDS: 0.98

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0407**
Reported: 09-Sep-24 09:58

Client Sample ID: **CRMW-3C**
SVL Sample ID: **X4H0407-02 (Ground Water)**

Sampled: 21-Aug-24 13:14
Received: 22-Aug-24
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**	272	mg/L	0.100	0.069		X435012	SJN	08/28/24 16:23	
EPA 200.7	**Magnesium**	59.9	mg/L	0.500	0.090		X435012	SJN	08/28/24 16:23	
EPA 200.7	**Potassium**	7.15	mg/L	0.50	0.18		X435012	SJN	08/28/24 16:23	
SM 2340 B	**Hardness (as CaCO3)**	926	mg/L	2.31	0.543		N/A		09/04/24 22:33	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X435022	SJN	09/04/24 22:33	
EPA 200.7	**Barium**	0.0117	mg/L	0.0020	0.0019		X435022	SJN	09/04/24 23:27	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X435022	SJN	09/04/24 22:33	
EPA 200.7	**Boron**	0.0743	mg/L	0.0400	0.0078		X435022	SJN	09/04/24 22:33	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X435022	SJN	09/04/24 22:33	
EPA 200.7	**Calcium**	278	mg/L	0.100	0.069		X435022	SJN	09/04/24 22:33	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X435022	SJN	09/04/24 22:33	
EPA 200.7	**Cobalt**	0.0205	mg/L	0.0060	0.0046		X435022	SJN	09/04/24 22:33	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X435022	SJN	09/04/24 22:33	
EPA 200.7	**Iron**	0.108	mg/L	0.100	0.056		X435022	SJN	09/04/24 22:33	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X435022	SJN	09/04/24 23:27	
EPA 200.7	**Lithium**	0.080	mg/L	0.040	0.025		X435022	SJN	09/04/24 22:33	
EPA 200.7	**Magnesium**	58.8	mg/L	0.500	0.090		X435022	SJN	09/04/24 22:33	
EPA 200.7	**Manganese**	2.47	mg/L	0.0080	0.0034		X435022	SJN	09/04/24 22:33	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X435022	SJN	09/04/24 22:33	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X435022	SJN	09/04/24 22:33	
EPA 200.7	**Potassium**	7.22	mg/L	0.50	0.18		X435022	SJN	09/04/24 22:33	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X435022	SJN	09/04/24 22:33	
EPA 200.7	**Sodium**	70.8	mg/L	0.50	0.12		X435022	SJN	09/04/24 22:33	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X435022	SJN	09/04/24 22:33	
EPA 200.7	**Zinc**	0.0320	mg/L	0.0100	0.0054		X435022	SJN	09/04/24 22:33	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X435071	SMU	09/04/24 22:07	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X435071	SMU	09/04/24 22:07	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X435071	SMU	09/04/24 22:07	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X435071	SMU	09/04/24 22:07	
EPA 200.8	**Uranium**	0.0236	mg/L	0.000100	0.000052		X435071	SMU	09/04/24 22:07	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X434037	MAC	08/27/24 17:28	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X435206	DD	09/04/24 15:42	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X434282	DD	08/27/24 14:19	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X435119	DD	08/29/24 13:34	B10
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X436133	DD	09/06/24 11:56	H1
SM 2310 B	**Acidity to pH 8.3**	-148	mg/L as CaCO3	10.0			X435134	MWD	08/30/24 12:02	
SM 2320 B	**Total Alkalinity**	154	mg/L as CaCO3	1.0			X435004	MWD	08/26/24 18:11	
SM 2320 B	**Bicarbonate**	154	mg/L as CaCO3	1.0			X435004	MWD	08/26/24 18:11	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X435004	MWD	08/26/24 18:11	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X435004	MWD	08/26/24 18:11	
SM 2540 C	**Total Diss. Solids**	1480	mg/L	10			X434235	TJL	08/27/24 12:35	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X434236	TJL	08/27/24 12:05	
SM 4500 H B	**pH @21.9°C**	7.3	pH Units				X435004	MWD	08/26/24 18:11	H5

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

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Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0407**
Reported: 09-Sep-24 09:58

Client Sample ID: **CRMW-3C**
SVL Sample ID: **X4H0407-02 (Ground Water)**

Sampled: 21-Aug-24 13:14
Received: 22-Aug-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	181	mg/L	10.0	1.10	50	X434222	RS	08/23/24 11:47	
EPA 300.0	**Fluoride**	3.26	mg/L	0.100	0.017		X434222	RS	08/23/24 11:32	
EPA 300.0	**Nitrate as N**	0.349	mg/L	0.050	0.013		X434222	RS	08/23/24 11:32	
EPA 300.0	**Nitrate+Nitrite as N**	0.349	mg/L	0.100	0.044		X434222	RS	08/23/24 11:32	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X434222	RS	08/23/24 11:32	
EPA 300.0	**Sulfate as SO4**	696	mg/L	15.0	9.00	50	X434222	RS	08/23/24 11:47	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 21.8 meq/L Anion Sum: 22.9 meq/L C/A Balance: -2.43 % Calculated TDS: 1387 TDS/cTDS: 1.07

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0407**
Reported: 09-Sep-24 09:58

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	X435012	28-Aug-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X435012	28-Aug-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X435012	28-Aug-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X435022	04-Sep-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X435022	04-Sep-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X435022	04-Sep-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X435022	04-Sep-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X435022	04-Sep-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X435022	04-Sep-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X435022	04-Sep-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X435022	04-Sep-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X435022	04-Sep-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X435022	04-Sep-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X435022	04-Sep-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X435022	04-Sep-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X435022	04-Sep-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X435022	04-Sep-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X435022	04-Sep-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X435022	04-Sep-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X435022	04-Sep-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X435022	04-Sep-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X435022	04-Sep-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X435022	04-Sep-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X435022	04-Sep-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X435071	04-Sep-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X435071	04-Sep-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X435071	04-Sep-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X435071	04-Sep-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X435071	04-Sep-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X434037	27-Aug-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X435206	04-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X434282	27-Aug-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X435119	29-Aug-24	B10
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X436133	06-Sep-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X435134	30-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X435004	26-Aug-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X435004	26-Aug-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X435004	26-Aug-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X435004	26-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X434235	27-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X434236	27-Aug-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X434222	22-Aug-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X434222	22-Aug-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X434222	22-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X434222	22-Aug-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X434222	22-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X434222	22-Aug-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0407**
Reported: 09-Sep-24 09:58

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	19.3	20.0	96	85 - 115	X435012	28-Aug-24	
EPA 200.7	Magnesium	mg/L	19.5	20.0	97.7	85 - 115	X435012	28-Aug-24	
EPA 200.7	Potassium	mg/L	19.6	20.0	98.1	85 - 115	X435012	28-Aug-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.985	1.00	98.5	85 - 115	X435022	04-Sep-24	
EPA 200.7	Barium	mg/L	0.983	1.00	98.3	85 - 115	X435022	04-Sep-24	
EPA 200.7	Beryllium	mg/L	0.987	1.00	98.7	85 - 115	X435022	04-Sep-24	
EPA 200.7	Boron	mg/L	0.980	1.00	98.0	85 - 115	X435022	04-Sep-24	
EPA 200.7	Cadmium	mg/L	0.982	1.00	98.2	85 - 115	X435022	04-Sep-24	
EPA 200.7	Calcium	mg/L	19.6	20.0	98.1	85 - 115	X435022	04-Sep-24	
EPA 200.7	Chromium	mg/L	0.984	1.00	98.4	85 - 115	X435022	04-Sep-24	
EPA 200.7	Cobalt	mg/L	0.960	1.00	96.0	85 - 115	X435022	04-Sep-24	
EPA 200.7	Copper	mg/L	0.969	1.00	96.9	85 - 115	X435022	04-Sep-24	
EPA 200.7	Iron	mg/L	10.1	10.0	101	85 - 115	X435022	04-Sep-24	
EPA 200.7	Lead	mg/L	0.976	1.00	97.6	85 - 115	X435022	04-Sep-24	
EPA 200.7	Lithium	mg/L	0.966	1.00	96.6	85 - 115	X435022	04-Sep-24	
EPA 200.7	Magnesium	mg/L	19.1	20.0	95.7	85 - 115	X435022	04-Sep-24	
EPA 200.7	Manganese	mg/L	0.983	1.00	98.3	85 - 115	X435022	04-Sep-24	
EPA 200.7	Molybdenum	mg/L	0.996	1.00	99.6	85 - 115	X435022	04-Sep-24	
EPA 200.7	Nickel	mg/L	0.964	1.00	96.4	85 - 115	X435022	04-Sep-24	
EPA 200.7	Potassium	mg/L	20.3	20.0	101	85 - 115	X435022	04-Sep-24	
EPA 200.7	Silver	mg/L	0.0499	0.0500	99.8	85 - 115	X435022	04-Sep-24	
EPA 200.7	Sodium	mg/L	18.5	19.0	97.3	85 - 115	X435022	04-Sep-24	
EPA 200.7	Vanadium	mg/L	0.981	1.00	98.1	85 - 115	X435022	04-Sep-24	
EPA 200.7	Zinc	mg/L	0.964	1.00	96.4	85 - 115	X435022	04-Sep-24	
EPA 200.8	Antimony	mg/L	0.0245	0.0250	97.9	85 - 115	X435071	05-Sep-24	
EPA 200.8	Arsenic	mg/L	0.0269	0.0250	108	85 - 115	X435071	05-Sep-24	
EPA 200.8	Selenium	mg/L	0.0264	0.0250	106	85 - 115	X435071	05-Sep-24	
EPA 200.8	Thallium	mg/L	0.0257	0.0250	103	85 - 115	X435071	05-Sep-24	
EPA 200.8	Uranium	mg/L	0.0265	0.0250	106	85 - 115	X435071	05-Sep-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00214	0.00200	107	85 - 115	X434037	27-Aug-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0950	0.100	95.0	90 - 110	X435206	04-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.104	0.100	104	90 - 110	X434282	27-Aug-24	
EPA 350.1	Ammonia as N	mg/L	1.00	1.00	100	90 - 110	X435119	29-Aug-24	B10
OIA 1677	Cyanide (WAD)	mg/L	0.103	0.100	103	90 - 110	X436133	06-Sep-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	897	884	101	95.4 - 104	X435134	30-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.2	9.93	103	96.4 - 105	X435004	26-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	103	99.3	103	96.4 - 105	X435004	26-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X434236	27-Aug-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.02	3.00	101	90 - 110	X434222	22-Aug-24	
EPA 300.0	Fluoride	mg/L	1.99	2.00	99.6	90 - 110	X434222	22-Aug-24	
EPA 300.0	Nitrate as N	mg/L	2.05	2.00	102	90 - 110	X434222	22-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.54	4.50	101	90 - 110	X434222	22-Aug-24	
EPA 300.0	Nitrite as N	mg/L	2.49	2.50	99.6	90 - 110	X434222	22-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	10.4	10.0	104	90 - 110	X434222	22-Aug-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0407**
Reported: 09-Sep-24 09:58

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	X435134 - X4H0384-01	30-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	50.2	50.0	0.4	20	X435004 - X4H0376-01	26-Aug-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	50.2	50.0	0.4	20	X435004 - X4H0376-01	26-Aug-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X435004 - X4H0376-01	26-Aug-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X435004 - X4H0376-01	26-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	1340	1380	3.2	10	X434235 - X4H0406-01	27-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	479	507	5.7	10	X434235 - X4H0409-09	27-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X434236 - X4H0406-01	27-Aug-24	
SM 4500 H B	pH @21.5°C	pH Units	7.1	7.1	0.4	20	X435004 - X4H0376-01	26-Aug-24	

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	69.1	49.6	20.0	97	70 - 130	X435012 - X4H0376-01	28-Aug-24	
EPA 200.7	Calcium	mg/L	86.4	64.2	20.0	111	70 - 130	X435012 - X4H0442-01	28-Aug-24	
EPA 200.7	Magnesium	mg/L	26.4	6.33	20.0	100	70 - 130	X435012 - X4H0376-01	28-Aug-24	
EPA 200.7	Magnesium	mg/L	23.6	2.61	20.0	105	70 - 130	X435012 - X4H0442-01	28-Aug-24	
EPA 200.7	Potassium	mg/L	20.9	0.83	20.0	100	70 - 130	X435012 - X4H0376-01	28-Aug-24	
EPA 200.7	Potassium	mg/L	25.7	4.64	20.0	105	70 - 130	X435012 - X4H0442-01	28-Aug-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.987	<0.080	1.00	98.7	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Barium	mg/L	0.971	<0.0020	1.00	97.1	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Beryllium	mg/L	0.964	<0.00200	1.00	96.4	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Boron	mg/L	1.01	<0.0400	1.00	99.0	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Cadmium	mg/L	0.973	<0.0020	1.00	97.3	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Calcium	mg/L	70.4	51.6	20.0	93.8	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Chromium	mg/L	0.986	<0.0060	1.00	98.6	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Cobalt	mg/L	0.942	<0.0060	1.00	94.2	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Copper	mg/L	0.970	<0.0100	1.00	96.6	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Iron	mg/L	10.2	<0.100	10.0	102	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Lead	mg/L	0.946	<0.0075	1.00	94.6	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Lithium	mg/L	0.964	<0.040	1.00	96.4	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Magnesium	mg/L	25.6	6.26	20.0	96.9	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Manganese	mg/L	0.978	<0.0080	1.00	97.2	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Molybdenum	mg/L	0.983	<0.0080	1.00	98.3	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Nickel	mg/L	0.929	<0.0100	1.00	92.9	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Potassium	mg/L	21.3	0.78	20.0	103	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Silver	mg/L	0.0504	<0.0050	0.0500	101	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Sodium	mg/L	43.0	24.9	19.0	95.4	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Vanadium	mg/L	0.986	<0.0050	1.00	98.6	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Zinc	mg/L	0.977	<0.0100	1.00	97.7	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.8	Antimony	mg/L	0.0259	<0.00100	0.0250	104	70 - 130	X435071 - X4H0362-01	04-Sep-24	
EPA 200.8	Antimony	mg/L	0.0267	<0.00100	0.0250	107	70 - 130	X435071 - X4H0377-01	04-Sep-24	
EPA 200.8	Arsenic	mg/L	0.0308	0.00295	0.0250	111	70 - 130	X435071 - X4H0362-01	04-Sep-24	
EPA 200.8	Arsenic	mg/L	0.0270	<0.00100	0.0250	108	70 - 130	X435071 - X4H0377-01	04-Sep-24	
EPA 200.8	Selenium	mg/L	0.0273	<0.00100	0.0250	107	70 - 130	X435071 - X4H0362-01	04-Sep-24	
EPA 200.8	Selenium	mg/L	0.0294	<0.00100	0.0250	116	70 - 130	X435071 - X4H0377-01	04-Sep-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0407**
Reported: 09-Sep-24 09:58

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 200.8	Thallium	mg/L	0.0304	0.000361	0.0250	120	70 - 130	X435071 - X4H0362-01	04-Sep-24	
EPA 200.8	Thallium	mg/L	0.0263	<0.000200	0.0250	105	70 - 130	X435071 - X4H0377-01	04-Sep-24	
EPA 200.8	Uranium	mg/L	0.0358	0.00385	0.0250	128	70 - 130	X435071 - X4H0362-01	04-Sep-24	
EPA 200.8	Uranium	mg/L	0.0330	0.00511	0.0250	112	70 - 130	X435071 - X4H0377-01	04-Sep-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00218	<0.000200	0.00200	109	70 - 130	X434037 - X4H0241-01	27-Aug-24	
EPA 245.1	Mercury	mg/L	0.00217	<0.000200	0.00200	109	70 - 130	X434037 - X4H0376-01	27-Aug-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0980	<0.0050	0.100	98.0	79 - 121	X435206 - X4H0406-01	04-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.108	<0.0050	0.100	108	90 - 110	X434282 - X4H0346-01	27-Aug-24	
EPA 335.4	Cyanide (total)	mg/L	0.106	<0.0050	0.100	106	90 - 110	X434282 - X4H0346-02	27-Aug-24	
EPA 350.1	Ammonia as N	mg/L	1.07	<0.030	1.00	105	90 - 110	X435119 - X4H0346-01	29-Aug-24	B10
EPA 350.1	Ammonia as N	mg/L	1.01	<0.030	1.00	101	90 - 110	X435119 - X4H0346-02	29-Aug-24	B10
OIA 1677	Cyanide (WAD)	mg/L	0.117	0.0070	0.100	110	82 - 118	X436133 - X4H0346-01	06-Sep-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.28	0.28	3.00	99.8	90 - 110	X434222 - X4H0411-01	23-Aug-24	
EPA 300.0	Chloride	mg/L	33.3	30.4	3.00	98.9	90 - 110	X434222 - X4H0409-09	23-Aug-24	
EPA 300.0	Fluoride	mg/L	2.03	<0.100	2.00	99.9	90 - 110	X434222 - X4H0411-01	23-Aug-24	
EPA 300.0	Fluoride	mg/L	2.17	0.325	2.00	92.1	90 - 110	X434222 - X4H0409-09	23-Aug-24	
EPA 300.0	Nitrate as N	mg/L	2.09	0.075	2.00	101	90 - 110	X434222 - X4H0411-01	23-Aug-24	
EPA 300.0	Nitrate as N	mg/L	2.00	<0.050	2.00	100	90 - 110	X434222 - X4H0409-09	23-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.09	<0.100	4.00	100	90 - 110	X434222 - X4H0411-01	23-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.99	<0.100	4.00	99.7	90 - 110	X434222 - X4H0409-09	23-Aug-24	
EPA 300.0	Nitrite as N	mg/L	2.00	<0.050	2.00	99.9	90 - 110	X434222 - X4H0411-01	23-Aug-24	
EPA 300.0	Nitrite as N	mg/L	1.99	<0.050	2.00	99.3	90 - 110	X434222 - X4H0409-09	23-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	14.5	4.43	10.0	101	90 - 110	X434222 - X4H0411-01	23-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	129	120	10.0	95.4	90 - 110	X434222 - X4H0409-09	23-Aug-24	

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	68.8	69.1	20.0	0.5	20	96	X435012 - X4H0376-01	
EPA 200.7	Magnesium	mg/L	26.6	26.4	20.0	0.7	20	101	X435012 - X4H0376-01	
EPA 200.7	Potassium	mg/L	20.9	20.9	20.0	0.1	20	100	X435012 - X4H0376-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.984	0.987	1.00	0.3	20	98.4	X435022 - X4H0376-01	
EPA 200.7	Barium	mg/L	0.960	0.971	1.00	1.1	20	96.0	X435022 - X4H0376-01	
EPA 200.7	Beryllium	mg/L	0.982	0.964	1.00	1.8	20	98.2	X435022 - X4H0376-01	
EPA 200.7	Boron	mg/L	1.00	1.01	1.00	0.3	20	98.6	X435022 - X4H0376-01	
EPA 200.7	Cadmium	mg/L	0.968	0.973	1.00	0.6	20	96.8	X435022 - X4H0376-01	
EPA 200.7	Calcium	mg/L	71.4	70.4	20.0	1.4	20	98.6	X435022 - X4H0376-01	
EPA 200.7	Chromium	mg/L	0.980	0.986	1.00	0.6	20	98.0	X435022 - X4H0376-01	
EPA 200.7	Cobalt	mg/L	0.938	0.942	1.00	0.4	20	93.8	X435022 - X4H0376-01	
EPA 200.7	Copper	mg/L	0.962	0.970	1.00	0.7	20	95.9	X435022 - X4H0376-01	
EPA 200.7	Iron	mg/L	10.3	10.2	10.0	0.7	20	103	X435022 - X4H0376-01	
EPA 200.7	Lead	mg/L	0.926	0.946	1.00	2.1	20	92.6	X435022 - X4H0376-01	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0407**
Reported: 09-Sep-24 09:58

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Lithium	mg/L	0.972	0.964	1.00	0.8	20	97.2	X435022 - X4H0376-01	
EPA 200.7	Magnesium	mg/L	25.6	25.6	20.0	0.2	20	96.6	X435022 - X4H0376-01	
EPA 200.7	Manganese	mg/L	0.972	0.978	1.00	0.6	20	96.6	X435022 - X4H0376-01	
EPA 200.7	Molybdenum	mg/L	0.982	0.983	1.00	0.1	20	98.2	X435022 - X4H0376-01	
EPA 200.7	Nickel	mg/L	0.925	0.929	1.00	0.5	20	92.5	X435022 - X4H0376-01	
EPA 200.7	Potassium	mg/L	21.7	21.3	20.0	1.9	20	105	X435022 - X4H0376-01	
EPA 200.7	Silver	mg/L	0.0501	0.0504	0.0500	0.6	20	100	X435022 - X4H0376-01	
EPA 200.7	Sodium	mg/L	43.5	43.0	19.0	1.2	20	98.2	X435022 - X4H0376-01	
EPA 200.7	Vanadium	mg/L	0.979	0.986	1.00	0.8	20	97.9	X435022 - X4H0376-01	
EPA 200.7	Zinc	mg/L	0.968	0.977	1.00	0.9	20	96.8	X435022 - X4H0376-01	
EPA 200.8	Antimony	mg/L	0.0261	0.0259	0.0250	0.8	20	104	X435071 - X4H0362-01	
EPA 200.8	Arsenic	mg/L	0.0316	0.0308	0.0250	2.7	20	115	X435071 - X4H0362-01	
EPA 200.8	Selenium	mg/L	0.0276	0.0273	0.0250	1.2	20	108	X435071 - X4H0362-01	
EPA 200.8	Thallium	mg/L	0.0305	0.0304	0.0250	0.5	20	121	X435071 - X4H0362-01	
EPA 200.8	Uranium	mg/L	0.0364	0.0358	0.0250	1.7	20	130	X435071 - X4H0362-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00217	0.00218	0.00200	0.1	20	109	X434037 - X4H0241-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0920	0.0980	0.100	6.3	11	92.0	X435206 - X4H0406-01	
EPA 335.4	Cyanide (total)	mg/L	0.106	0.108	0.100	1.8	20	106	X434282 - X4H0346-01	
EPA 350.1	Ammonia as N	mg/L	1.06	1.07	1.00	0.2	20	104	X435119 - X4H0346-01	B10
OIA 1677	Cyanide (WAD)	mg/L	0.118	0.117	0.100	0.9	11	111	X436133 - X4H0346-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.39	3.28	3.00	3.4	20	104	X434222 - X4H0411-01	
EPA 300.0	Fluoride	mg/L	2.09	2.03	2.00	2.9	20	103	X434222 - X4H0411-01	
EPA 300.0	Nitrate as N	mg/L	2.15	2.09	2.00	2.6	20	104	X434222 - X4H0411-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.21	4.09	4.00	2.8	20	103	X434222 - X4H0411-01	
EPA 300.0	Nitrite as N	mg/L	2.06	2.00	2.00	2.9	20	103	X434222 - X4H0411-01	
EPA 300.0	Sulfate as SO4	mg/L	14.8	14.5	10.0	1.9	20	104	X434222 - X4H0411-01	

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4H0407**
Victor, CO 80860	Reported: 09-Sep-24 09:58

Notes and Definitions

B10	Target analyte detected in method blank above laboratory acceptance limit but below reporting limit.
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.
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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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4I0153**
Victor, CO 80860	Reported: 02-Oct-24 16:34

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-26A	X4I0153-01	Ground Water	09-Sep-24 11:41	TR	11-Sep-2024	
GVMW-26B	X4I0153-02	Ground Water	09-Sep-24 12:25	TR	11-Sep-2024	
GVMW-22A	X4I0153-03	Ground Water	09-Sep-24 14:32	TR	11-Sep-2024	
GVMW-22B	X4I0153-04	Ground Water	09-Sep-24 13:32	TR	11-Sep-2024	

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: X4I0153

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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Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0153**
Reported: 02-Oct-24 16:34

Client Sample ID: **GVMW-26A**
SVL Sample ID: **X4I0153-01 (Ground Water)**

Sampled: 09-Sep-24 11:41
Received: 11-Sep-24
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**	28.7	mg/L	0.100	0.069		X438157	SJN	09/23/24 15:34	
EPA 200.7	**Magnesium**	6.75	mg/L	0.500	0.090		X438157	SJN	09/23/24 15:34	
EPA 200.7	**Potassium**	1.07	mg/L	0.50	0.18		X438157	SJN	09/23/24 15:34	
SM 2340 B	**Hardness (as CaCO3)**	101	mg/L	2.31	0.543		N/A		09/23/24 15:34	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X439009	SJN	09/23/24 11:12	
EPA 200.7	**Barium**	0.196	mg/L	0.0020	0.0019		X439009	SJN	09/23/24 11:12	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X439009	SJN	09/23/24 11:12	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X439009	SJN	09/23/24 11:12	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X439009	SJN	09/23/24 11:12	
EPA 200.7	**Calcium**	29.4	mg/L	0.100	0.069		X439009	SJN	09/23/24 11:12	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X439009	SJN	09/23/24 11:12	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X439009	SJN	09/23/24 11:12	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X439009	SJN	09/23/24 11:12	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X439009	SJN	09/23/24 11:12	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X439009	SJN	09/23/24 11:12	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X439009	SJN	09/23/24 11:12	
EPA 200.7	**Magnesium**	6.70	mg/L	0.500	0.090		X439009	SJN	09/23/24 11:12	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X439009	SJN	09/23/24 11:12	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X439009	SJN	09/23/24 11:12	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X439009	SJN	09/23/24 11:12	
EPA 200.7	**Potassium**	0.95	mg/L	0.50	0.18		X439009	SJN	09/23/24 11:12	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X439009	SJN	09/23/24 11:12	
EPA 200.7	**Sodium**	31.6	mg/L	0.50	0.12		X439009	SJN	09/23/24 11:12	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X439009	SJN	09/23/24 11:12	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X439009	SJN	09/23/24 11:12	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X437193	JRR	09/17/24 10:12	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X437193	JRR	09/17/24 10:12	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X437193	JRR	09/17/24 10:12	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X437193	JRR	09/17/24 10:12	
EPA 200.8	**Uranium**	0.00319	mg/L	0.000100	0.000052		X437193	JRR	09/17/24 10:12	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X437205	MAC	09/20/24 15:20	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X437239	DD	09/19/24 15:05	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X438003	DD	09/16/24 12:42	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X437176	DD	09/13/24 14:48	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X438183	DD	09/20/24 11:35	
SM 2310 B	**Acidity to pH 8.3**	-148	mg/L as CaCO3	10.0			X438150	MWD	09/23/24 07:30	
SM 2320 B	**Total Alkalinity**	156	mg/L as CaCO3	1.0			X437221	MWD	09/13/24 18:15	
SM 2320 B	**Bicarbonate**	156	mg/L as CaCO3	1.0			X437221	MWD	09/13/24 18:15	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X437221	MWD	09/13/24 18:15	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X437221	MWD	09/13/24 18:15	
SM 2540 C	**Total Diss. Solids**	204	mg/L	10			X437195	TJL	09/16/24 13:20	
SM 2540 D	**Total Susp. Solids**	8.0	mg/L	5.0			X437198	TJL	09/16/24 14:50	
SM 4500 H B	**pH @20.0°C**	7.9	pH Units				X437221	MWD	09/13/24 18:15	H5

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0153**
Reported: 02-Oct-24 16:34

Client Sample ID: **GVMW-26A**
SVL Sample ID: **X4I0153-01 (Ground Water)**

Sampled: 09-Sep-24 11:41
Received: 11-Sep-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	1.24	mg/L	0.20	0.02		X437126	RS	09/11/24 11:41	
EPA 300.0	**Chloride**	1.19	mg/L	0.20	0.02		X439111	RS	09/26/24 12:47	
EPA 300.0	**Chloride**	1.20	mg/L	0.20	0.02		X439111	RS	09/26/24 13:06	
EPA 300.0	**Fluoride**	2.02	mg/L	0.100	0.017		X437126	RS	09/11/24 11:41	
EPA 300.0	**Fluoride**	1.96	mg/L	0.100	0.017		X439111	RS	09/26/24 12:47	
EPA 300.0	**Fluoride**	1.98	mg/L	0.100	0.017		X439111	RS	09/26/24 13:06	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X437126	RS	09/11/24 11:41	H3
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X439111	RS	09/26/24 12:47	H1
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X439111	RS	09/26/24 13:06	H1
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X437126	RS	09/11/24 11:41	H3
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X439111	RS	09/26/24 12:47	H1
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X439111	RS	09/26/24 13:06	H1
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X437126	RS	09/11/24 11:41	H3
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X439111	RS	09/26/24 12:47	H1
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X439111	RS	09/26/24 13:06	H1
EPA 300.0	**Sulfate as SO4**	14.9	mg/L	0.30	0.18		X437126	RS	09/11/24 11:41	
EPA 300.0	**Sulfate as SO4**	14.0	mg/L	0.30	0.18		X439111	RS	09/26/24 12:47	
EPA 300.0	**Sulfate as SO4**	14.0	mg/L	0.30	0.18		X439111	RS	09/26/24 13:06	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.40 meq/L Anion Sum: 3.55 meq/L C/A Balance: -2.16 % Calculated TDS: 179 TDS/cTDS: 1.14

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

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Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0153**
Reported: 02-Oct-24 16:34

Client Sample ID: **GVMW-26B**
SVL Sample ID: **X4I0153-02 (Ground Water)**

Sampled: 09-Sep-24 12:25
Received: 11-Sep-24
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**	10.1	mg/L	0.100	0.069		X438157	SJN	09/23/24 15:38	
EPA 200.7	**Magnesium**	2.10	mg/L	0.500	0.090		X438157	SJN	09/23/24 15:38	
EPA 200.7	**Potassium**	0.79	mg/L	0.50	0.18		X438157	SJN	09/23/24 15:38	
SM 2340 B	**Hardness (as CaCO3)**	33.8	mg/L	2.31	0.543		N/A		09/23/24 11:16	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X439009	SJN	09/23/24 11:16	
EPA 200.7	**Barium**	0.101	mg/L	0.0020	0.0019		X439009	SJN	09/23/24 11:16	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X439009	SJN	09/23/24 11:16	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X439009	SJN	09/23/24 11:16	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X439009	SJN	09/23/24 11:16	
EPA 200.7	**Calcium**	10.4	mg/L	0.100	0.069		X439009	SJN	09/23/24 11:16	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X439009	SJN	09/23/24 11:16	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X439009	SJN	09/23/24 11:16	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X439009	SJN	09/23/24 11:16	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X439009	SJN	09/23/24 11:16	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X439009	SJN	09/23/24 11:16	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X439009	SJN	09/23/24 11:16	
EPA 200.7	**Magnesium**	2.10	mg/L	0.500	0.090		X439009	SJN	09/23/24 11:16	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X439009	SJN	09/23/24 11:16	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X439009	SJN	09/23/24 11:16	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X439009	SJN	09/23/24 11:16	
EPA 200.7	**Potassium**	0.78	mg/L	0.50	0.18		X439009	SJN	09/23/24 11:16	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X439009	SJN	09/23/24 11:16	
EPA 200.7	**Sodium**	10.1	mg/L	0.50	0.12		X439009	SJN	09/23/24 11:16	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X439009	SJN	09/23/24 11:16	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X439009	SJN	09/23/24 11:16	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X437193	JRR	09/17/24 10:15	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X437193	JRR	09/17/24 10:15	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X437193	JRR	09/17/24 10:15	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X437193	JRR	09/17/24 10:15	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X437193	JRR	09/17/24 10:15	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X437205	MAC	09/20/24 15:22	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X437239	DD	09/19/24 15:07	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X438003	DD	09/16/24 12:44	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X437176	DD	09/13/24 14:49	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X438183	DD	09/20/24 11:36	
SM 2310 B	**Acidity to pH 8.3**	-28.3	mg/L as CaCO3	10.0			X438150	MWD	09/23/24 07:30	
SM 2320 B	**Total Alkalinity**	32.9	mg/L as CaCO3	1.0			X437221	MWD	09/13/24 18:21	
SM 2320 B	**Bicarbonate**	32.9	mg/L as CaCO3	1.0			X437221	MWD	09/13/24 18:21	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X437221	MWD	09/13/24 18:21	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X437221	MWD	09/13/24 18:21	
SM 2540 C	**Total Diss. Solids**	87	mg/L	10			X437195	TJL	09/16/24 13:20	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X437198	TJL	09/16/24 14:50	
SM 4500 H B	**pH @20.0°C**	6.6	pH Units				X437221	MWD	09/13/24 18:21	H5

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

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Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0153**
Reported: 02-Oct-24 16:34

Client Sample ID: **GVMW-26B**
SVL Sample ID: **X4I0153-02 (Ground Water)**

Sampled: 09-Sep-24 12:25
Received: 11-Sep-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	1.89	mg/L	0.20	0.02		X437126	RS	09/11/24 10:45	
EPA 300.0	**Fluoride**	0.208	mg/L	0.100	0.017		X437126	RS	09/11/24 10:45	
EPA 300.0	**Nitrate as N**	0.737	mg/L	0.050	0.013		X437126	RS	09/11/24 10:45	
EPA 300.0	**Nitrate+Nitrite as N**	0.737	mg/L	0.100	0.044		X437126	RS	09/11/24 10:45	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X437126	RS	09/11/24 10:45	
EPA 300.0	**Sulfate as SO4**	21.5	mg/L	0.30	0.18		X437126	RS	09/11/24 10:45	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 1.15 meq/L Anion Sum: 1.22 meq/L C/A Balance: -3.01 % Calculated TDS: 70 TDS/cTDS: 1.25

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0153**
Reported: 02-Oct-24 16:34

Client Sample ID: **GVMW-22A**
SVL Sample ID: **X4I0153-03 (Ground Water)**

Sampled: 09-Sep-24 14:32
Received: 11-Sep-24
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**	27.4	mg/L	0.100	0.069		X438157	SJN	09/23/24 15:41	
EPA 200.7	**Magnesium**	11.5	mg/L	0.500	0.090		X438157	SJN	09/23/24 15:41	
EPA 200.7	**Potassium**	1.28	mg/L	0.50	0.18		X438157	SJN	09/23/24 15:41	
SM 2340 B	**Hardness (as CaCO3)**	117	mg/L	2.31	0.543		N/A		09/23/24 15:41	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X439009	SJN	09/23/24 11:19	
EPA 200.7	**Barium**	0.0997	mg/L	0.0020	0.0019		X439009	SJN	09/23/24 11:19	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X439009	SJN	09/23/24 11:19	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X439009	SJN	09/23/24 11:19	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X439009	SJN	09/23/24 11:19	
EPA 200.7	**Calcium**	28.2	mg/L	0.100	0.069		X439009	SJN	09/23/24 11:19	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X439009	SJN	09/23/24 11:19	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X439009	SJN	09/23/24 11:19	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X439009	SJN	09/23/24 11:19	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X439009	SJN	09/23/24 11:19	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X439009	SJN	09/23/24 11:19	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X439009	SJN	09/23/24 11:19	
EPA 200.7	**Magnesium**	11.4	mg/L	0.500	0.090		X439009	SJN	09/23/24 11:19	
EPA 200.7	**Manganese**	0.163	mg/L	0.0080	0.0034		X439009	SJN	09/23/24 11:19	
EPA 200.7	**Molybdenum**	0.0094	mg/L	0.0080	0.0034		X439009	SJN	09/23/24 11:19	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X439009	SJN	09/23/24 11:19	
EPA 200.7	**Potassium**	1.22	mg/L	0.50	0.18		X439009	SJN	09/23/24 11:19	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X439009	SJN	09/23/24 11:19	
EPA 200.7	**Sodium**	37.4	mg/L	0.50	0.12		X439009	SJN	09/23/24 11:19	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X439009	SJN	09/23/24 11:19	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X439009	SJN	09/23/24 11:19	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X437193	JRR	09/17/24 10:20	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X437193	JRR	09/17/24 10:20	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X437193	JRR	09/17/24 10:20	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X437193	JRR	09/17/24 10:20	
EPA 200.8	**Uranium**	0.00328	mg/L	0.000100	0.000052		X437193	JRR	09/17/24 10:20	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X437205	MAC	09/20/24 15:24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X437239	DD	09/19/24 15:09	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X438003	DD	09/16/24 12:47	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X437176	DD	09/13/24 14:51	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X438183	DD	09/20/24 11:38	
SM 2310 B	**Acidity to pH 8.3**	-163	mg/L as CaCO3	10.0			X438150	MWD	09/23/24 07:30	
SM 2320 B	**Total Alkalinity**	167	mg/L as CaCO3	1.0			X437221	MWD	09/13/24 18:26	
SM 2320 B	**Bicarbonate**	167	mg/L as CaCO3	1.0			X437221	MWD	09/13/24 18:26	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X437221	MWD	09/13/24 18:26	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X437221	MWD	09/13/24 18:26	
SM 2540 C	**Total Diss. Solids**	212	mg/L	10			X437195	TJL	09/16/24 13:20	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X437198	TJL	09/16/24 14:50	
SM 4500 H B	**pH @19.9°C**	7.9	pH Units				X437221	MWD	09/13/24 18:26	H5

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0153**
Reported: 02-Oct-24 16:34

Client Sample ID: **GVMW-22A**
SVL Sample ID: **X4I0153-03 (Ground Water)**

Sampled: 09-Sep-24 14:32
Received: 11-Sep-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	3.79	mg/L	0.20	0.02		X437126	RS	09/11/24 11:22	
EPA 300.0	**Fluoride**	2.37	mg/L	0.100	0.017		X437126	RS	09/11/24 11:22	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X437126	RS	09/11/24 11:22	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X437126	RS	09/11/24 11:22	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X437126	RS	09/11/24 11:22	
EPA 300.0	**Sulfate as SO4**	33.4	mg/L	0.30	0.18		X437126	RS	09/11/24 11:22	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.98 meq/L Anion Sum: 4.27 meq/L C/A Balance: -3.43 % Calculated TDS: 218 TDS/cTDS: 0.97

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0153**
Reported: 02-Oct-24 16:34

Client Sample ID: **GVMW-22B**
SVL Sample ID: **X4I0153-04 (Ground Water)**

Sampled: 09-Sep-24 13:32
Received: 11-Sep-24
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**	27.1	mg/L	0.100	0.069		X438157	SJN	09/23/24 15:45	
EPA 200.7	**Magnesium**	7.27	mg/L	0.500	0.090		X438157	SJN	09/23/24 15:45	
EPA 200.7	**Potassium**	1.39	mg/L	0.50	0.18		X438157	SJN	09/23/24 15:45	
SM 2340 B	**Hardness (as CaCO3)**	96.2	mg/L	2.31	0.543		N/A		09/23/24 15:45	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X439009	SJN	09/23/24 11:27	
EPA 200.7	**Barium**	0.0486	mg/L	0.0020	0.0019		X439009	SJN	09/23/24 11:27	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X439009	SJN	09/23/24 11:27	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X439009	SJN	09/23/24 11:27	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X439009	SJN	09/23/24 11:27	
EPA 200.7	**Calcium**	26.6	mg/L	0.100	0.069		X439009	SJN	09/23/24 11:27	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X439009	SJN	09/23/24 11:27	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X439009	SJN	09/23/24 11:27	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X439009	SJN	09/23/24 11:27	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X439009	SJN	09/23/24 11:27	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X439009	SJN	09/23/24 11:27	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X439009	SJN	09/23/24 11:27	
EPA 200.7	**Magnesium**	6.96	mg/L	0.500	0.090		X439009	SJN	09/23/24 11:27	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X439009	SJN	09/23/24 11:27	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X439009	SJN	09/23/24 11:27	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X439009	SJN	09/23/24 11:27	
EPA 200.7	**Potassium**	1.32	mg/L	0.50	0.18		X439009	SJN	09/23/24 11:27	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X439009	SJN	09/23/24 11:27	
EPA 200.7	**Sodium**	16.3	mg/L	0.50	0.12		X439009	SJN	09/23/24 11:27	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X439009	SJN	09/23/24 11:27	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X439009	SJN	09/23/24 11:27	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X437193	JRR	09/17/24 10:22	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X437193	JRR	09/17/24 10:22	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X437193	JRR	09/17/24 10:22	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X437193	JRR	09/17/24 10:22	
EPA 200.8	**Uranium**	0.000531	mg/L	0.000100	0.000052		X437193	JRR	09/17/24 10:22	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X437205	MAC	09/20/24 15:26	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X437239	DD	09/19/24 15:11	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X438003	DD	09/16/24 12:50	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X437176	DD	09/13/24 14:53	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X438183	DD	09/20/24 11:39	
SM 2310 B	**Acidity to pH 8.3**	-58.1	mg/L as CaCO3	10.0			X438150	MWD	09/23/24 07:30	
SM 2320 B	**Total Alkalinity**	62.5	mg/L as CaCO3	1.0			X437221	MWD	09/13/24 18:32	
SM 2320 B	**Bicarbonate**	62.5	mg/L as CaCO3	1.0			X437221	MWD	09/13/24 18:32	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X437221	MWD	09/13/24 18:32	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X437221	MWD	09/13/24 18:32	
SM 2540 C	**Total Diss. Solids**	195	mg/L	10			X437195	TJL	09/16/24 13:20	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X437198	TJL	09/16/24 14:50	
SM 4500 H B	**pH @19.9°C**	6.9	pH Units				X437221	MWD	09/13/24 18:32	H5

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

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Post Office Box 191
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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0153**
Reported: 02-Oct-24 16:34

Client Sample ID: **GVMW-22B**
SVL Sample ID: **X4I0153-04 (Ground Water)**

Sampled: 09-Sep-24 13:32
Received: 11-Sep-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	10.4	mg/L	0.20	0.02		X437126	RS	09/11/24 11:04	
EPA 300.0	**Fluoride**	0.375	mg/L	0.100	0.017		X437126	RS	09/11/24 11:04	
EPA 300.0	**Nitrate as N**	0.631	mg/L	0.050	0.013		X437126	RS	09/11/24 11:04	
EPA 300.0	**Nitrate+Nitrite as N**	0.631	mg/L	0.100	0.044		X437126	RS	09/11/24 11:04	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X437126	RS	09/11/24 11:04	
EPA 300.0	**Sulfate as SO4**	59.0	mg/L	3.00	1.80	10	X437126	RS	09/11/24 13:07	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 2.66 meq/L Anion Sum: 2.84 meq/L C/A Balance: -3.26 % Calculated TDS: 162 TDS/cTDS: 1.21

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X410153**
Reported: 02-Oct-24 16:34

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	X438157	23-Sep-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X438157	23-Sep-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X438157	23-Sep-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X439009	23-Sep-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X439009	23-Sep-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X439009	23-Sep-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X439009	23-Sep-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X439009	23-Sep-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X439009	23-Sep-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X439009	23-Sep-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X439009	23-Sep-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X439009	23-Sep-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X439009	23-Sep-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X439009	23-Sep-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X439009	23-Sep-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X439009	23-Sep-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X439009	23-Sep-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X439009	23-Sep-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X439009	23-Sep-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X439009	23-Sep-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X439009	23-Sep-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X439009	23-Sep-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X439009	23-Sep-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X439009	23-Sep-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X437193	17-Sep-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X437193	17-Sep-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X437193	17-Sep-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X437193	17-Sep-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X437193	17-Sep-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X437205	20-Sep-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X437239	19-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X438003	16-Sep-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X437176	13-Sep-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X438183	20-Sep-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X438150	23-Sep-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X437221	13-Sep-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X437221	13-Sep-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X437221	13-Sep-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X437221	13-Sep-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X437195	16-Sep-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X437198	16-Sep-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X437126	11-Sep-24	
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X439111	26-Sep-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X437126	11-Sep-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X439111	26-Sep-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X437126	11-Sep-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X439111	26-Sep-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X437126	11-Sep-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X439111	26-Sep-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X437126	11-Sep-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0153**
Reported: 02-Oct-24 16:34

Quality Control - BLANK Data (Continued)

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Anions by Ion Chromatography (Continued)								
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X439111	26-Sep-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X437126	11-Sep-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X439111	26-Sep-24	

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	18.8	20.0	94	85 - 115	X438157	23-Sep-24	
EPA 200.7	Magnesium	mg/L	19.5	20.0	97.6	85 - 115	X438157	23-Sep-24	
EPA 200.7	Potassium	mg/L	19.1	20.0	95.5	85 - 115	X438157	23-Sep-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	1.00	1.00	100	85 - 115	X439009	23-Sep-24	
EPA 200.7	Barium	mg/L	0.985	1.00	98.5	85 - 115	X439009	23-Sep-24	
EPA 200.7	Beryllium	mg/L	1.04	1.00	104	85 - 115	X439009	23-Sep-24	
EPA 200.7	Boron	mg/L	0.984	1.00	98.4	85 - 115	X439009	23-Sep-24	
EPA 200.7	Cadmium	mg/L	0.978	1.00	97.8	85 - 115	X439009	23-Sep-24	
EPA 200.7	Calcium	mg/L	19.6	20.0	97.8	85 - 115	X439009	23-Sep-24	
EPA 200.7	Chromium	mg/L	0.997	1.00	99.7	85 - 115	X439009	23-Sep-24	
EPA 200.7	Cobalt	mg/L	0.961	1.00	96.1	85 - 115	X439009	23-Sep-24	
EPA 200.7	Copper	mg/L	1.00	1.00	100	85 - 115	X439009	23-Sep-24	
EPA 200.7	Iron	mg/L	9.95	10.0	99.5	85 - 115	X439009	23-Sep-24	
EPA 200.7	Lead	mg/L	0.972	1.00	97.2	85 - 115	X439009	23-Sep-24	
EPA 200.7	Lithium	mg/L	0.939	1.00	93.9	85 - 115	X439009	23-Sep-24	
EPA 200.7	Magnesium	mg/L	19.2	20.0	95.9	85 - 115	X439009	23-Sep-24	
EPA 200.7	Manganese	mg/L	0.992	1.00	99.2	85 - 115	X439009	23-Sep-24	
EPA 200.7	Molybdenum	mg/L	0.995	1.00	99.5	85 - 115	X439009	23-Sep-24	
EPA 200.7	Nickel	mg/L	0.971	1.00	97.1	85 - 115	X439009	23-Sep-24	
EPA 200.7	Potassium	mg/L	19.6	20.0	98.1	85 - 115	X439009	23-Sep-24	
EPA 200.7	Silver	mg/L	0.0524	0.0500	105	85 - 115	X439009	23-Sep-24	
EPA 200.7	Sodium	mg/L	19.1	19.0	101	85 - 115	X439009	23-Sep-24	
EPA 200.7	Vanadium	mg/L	1.01	1.00	101	85 - 115	X439009	23-Sep-24	
EPA 200.7	Zinc	mg/L	0.986	1.00	98.6	85 - 115	X439009	23-Sep-24	
EPA 200.8	Antimony	mg/L	0.0249	0.0250	99.7	85 - 115	X437193	17-Sep-24	
EPA 200.8	Arsenic	mg/L	0.0246	0.0250	98.4	85 - 115	X437193	17-Sep-24	
EPA 200.8	Selenium	mg/L	0.0254	0.0250	101	85 - 115	X437193	17-Sep-24	
EPA 200.8	Thallium	mg/L	0.0250	0.0250	100	85 - 115	X437193	17-Sep-24	
EPA 200.8	Uranium	mg/L	0.0260	0.0250	104	85 - 115	X437193	17-Sep-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00183	0.00200	91.5	85 - 115	X437205	20-Sep-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.101	0.100	101	90 - 110	X437239	19-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.109	0.100	109	90 - 110	X438003	16-Sep-24	
EPA 350.1	Ammonia as N	mg/L	0.948	1.00	94.8	90 - 110	X437176	13-Sep-24	
OIA 1677	Cyanide (WAD)	mg/L	0.103	0.100	103	90 - 110	X438183	20-Sep-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	868	884	98.1	95.4 - 104	X438150	23-Sep-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.60	9.93	96.7	96.4 - 105	X437221	13-Sep-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	100	99.3	101	96.4 - 105	X437221	13-Sep-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	402	397	101	96.4 - 105	X437221	13-Sep-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X437198	16-Sep-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0153**
Reported: 02-Oct-24 16:34

Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.14	3.00	105	90 - 110	X437126	11-Sep-24	
EPA 300.0	Chloride	mg/L	3.04	3.00	101	90 - 110	X439111	26-Sep-24	
EPA 300.0	Fluoride	mg/L	2.07	2.00	103	90 - 110	X437126	11-Sep-24	
EPA 300.0	Fluoride	mg/L	2.00	2.00	100	90 - 110	X439111	26-Sep-24	
EPA 300.0	Nitrate as N	mg/L	2.11	2.00	105	90 - 110	X437126	11-Sep-24	
EPA 300.0	Nitrate as N	mg/L	2.04	2.00	102	90 - 110	X439111	26-Sep-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.75	4.50	106	90 - 110	X437126	11-Sep-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.61	4.50	102	90 - 110	X439111	26-Sep-24	
EPA 300.0	Nitrite as N	mg/L	2.64	2.50	106	90 - 110	X437126	11-Sep-24	
EPA 300.0	Nitrite as N	mg/L	2.56	2.50	103	90 - 110	X439111	26-Sep-24	
EPA 300.0	Sulfate as SO4	mg/L	10.7	10.0	107	90 - 110	X437126	11-Sep-24	
EPA 300.0	Sulfate as SO4	mg/L	10.2	10.0	102	90 - 110	X439111	26-Sep-24	

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0	<10.0	UDL	20	X438150 - X4I0153-01	23-Sep-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	32.9	32.9	0.0	20	X437221 - X4I0153-02	13-Sep-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	32.9	32.9	0.0	20	X437221 - X4I0153-02	13-Sep-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X437221 - X4I0153-02	13-Sep-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X437221 - X4I0153-02	13-Sep-24	
SM 2540 C	Total Diss. Solids	mg/L	207	212	2.4	10	X437195 - X4I0153-03	16-Sep-24	
SM 2540 C	Total Diss. Solids	mg/L	320	329	2.8	10	X437195 - X4I0168-02	16-Sep-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X437198 - X4I0153-03	16-Sep-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X437198 - X4I0168-02	16-Sep-24	
SM 4500 H B	pH @19.9°C	pH Units	6.6	6.6	0.3	20	X437221 - X4I0153-02	13-Sep-24	

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	47.6	28.7	20.0	95	70 - 130	X438157 - X4I0153-01	23-Sep-24	
EPA 200.7	Calcium	mg/L	149	130	20.0	95	70 - 130	X438157 - X4I0197-04	23-Sep-24	
EPA 200.7	Magnesium	mg/L	27.1	6.75	20.0	102	70 - 130	X438157 - X4I0153-01	23-Sep-24	
EPA 200.7	Magnesium	mg/L	20.7	<0.500	20.0	104	70 - 130	X438157 - X4I0197-04	23-Sep-24	
EPA 200.7	Potassium	mg/L	20.2	1.07	20.0	95.7	70 - 130	X438157 - X4I0153-01	23-Sep-24	
EPA 200.7	Potassium	mg/L	33.1	13.4	20.0	98.7	70 - 130	X438157 - X4I0197-04	23-Sep-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	<0.080	1.00	101	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Aluminum	mg/L	1.02	<0.080	1.00	102	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Barium	mg/L	1.18	0.196	1.00	98.5	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Barium	mg/L	1.09	0.101	1.00	98.9	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Beryllium	mg/L	1.02	<0.00200	1.00	102	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Beryllium	mg/L	1.02	<0.00200	1.00	102	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Boron	mg/L	1.01	<0.0400	1.00	98.8	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Boron	mg/L	0.996	<0.0400	1.00	98.7	70 - 130	X439009 - X4I0153-02	23-Sep-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0153**
Reported: 02-Oct-24 16:34

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	Cadmium	mg/L	0.987	<0.0020	1.00	98.7	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Cadmium	mg/L	0.983	<0.0020	1.00	98.3	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Calcium	mg/L	48.3	29.4	20.0	94.9	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Calcium	mg/L	29.9	10.4	20.0	97.5	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Chromium	mg/L	0.984	<0.0060	1.00	98.4	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Chromium	mg/L	0.993	<0.0060	1.00	99.3	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Cobalt	mg/L	0.966	<0.0060	1.00	96.6	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Cobalt	mg/L	0.956	<0.0060	1.00	95.6	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Copper	mg/L	0.974	<0.0100	1.00	97.4	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Copper	mg/L	0.976	<0.0100	1.00	97.6	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Iron	mg/L	9.73	<0.100	10.0	97.3	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Iron	mg/L	10.0	<0.100	10.0	100	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Lead	mg/L	0.983	<0.0075	1.00	98.3	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Lead	mg/L	0.975	<0.0075	1.00	97.5	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Lithium	mg/L	0.981	<0.040	1.00	98.1	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Lithium	mg/L	0.934	<0.040	1.00	93.4	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Magnesium	mg/L	26.2	6.70	20.0	97.3	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Magnesium	mg/L	21.7	2.10	20.0	98.1	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Manganese	mg/L	0.987	<0.0080	1.00	98.0	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Manganese	mg/L	0.987	<0.0080	1.00	98.7	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Molybdenum	mg/L	1.01	<0.0080	1.00	100	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Molybdenum	mg/L	0.987	<0.0080	1.00	98.7	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Nickel	mg/L	0.966	<0.0100	1.00	96.6	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Nickel	mg/L	0.957	<0.0100	1.00	95.7	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Potassium	mg/L	20.1	0.95	20.0	95.6	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Potassium	mg/L	20.5	0.78	20.0	98.6	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Silver	mg/L	0.0539	<0.0050	0.0500	108	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Silver	mg/L	0.0533	<0.0050	0.0500	107	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Sodium	mg/L	49.6	31.6	19.0	95.1	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Sodium	mg/L	28.9	10.1	19.0	98.8	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Vanadium	mg/L	1.00	<0.0050	1.00	100	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Vanadium	mg/L	1.00	<0.0050	1.00	100	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Zinc	mg/L	1.01	<0.0100	1.00	101	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Zinc	mg/L	1.00	<0.0100	1.00	100	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.8	Antimony	mg/L	0.0263	<0.00100	0.0250	102	70 - 130	X437193 - X4I0082-01	17-Sep-24	
EPA 200.8	Antimony	mg/L	0.0247	<0.00100	0.0250	98.7	70 - 130	X437193 - X4I0153-02	17-Sep-24	
EPA 200.8	Arsenic	mg/L	0.0242	<0.00100	0.0250	96.1	70 - 130	X437193 - X4I0082-01	17-Sep-24	
EPA 200.8	Arsenic	mg/L	0.0257	<0.00100	0.0250	103	70 - 130	X437193 - X4I0153-02	17-Sep-24	
EPA 200.8	Selenium	mg/L	0.0276	0.00456	0.0250	92.2	70 - 130	X437193 - X4I0082-01	17-Sep-24	
EPA 200.8	Selenium	mg/L	0.0269	<0.00100	0.0250	106	70 - 130	X437193 - X4I0153-02	17-Sep-24	
EPA 200.8	Thallium	mg/L	0.0234	<0.000200	0.0250	93.6	70 - 130	X437193 - X4I0082-01	17-Sep-24	
EPA 200.8	Thallium	mg/L	0.0239	<0.000200	0.0250	95.4	70 - 130	X437193 - X4I0153-02	17-Sep-24	
EPA 200.8	Uranium	mg/L	0.0757	0.0526	0.0250	92.3	70 - 130	X437193 - X4I0082-01	17-Sep-24	
EPA 200.8	Uranium	mg/L	0.0240	<0.000100	0.0250	95.8	70 - 130	X437193 - X4I0153-02	17-Sep-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00200	<0.000200	0.00200	100	70 - 130	X437205 - X4I0108-01	20-Sep-24	
EPA 245.1	Mercury	mg/L	0.00201	<0.000200	0.00200	100	70 - 130	X437205 - X4I0153-03	20-Sep-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0153**
Reported: 02-Oct-24 16:34

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.103	<0.0050	0.100	103	79 - 121	X437239 - X4I0138-01	19-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.0989	<0.0050	0.100	98.9	90 - 110	X438003 - X4I0153-01	17-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.0987	<0.0050	0.100	98.7	90 - 110	X438003 - X4I0153-02	17-Sep-24	
EPA 350.1	Ammonia as N	mg/L	1.04	<0.030	1.00	102	90 - 110	X437176 - X4I0133-02	13-Sep-24	
EPA 350.1	Ammonia as N	mg/L	1.09	0.099	1.00	98.8	90 - 110	X437176 - X4I0133-01	13-Sep-24	
OIA 1677	Cyanide (WAD)	mg/L	0.100	0.0050	0.100	95.0	82 - 118	X438183 - X4I0082-01	20-Sep-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.29	0.20	3.00	103	90 - 110	X437126 - X4I0125-01	11-Sep-24	
EPA 300.0	Chloride	mg/L	3.92	0.73	3.00	107	90 - 110	X437126 - X4I0154-01	11-Sep-24	
EPA 300.0	Chloride	mg/L	10.9	8.04	3.00	96.9	90 - 110	X439111 - X4I0373-03	26-Sep-24	
EPA 300.0	Chloride	mg/L	8.92	5.95	3.00	99.0	90 - 110	X439111 - X4I0373-04	26-Sep-24	
EPA 300.0	Fluoride	mg/L	2.11	<0.100	2.00	103	90 - 110	X437126 - X4I0125-01	11-Sep-24	
EPA 300.0	Fluoride	mg/L	2.30	0.255	2.00	102	90 - 110	X437126 - X4I0154-01	11-Sep-24	
EPA 300.0	Fluoride	mg/L	5.13	3.14	2.00	99.5	90 - 110	X439111 - X4I0373-03	26-Sep-24	
EPA 300.0	Fluoride	mg/L	2.60	0.556	2.00	102	90 - 110	X439111 - X4I0373-04	26-Sep-24	
EPA 300.0	Nitrate as N	mg/L	2.13	0.070	2.00	103	90 - 110	X437126 - X4I0125-01	11-Sep-24	
EPA 300.0	Nitrate as N	mg/L	2.07	<0.050	2.00	102	90 - 110	X437126 - X4I0154-01	11-Sep-24	
EPA 300.0	Nitrate as N	mg/L	2.10	0.096	2.00	100	90 - 110	X439111 - X4I0373-03	26-Sep-24	
EPA 300.0	Nitrate as N	mg/L	1.99	<0.050	2.00	98.3	90 - 110	X439111 - X4I0373-04	26-Sep-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.21	<0.100	4.00	104	90 - 110	X437126 - X4I0125-01	11-Sep-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.17	<0.100	4.00	104	90 - 110	X437126 - X4I0154-01	11-Sep-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.11	<0.100	4.00	100	90 - 110	X439111 - X4I0373-03	26-Sep-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.97	<0.100	4.00	99.3	90 - 110	X439111 - X4I0373-04	26-Sep-24	
EPA 300.0	Nitrite as N	mg/L	2.08	<0.050	2.00	104	90 - 110	X437126 - X4I0125-01	11-Sep-24	
EPA 300.0	Nitrite as N	mg/L	2.09	<0.050	2.00	105	90 - 110	X437126 - X4I0154-01	11-Sep-24	
EPA 300.0	Nitrite as N	mg/L	2.01	<0.050	2.00	101	90 - 110	X439111 - X4I0373-03	26-Sep-24	
EPA 300.0	Nitrite as N	mg/L	1.98	<0.050	2.00	99.1	90 - 110	X439111 - X4I0373-04	26-Sep-24	
EPA 300.0	Sulfate as SO4	mg/L	12.7	1.69	10.0	110	90 - 110	X437126 - X4I0125-01	11-Sep-24	
EPA 300.0	Sulfate as SO4	mg/L	10.9	0.34	10.0	105	90 - 110	X437126 - X4I0154-01	11-Sep-24	
EPA 300.0	Sulfate as SO4	mg/L	30.9	20.6	10.0	103	90 - 110	X439111 - X4I0373-03	26-Sep-24	
EPA 300.0	Sulfate as SO4	mg/L	19.2	8.92	10.0	103	90 - 110	X439111 - X4I0373-04	26-Sep-24	

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	48.4	47.6	20.0	2.0	20	99	X438157 - X4I0153-01	
EPA 200.7	Magnesium	mg/L	27.6	27.1	20.0	2.0	20	104	X438157 - X4I0153-01	
EPA 200.7	Potassium	mg/L	20.6	20.2	20.0	1.9	20	97.6	X438157 - X4I0153-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	1.01	1.00	0.5	20	101	X439009 - X4I0153-01	
EPA 200.7	Barium	mg/L	1.17	1.18	1.00	0.6	20	97.8	X439009 - X4I0153-01	
EPA 200.7	Beryllium	mg/L	1.02	1.02	1.00	0.4	20	102	X439009 - X4I0153-01	
EPA 200.7	Boron	mg/L	1.01	1.01	1.00	0.3	20	99.0	X439009 - X4I0153-01	
EPA 200.7	Cadmium	mg/L	0.975	0.987	1.00	1.2	20	97.5	X439009 - X4I0153-01	
EPA 200.7	Calcium	mg/L	48.7	48.3	20.0	0.7	20	96.6	X439009 - X4I0153-01	
EPA 200.7	Chromium	mg/L	0.986	0.984	1.00	0.2	20	98.6	X439009 - X4I0153-01	

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0153**
Reported: 02-Oct-24 16:34

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Cobalt	mg/L	0.953	0.966	1.00	1.4	20	95.3	X439009 - X4I0153-01	
EPA 200.7	Copper	mg/L	0.974	0.974	1.00	0.0	20	97.4	X439009 - X4I0153-01	
EPA 200.7	Iron	mg/L	9.97	9.73	10.0	2.4	20	99.7	X439009 - X4I0153-01	
EPA 200.7	Lead	mg/L	0.974	0.983	1.00	0.9	20	97.4	X439009 - X4I0153-01	
EPA 200.7	Lithium	mg/L	0.977	0.981	1.00	0.3	20	97.7	X439009 - X4I0153-01	
EPA 200.7	Magnesium	mg/L	26.7	26.2	20.0	1.9	20	99.8	X439009 - X4I0153-01	
EPA 200.7	Manganese	mg/L	0.986	0.987	1.00	0.1	20	98.0	X439009 - X4I0153-01	
EPA 200.7	Molybdenum	mg/L	0.999	1.01	1.00	0.6	20	99.5	X439009 - X4I0153-01	
EPA 200.7	Nickel	mg/L	0.953	0.966	1.00	1.4	20	95.3	X439009 - X4I0153-01	
EPA 200.7	Potassium	mg/L	20.7	20.1	20.0	2.9	20	98.5	X439009 - X4I0153-01	
EPA 200.7	Silver	mg/L	0.0530	0.0539	0.0500	1.6	20	106	X439009 - X4I0153-01	
EPA 200.7	Sodium	mg/L	49.9	49.6	19.0	0.6	20	96.7	X439009 - X4I0153-01	
EPA 200.7	Vanadium	mg/L	1.00	1.00	1.00	0.4	20	100	X439009 - X4I0153-01	
EPA 200.7	Zinc	mg/L	1.00	1.01	1.00	1.0	20	100	X439009 - X4I0153-01	
EPA 200.8	Antimony	mg/L	0.0265	0.0263	0.0250	1.1	20	103	X437193 - X4I0082-01	
EPA 200.8	Arsenic	mg/L	0.0245	0.0242	0.0250	1.2	20	97.2	X437193 - X4I0082-01	
EPA 200.8	Selenium	mg/L	0.0269	0.0276	0.0250	2.7	20	89.2	X437193 - X4I0082-01	
EPA 200.8	Thallium	mg/L	0.0233	0.0234	0.0250	0.6	20	93.0	X437193 - X4I0082-01	
EPA 200.8	Uranium	mg/L	0.0753	0.0757	0.0250	0.5	20	90.7	X437193 - X4I0082-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00198	0.00200	0.00200	1.0	20	99.2	X437205 - X4I0108-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.102	0.103	0.100	1.0	11	102	X437239 - X4I0138-01	
EPA 335.4	Cyanide (total)	mg/L	0.106	0.0989	0.100	7.2	20	106	X438003 - X4I0153-01	
EPA 350.1	Ammonia as N	mg/L	1.00	1.04	1.00	3.7	20	98.6	X437176 - X4I0133-02	
OIA 1677	Cyanide (WAD)	mg/L	0.110	0.100	0.100	9.5	11	105	X438183 - X4I0082-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.36	3.29	3.00	2.3	20	105	X437126 - X4I0125-01	
EPA 300.0	Chloride	mg/L	11.0	10.9	3.00	0.5	20	98.7	X439111 - X4I0373-03	
EPA 300.0	Fluoride	mg/L	2.16	2.11	2.00	2.4	20	105	X437126 - X4I0125-01	
EPA 300.0	Fluoride	mg/L	5.17	5.13	2.00	0.8	20	101	X439111 - X4I0373-03	
EPA 300.0	Nitrate as N	mg/L	2.18	2.13	2.00	2.4	20	106	X437126 - X4I0125-01	
EPA 300.0	Nitrate as N	mg/L	2.14	2.10	2.00	2.2	20	102	X439111 - X4I0373-03	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.31	4.21	4.00	2.3	20	106	X437126 - X4I0125-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.18	4.11	4.00	1.7	20	102	X439111 - X4I0373-03	
EPA 300.0	Nitrite as N	mg/L	2.13	2.08	2.00	2.3	20	107	X437126 - X4I0125-01	
EPA 300.0	Nitrite as N	mg/L	2.04	2.01	2.00	1.1	20	102	X439111 - X4I0373-03	
EPA 300.0	Sulfate as SO4	mg/L	12.9	12.7	10.0	2.0	20	112	X437126 - X4I0125-01	M1
EPA 300.0	Sulfate as SO4	mg/L	31.1	30.9	10.0	0.7	20	105	X439111 - X4I0373-03	

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4I0153**
Victor, CO 80860	Reported: 02-Oct-24 16:34

Notes and Definitions

H1	Sample analysis performed past holding time.
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.
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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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0221**
Reported: 26-Sep-24 16:14

Client Sample ID: **GVMW-8B**
SVL Sample ID: **X4I0221-01 (Ground Water)**

Sampled: 12-Sep-24 14:01
Received: 13-Sep-24
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**	42.5	mg/L	0.100	0.069		X438196	SJN	09/25/24 15:24	
EPA 200.7	**Magnesium**	6.79	mg/L	0.500	0.090		X438196	SJN	09/25/24 15:24	
EPA 200.7	**Potassium**	1.21	mg/L	0.50	0.18		X438196	SJN	09/25/24 15:24	
SM 2340 B	**Hardness (as CaCO3)**	139	mg/L	2.31	0.543		N/A		09/23/24 11:49	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X439009	SJN	09/23/24 11:49	
EPA 200.7	**Barium**	0.0059	mg/L	0.0020	0.0019		X439009	SJN	09/23/24 11:49	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X439009	SJN	09/23/24 11:49	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X439009	SJN	09/23/24 11:49	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X439009	SJN	09/23/24 11:49	
EPA 200.7	**Calcium**	44.6	mg/L	0.100	0.069		X439009	SJN	09/23/24 11:49	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X439009	SJN	09/23/24 11:49	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X439009	SJN	09/23/24 11:49	
EPA 200.7	**Copper**	0.0234	mg/L	0.0100	0.0027		X439009	SJN	09/23/24 11:49	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X439009	SJN	09/23/24 11:49	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X439009	SJN	09/23/24 11:49	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X439009	SJN	09/23/24 11:49	
EPA 200.7	**Magnesium**	7.03	mg/L	0.500	0.090		X439009	SJN	09/23/24 11:49	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X439009	SJN	09/23/24 11:49	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X439009	SJN	09/23/24 11:49	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X439009	SJN	09/23/24 11:49	
EPA 200.7	**Potassium**	1.33	mg/L	0.50	0.18		X439009	SJN	09/23/24 11:49	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X439009	SJN	09/23/24 11:49	
EPA 200.7	**Sodium**	24.9	mg/L	0.50	0.12		X439009	SJN	09/23/24 11:49	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X439009	SJN	09/23/24 11:49	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X439009	SJN	09/23/24 11:49	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X438092	SMU	09/23/24 16:39	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X438092	SMU	09/23/24 16:39	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X438092	SMU	09/23/24 16:39	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X438092	SMU	09/23/24 16:39	
EPA 200.8	**Uranium**	0.00261	mg/L	0.000100	0.000052		X438092	SMU	09/23/24 16:39	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X437234	MAC	09/23/24 16:36	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X437240	DD	09/19/24 14:31	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X438003	DD	09/16/24 13:41	
EPA 350.1	**Ammonia as N**	0.076	mg/L	0.030	0.013		X438053	DD	09/25/24 10:51	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X438183	DD	09/20/24 11:57	
SM 2310 B	**Acidity to pH 8.3**	-43.2	mg/L as CaCO3	10.0			X438151	MWD	09/23/24 07:29	
SM 2320 B	**Total Alkalinity**	37.2	mg/L as CaCO3	1.0			X438040	MWD	09/17/24 17:49	
SM 2320 B	**Bicarbonate**	37.2	mg/L as CaCO3	1.0			X438040	MWD	09/17/24 17:49	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X438040	MWD	09/17/24 17:49	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X438040	MWD	09/17/24 17:49	
SM 2540 C	**Total Diss. Solids**	279	mg/L	10			X438014	TJL	09/17/24 13:00	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X438015	TJL	09/17/24 12:20	
SM 4500 H B	**pH @22.1°C**	6.8	pH Units				X438040	MWD	09/17/24 17:49	H5

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

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Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0221**
Reported: 26-Sep-24 16:14

Client Sample ID: **GVMW-8B**
SVL Sample ID: **X4I0221-01 (Ground Water)**

Sampled: 12-Sep-24 14:01
Received: 13-Sep-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	44.9	mg/L	2.00	0.22	10	X437174	RS	09/13/24 14:25	
EPA 300.0	**Fluoride**	2.18	mg/L	0.100	0.017		X437174	RS	09/13/24 14:09	
EPA 300.0	**Nitrate as N**	2.24	mg/L	0.050	0.013		X437174	RS	09/13/24 14:09	
EPA 300.0	**Nitrate+Nitrite as N**	2.24	mg/L	0.100	0.044		X437174	RS	09/13/24 14:09	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X437174	RS	09/13/24 14:09	
EPA 300.0	**Sulfate as SO4**	93.0	mg/L	3.00	1.80	10	X437174	RS	09/13/24 14:25	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 3.81 meq/L Anion Sum: 4.22 meq/L C/A Balance: -5.09 % Calculated TDS: 249 TDS/cTDS: 1.12

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0221**
Reported: 26-Sep-24 16:14

Client Sample ID: **GVMW-8A**
SVL Sample ID: **X4I0221-02 (Ground Water)**

Sampled: 12-Sep-24 13:23
Received: 13-Sep-24
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**	46.3	mg/L	0.100	0.069		X438196	SJN	09/25/24 15:27	
EPA 200.7	**Magnesium**	6.01	mg/L	0.500	0.090		X438196	SJN	09/25/24 15:27	
EPA 200.7	**Potassium**	0.71	mg/L	0.50	0.18		X438196	SJN	09/25/24 15:27	
SM 2340 B	**Hardness (as CaCO3)**	145	mg/L	2.31	0.543		N/A		09/25/24 15:27	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X439009	SJN	09/23/24 11:53	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X439009	SJN	09/23/24 11:53	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X439009	SJN	09/23/24 11:53	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X439009	SJN	09/23/24 11:53	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X439009	SJN	09/23/24 11:53	
EPA 200.7	**Calcium**	47.9	mg/L	0.100	0.069		X439009	SJN	09/23/24 11:53	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X439009	SJN	09/23/24 11:53	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X439009	SJN	09/23/24 11:53	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X439009	SJN	09/23/24 11:53	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X439009	SJN	09/23/24 11:53	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X439009	SJN	09/23/24 11:53	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X439009	SJN	09/23/24 11:53	
EPA 200.7	**Magnesium**	6.15	mg/L	0.500	0.090		X439009	SJN	09/23/24 11:53	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X439009	SJN	09/23/24 11:53	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X439009	SJN	09/23/24 11:53	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X439009	SJN	09/23/24 11:53	
EPA 200.7	**Potassium**	0.70	mg/L	0.50	0.18		X439009	SJN	09/23/24 11:53	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X439009	SJN	09/23/24 11:53	
EPA 200.7	**Sodium**	24.1	mg/L	0.50	0.12		X439009	SJN	09/23/24 11:53	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X439009	SJN	09/23/24 11:53	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X439009	SJN	09/23/24 11:53	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X438092	SMU	09/23/24 16:42	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X438092	SMU	09/23/24 16:42	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X438092	SMU	09/23/24 16:42	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X438092	SMU	09/23/24 16:42	
EPA 200.8	**Uranium**	0.00483	mg/L	0.000100	0.000052		X438092	SMU	09/23/24 16:42	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X437234	MAC	09/23/24 16:38	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X437240	DD	09/19/24 14:33	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X438003	DD	09/16/24 13:43	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X438053	DD	09/25/24 11:03	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X438183	DD	09/20/24 11:59	
SM 2310 B	**Acidity to pH 8.3**	-58.1	mg/L as CaCO3	10.0			X438151	MWD	09/23/24 07:29	
SM 2320 B	**Total Alkalinity**	48.6	mg/L as CaCO3	1.0			X438040	MWD	09/17/24 17:54	
SM 2320 B	**Bicarbonate**	48.6	mg/L as CaCO3	1.0			X438040	MWD	09/17/24 17:54	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X438040	MWD	09/17/24 17:54	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X438040	MWD	09/17/24 17:54	
SM 2540 C	**Total Diss. Solids**	277	mg/L	10			X438014	TJL	09/17/24 13:00	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X438015	TJL	09/17/24 12:20	
SM 4500 H B	**pH @22.0°C**	7.1	pH Units				X438040	MWD	09/17/24 17:54	H5

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

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Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0221**
Reported: 26-Sep-24 16:14

Client Sample ID: **GVMW-8A**
SVL Sample ID: **X4I0221-02 (Ground Water)**

Sampled: 12-Sep-24 13:23
Received: 13-Sep-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	64.0	mg/L	2.00	0.22	10	X437174	RS	09/13/24 14:58	
EPA 300.0	**Fluoride**	1.91	mg/L	0.100	0.017		X437174	RS	09/13/24 14:42	
EPA 300.0	**Nitrate as N**	1.28	mg/L	0.050	0.013		X437174	RS	09/13/24 14:42	
EPA 300.0	**Nitrate+Nitrite as N**	1.28	mg/L	0.100	0.044		X437174	RS	09/13/24 14:42	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X437174	RS	09/13/24 14:42	
EPA 300.0	**Sulfate as SO4**	64.6	mg/L	3.00	1.80	10	X437174	RS	09/13/24 14:58	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 3.88 meq/L Anion Sum: 4.31 meq/L C/A Balance: -5.24 % Calculated TDS: 243 TDS/cTDS: 1.14

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X410221**
Reported: 26-Sep-24 16:14

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X438196	25-Sep-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X438196	25-Sep-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X438196	25-Sep-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X439009	23-Sep-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X439009	23-Sep-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X439009	23-Sep-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X439009	23-Sep-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X439009	23-Sep-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X439009	23-Sep-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X439009	23-Sep-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X439009	23-Sep-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X439009	23-Sep-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X439009	23-Sep-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X439009	23-Sep-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X439009	23-Sep-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X439009	23-Sep-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X439009	23-Sep-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X439009	23-Sep-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X439009	23-Sep-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X439009	23-Sep-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X439009	23-Sep-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X439009	23-Sep-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X439009	23-Sep-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X439009	23-Sep-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X438092	23-Sep-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X438092	23-Sep-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X438092	23-Sep-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X438092	23-Sep-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X438092	23-Sep-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X437234	23-Sep-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X437240	19-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X438003	16-Sep-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X438053	25-Sep-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X438183	20-Sep-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X438151	23-Sep-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X438040	18-Sep-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X438040	18-Sep-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X438040	18-Sep-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X438040	18-Sep-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X438014	17-Sep-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X438015	17-Sep-24	
SM 4500 H B	pH @21.6°C	pH Units	5.9			X438040	18-Sep-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X437174	13-Sep-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X437174	13-Sep-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X437174	13-Sep-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X437174	13-Sep-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X437174	13-Sep-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X437174	13-Sep-24	

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Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X410221**
Reported: 26-Sep-24 16:14

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	18.8	20.0	94	85 - 115	X438196	25-Sep-24	
EPA 200.7	Magnesium	mg/L	19.2	20.0	96.2	85 - 115	X438196	25-Sep-24	
EPA 200.7	Potassium	mg/L	19.0	20.0	94.9	85 - 115	X438196	25-Sep-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	1.00	1.00	100	85 - 115	X439009	23-Sep-24	
EPA 200.7	Barium	mg/L	0.985	1.00	98.5	85 - 115	X439009	23-Sep-24	
EPA 200.7	Beryllium	mg/L	1.04	1.00	104	85 - 115	X439009	23-Sep-24	
EPA 200.7	Boron	mg/L	0.984	1.00	98.4	85 - 115	X439009	23-Sep-24	
EPA 200.7	Cadmium	mg/L	0.978	1.00	97.8	85 - 115	X439009	23-Sep-24	
EPA 200.7	Calcium	mg/L	19.6	20.0	97.8	85 - 115	X439009	23-Sep-24	
EPA 200.7	Chromium	mg/L	0.997	1.00	99.7	85 - 115	X439009	23-Sep-24	
EPA 200.7	Cobalt	mg/L	0.961	1.00	96.1	85 - 115	X439009	23-Sep-24	
EPA 200.7	Copper	mg/L	1.00	1.00	100	85 - 115	X439009	23-Sep-24	
EPA 200.7	Iron	mg/L	9.95	10.0	99.5	85 - 115	X439009	23-Sep-24	
EPA 200.7	Lead	mg/L	0.972	1.00	97.2	85 - 115	X439009	23-Sep-24	
EPA 200.7	Lithium	mg/L	0.939	1.00	93.9	85 - 115	X439009	23-Sep-24	
EPA 200.7	Magnesium	mg/L	19.2	20.0	95.9	85 - 115	X439009	23-Sep-24	
EPA 200.7	Manganese	mg/L	0.992	1.00	99.2	85 - 115	X439009	23-Sep-24	
EPA 200.7	Molybdenum	mg/L	0.995	1.00	99.5	85 - 115	X439009	23-Sep-24	
EPA 200.7	Nickel	mg/L	0.971	1.00	97.1	85 - 115	X439009	23-Sep-24	
EPA 200.7	Potassium	mg/L	19.6	20.0	98.1	85 - 115	X439009	23-Sep-24	
EPA 200.7	Silver	mg/L	0.0524	0.0500	105	85 - 115	X439009	23-Sep-24	
EPA 200.7	Sodium	mg/L	19.1	19.0	101	85 - 115	X439009	23-Sep-24	
EPA 200.7	Vanadium	mg/L	1.01	1.00	101	85 - 115	X439009	23-Sep-24	
EPA 200.7	Zinc	mg/L	0.986	1.00	98.6	85 - 115	X439009	23-Sep-24	
EPA 200.8	Antimony	mg/L	0.0274	0.0250	110	85 - 115	X438092	23-Sep-24	
EPA 200.8	Arsenic	mg/L	0.0284	0.0250	114	85 - 115	X438092	23-Sep-24	
EPA 200.8	Selenium	mg/L	0.0265	0.0250	106	85 - 115	X438092	23-Sep-24	
EPA 200.8	Thallium	mg/L	0.0276	0.0250	110	85 - 115	X438092	23-Sep-24	
EPA 200.8	Uranium	mg/L	0.0252	0.0250	101	85 - 115	X438092	23-Sep-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00204	0.00200	102	85 - 115	X437234	23-Sep-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0990	0.100	99.0	90 - 110	X437240	19-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.109	0.100	109	90 - 110	X438003	16-Sep-24	
EPA 350.1	Ammonia as N	mg/L	0.977	1.00	97.7	90 - 110	X438053	25-Sep-24	
OIA 1677	Cyanide (WAD)	mg/L	0.103	0.100	103	90 - 110	X438183	20-Sep-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	897	884	102	95.4 - 104	X438151	23-Sep-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	98.8	99.3	99.5	96.4 - 105	X438040	17-Sep-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.80	9.93	98.7	96.4 - 105	X438040	18-Sep-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X438015	17-Sep-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.11	3.00	104	90 - 110	X437174	13-Sep-24	
EPA 300.0	Fluoride	mg/L	2.04	2.00	102	90 - 110	X437174	13-Sep-24	
EPA 300.0	Nitrate as N	mg/L	2.06	2.00	103	90 - 110	X437174	13-Sep-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.65	4.50	103	90 - 110	X437174	13-Sep-24	
EPA 300.0	Nitrite as N	mg/L	2.59	2.50	104	90 - 110	X437174	13-Sep-24	
EPA 300.0	Sulfate as SO4	mg/L	10.5	10.0	105	90 - 110	X437174	13-Sep-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0221**
Reported: 26-Sep-24 16:14

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	149	149	0.0	20	X438151 - X4I0176-02	23-Sep-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	48.2	48.6	0.8	20	X438040 - X4I0221-02	17-Sep-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	48.2	48.6	0.8	20	X438040 - X4I0221-02	17-Sep-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X438040 - X4I0221-02	17-Sep-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X438040 - X4I0221-02	17-Sep-24	
SM 2540 C	Total Diss. Solids	mg/L	288	277	3.9	10	X438014 - X4I0221-02	17-Sep-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X438015 - X4I0221-02	17-Sep-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X438015 - X4I0187-01	17-Sep-24	
SM 4500 H B	pH @22.1°C	pH Units	7.1	7.1	0.1	20	X438040 - X4I0221-02	17-Sep-24	

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	62.3	42.5	20.0	99	70 - 130	X438196 - X4I0221-01	25-Sep-24	
EPA 200.7	Calcium	mg/L	33.3	14.2	20.0	96	70 - 130	X438196 - X4I0230-06	25-Sep-24	
EPA 200.7	Magnesium	mg/L	27.0	6.79	20.0	101	70 - 130	X438196 - X4I0221-01	25-Sep-24	
EPA 200.7	Magnesium	mg/L	20.2	<0.500	20.0	98.9	70 - 130	X438196 - X4I0230-06	25-Sep-24	
EPA 200.7	Potassium	mg/L	20.5	1.21	20.0	96.4	70 - 130	X438196 - X4I0221-01	25-Sep-24	
EPA 200.7	Potassium	mg/L	19.9	<0.50	20.0	98.0	70 - 130	X438196 - X4I0230-06	25-Sep-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	<0.080	1.00	101	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Aluminum	mg/L	1.02	<0.080	1.00	102	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Barium	mg/L	1.18	0.196	1.00	98.5	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Barium	mg/L	1.09	0.101	1.00	98.9	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Beryllium	mg/L	1.02	<0.00200	1.00	102	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Beryllium	mg/L	1.02	<0.00200	1.00	102	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Boron	mg/L	1.01	<0.0400	1.00	98.8	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Boron	mg/L	0.996	<0.0400	1.00	98.7	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Cadmium	mg/L	0.987	<0.0020	1.00	98.7	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Cadmium	mg/L	0.983	<0.0020	1.00	98.3	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Calcium	mg/L	48.3	29.4	20.0	94.9	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Calcium	mg/L	29.9	10.4	20.0	97.5	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Chromium	mg/L	0.984	<0.0060	1.00	98.4	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Chromium	mg/L	0.993	<0.0060	1.00	99.3	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Cobalt	mg/L	0.966	<0.0060	1.00	96.6	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Cobalt	mg/L	0.956	<0.0060	1.00	95.6	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Copper	mg/L	0.974	<0.0100	1.00	97.4	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Copper	mg/L	0.976	<0.0100	1.00	97.6	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Iron	mg/L	9.73	<0.100	10.0	97.3	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Iron	mg/L	10.0	<0.100	10.0	100	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Lead	mg/L	0.983	<0.0075	1.00	98.3	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Lead	mg/L	0.975	<0.0075	1.00	97.5	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Lithium	mg/L	0.981	<0.040	1.00	98.1	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Lithium	mg/L	0.934	<0.040	1.00	93.4	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Magnesium	mg/L	26.2	6.70	20.0	97.3	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Magnesium	mg/L	21.7	2.10	20.0	98.1	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Manganese	mg/L	0.987	<0.0080	1.00	98.0	70 - 130	X439009 - X4I0153-01	23-Sep-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0221**
Reported: 26-Sep-24 16:14

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Manganese	mg/L	0.987	<0.0080	1.00	98.7	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Molybdenum	mg/L	1.01	<0.0080	1.00	100	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Molybdenum	mg/L	0.987	<0.0080	1.00	98.7	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Nickel	mg/L	0.966	<0.0100	1.00	96.6	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Nickel	mg/L	0.957	<0.0100	1.00	95.7	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Potassium	mg/L	20.1	0.95	20.0	95.6	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Potassium	mg/L	20.5	0.78	20.0	98.6	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Silver	mg/L	0.0539	<0.0050	0.0500	108	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Silver	mg/L	0.0533	<0.0050	0.0500	107	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Sodium	mg/L	49.6	31.6	19.0	95.1	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Sodium	mg/L	28.9	10.1	19.0	98.8	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Vanadium	mg/L	1.00	<0.0050	1.00	100	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Vanadium	mg/L	1.00	<0.0050	1.00	100	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Zinc	mg/L	1.01	<0.0100	1.00	101	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Zinc	mg/L	1.00	<0.0100	1.00	100	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.8	Antimony	mg/L	0.0286	<0.00100	0.0250	114	70 - 130	X438092 - X4I0187-01	23-Sep-24	
EPA 200.8	Antimony	mg/L	0.0278	<0.00100	0.0250	111	70 - 130	X438092 - X4I0221-02	23-Sep-24	
EPA 200.8	Arsenic	mg/L	0.0270	<0.00100	0.0250	105	70 - 130	X438092 - X4I0187-01	23-Sep-24	
EPA 200.8	Arsenic	mg/L	0.0282	<0.00100	0.0250	113	70 - 130	X438092 - X4I0221-02	23-Sep-24	
EPA 200.8	Selenium	mg/L	0.0247	<0.00100	0.0250	98.8	70 - 130	X438092 - X4I0187-01	23-Sep-24	
EPA 200.8	Selenium	mg/L	0.0261	<0.00100	0.0250	105	70 - 130	X438092 - X4I0221-02	23-Sep-24	
EPA 200.8	Thallium	mg/L	0.0275	<0.000200	0.0250	110	70 - 130	X438092 - X4I0187-01	23-Sep-24	
EPA 200.8	Thallium	mg/L	0.0267	<0.000200	0.0250	107	70 - 130	X438092 - X4I0221-02	23-Sep-24	
EPA 200.8	Uranium	mg/L	0.0337	0.00424	0.0250	118	70 - 130	X438092 - X4I0187-01	23-Sep-24	
EPA 200.8	Uranium	mg/L	0.0336	0.00483	0.0250	115	70 - 130	X438092 - X4I0221-02	23-Sep-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00206	<0.000200	0.00200	103	70 - 130	X437234 - X4I0176-01	23-Sep-24	
EPA 245.1	Mercury	mg/L	0.00203	<0.000200	0.00200	102	70 - 130	X437234 - X4I0196-02	23-Sep-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.105	<0.0050	0.100	105	79 - 121	X437240 - X4I0202-03	19-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.0989	<0.0050	0.100	98.9	90 - 110	X438003 - X4I0153-01	17-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.0987	<0.0050	0.100	98.7	90 - 110	X438003 - X4I0153-02	17-Sep-24	
EPA 350.1	Ammonia as N	mg/L	0.998	<0.030	1.00	99.8	90 - 110	X438053 - X4I0168-01	25-Sep-24	
EPA 350.1	Ammonia as N	mg/L	1.05	<0.030	1.00	105	90 - 110	X438053 - X4I0168-02	25-Sep-24	
OIA 1677	Cyanide (WAD)	mg/L	0.100	0.0050	0.100	95.0	82 - 118	X438183 - X4I0082-01	20-Sep-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.27	0.22	3.00	102	90 - 110	X437174 - X4I0223-01	13-Sep-24	
EPA 300.0	Chloride	mg/L	5.75	2.61	3.00	105	90 - 110	X437174 - X4I0230-02	14-Sep-24	
EPA 300.0	Fluoride	mg/L	2.08	<0.100	2.00	100	90 - 110	X437174 - X4I0223-01	13-Sep-24	
EPA 300.0	Fluoride	mg/L	1.97	0.119	2.00	92.5	90 - 110	X437174 - X4I0230-02	14-Sep-24	
EPA 300.0	Nitrate as N	mg/L	2.01	<0.050	2.00	101	90 - 110	X437174 - X4I0223-01	13-Sep-24	
EPA 300.0	Nitrate as N	mg/L	3.31	1.25	2.00	103	90 - 110	X437174 - X4I0230-02	14-Sep-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.07	<0.100	4.00	102	90 - 110	X437174 - X4I0223-01	13-Sep-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	5.42	1.25	4.00	104	90 - 110	X437174 - X4I0230-02	14-Sep-24	
EPA 300.0	Nitrite as N	mg/L	2.05	<0.050	2.00	103	90 - 110	X437174 - X4I0223-01	13-Sep-24	
EPA 300.0	Nitrite as N	mg/L	2.11	<0.050	2.00	105	90 - 110	X437174 - X4I0230-02	14-Sep-24	
EPA 300.0	Sulfate as SO4	mg/L	10.9	0.75	10.0	101	90 - 110	X437174 - X4I0223-01	13-Sep-24	
EPA 300.0	Sulfate as SO4	mg/L	258	244	10.0	0.30R>S	90 - 110	X437174 - X4I0230-02	14-Sep-24	M4

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0221**
Reported: 26-Sep-24 16:14

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	60.9	62.3	20.0	2.0	20	92	X438196 - X4I0221-01	
EPA 200.7	Magnesium	mg/L	26.1	27.0	20.0	3.4	20	96.7	X438196 - X4I0221-01	
EPA 200.7	Potassium	mg/L	19.9	20.5	20.0	2.8	20	93.6	X438196 - X4I0221-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	1.01	1.00	0.5	20	101	X439009 - X4I0153-01	
EPA 200.7	Barium	mg/L	1.17	1.18	1.00	0.6	20	97.8	X439009 - X4I0153-01	
EPA 200.7	Beryllium	mg/L	1.02	1.02	1.00	0.4	20	102	X439009 - X4I0153-01	
EPA 200.7	Boron	mg/L	1.01	1.01	1.00	0.3	20	99.0	X439009 - X4I0153-01	
EPA 200.7	Cadmium	mg/L	0.975	0.987	1.00	1.2	20	97.5	X439009 - X4I0153-01	
EPA 200.7	Calcium	mg/L	48.7	48.3	20.0	0.7	20	96.6	X439009 - X4I0153-01	
EPA 200.7	Chromium	mg/L	0.986	0.984	1.00	0.2	20	98.6	X439009 - X4I0153-01	
EPA 200.7	Cobalt	mg/L	0.953	0.966	1.00	1.4	20	95.3	X439009 - X4I0153-01	
EPA 200.7	Copper	mg/L	0.974	0.974	1.00	0.0	20	97.4	X439009 - X4I0153-01	
EPA 200.7	Iron	mg/L	9.97	9.73	10.0	2.4	20	99.7	X439009 - X4I0153-01	
EPA 200.7	Lead	mg/L	0.974	0.983	1.00	0.9	20	97.4	X439009 - X4I0153-01	
EPA 200.7	Lithium	mg/L	0.977	0.981	1.00	0.3	20	97.7	X439009 - X4I0153-01	
EPA 200.7	Magnesium	mg/L	26.7	26.2	20.0	1.9	20	99.8	X439009 - X4I0153-01	
EPA 200.7	Manganese	mg/L	0.986	0.987	1.00	0.1	20	98.0	X439009 - X4I0153-01	
EPA 200.7	Molybdenum	mg/L	0.999	1.01	1.00	0.6	20	99.5	X439009 - X4I0153-01	
EPA 200.7	Nickel	mg/L	0.953	0.966	1.00	1.4	20	95.3	X439009 - X4I0153-01	
EPA 200.7	Potassium	mg/L	20.7	20.1	20.0	2.9	20	98.5	X439009 - X4I0153-01	
EPA 200.7	Silver	mg/L	0.0530	0.0539	0.0500	1.6	20	106	X439009 - X4I0153-01	
EPA 200.7	Sodium	mg/L	49.9	49.6	19.0	0.6	20	96.7	X439009 - X4I0153-01	
EPA 200.7	Vanadium	mg/L	1.00	1.00	1.00	0.4	20	100	X439009 - X4I0153-01	
EPA 200.7	Zinc	mg/L	1.00	1.01	1.00	1.0	20	100	X439009 - X4I0153-01	
EPA 200.8	Antimony	mg/L	0.0289	0.0286	0.0250	1.3	20	116	X438092 - X4I0187-01	
EPA 200.8	Arsenic	mg/L	0.0278	0.0270	0.0250	3.0	20	108	X438092 - X4I0187-01	
EPA 200.8	Selenium	mg/L	0.0254	0.0247	0.0250	2.9	20	102	X438092 - X4I0187-01	
EPA 200.8	Thallium	mg/L	0.0277	0.0275	0.0250	0.6	20	111	X438092 - X4I0187-01	
EPA 200.8	Uranium	mg/L	0.0336	0.0337	0.0250	0.2	20	117	X438092 - X4I0187-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00213	0.00206	0.00200	3.3	20	106	X437234 - X4I0176-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.105	0.105	0.100	0.0	11	105	X437240 - X4I0202-03	
EPA 335.4	Cyanide (total)	mg/L	0.106	0.0989	0.100	7.2	20	106	X438003 - X4I0153-01	
EPA 350.1	Ammonia as N	mg/L	1.02	0.998	1.00	1.7	20	102	X438053 - X4I0168-01	
OIA 1677	Cyanide (WAD)	mg/L	0.110	0.100	0.100	9.5	11	105	X438183 - X4I0082-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.32	3.27	3.00	1.7	20	103	X437174 - X4I0223-01	
EPA 300.0	Fluoride	mg/L	2.11	2.08	2.00	1.4	20	101	X437174 - X4I0223-01	
EPA 300.0	Nitrate as N	mg/L	2.07	2.01	2.00	2.9	20	104	X437174 - X4I0223-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.16	4.07	4.00	2.3	20	104	X437174 - X4I0223-01	
EPA 300.0	Nitrite as N	mg/L	2.09	2.05	2.00	1.8	20	105	X437174 - X4I0223-01	
EPA 300.0	Sulfate as SO4	mg/L	11.0	10.9	10.0	1.1	20	103	X437174 - X4I0223-01	

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4I0221**
Victor, CO 80860	Reported: 26-Sep-24 16:14

Notes and Definitions

H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
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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Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0264**
Reported: 01-Oct-24 16:51

Client Sample ID: **GVMW-25**
SVL Sample ID: **X4I0264-02 (Ground Water)**

Sampled: 16-Sep-24 12:38
Received: 17-Sep-24
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		X438196	SJN	09/25/24 16:35	
EPA 200.7	**Magnesium**	399	mg/L	0.500	0.090		X438196	SJN	09/25/24 16:35	
EPA 200.7	**Potassium**	6.81	mg/L	0.50	0.18		X438196	SJN	09/25/24 16:35	
SM 2340 B	**Hardness (as CaCO3)**	2690	mg/L	2.31	0.543		N/A		09/23/24 12:29	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	980	mg/L	0.800	0.540	10	X439009	SJN	09/23/24 12:48	
EPA 200.7	**Barium**	0.0150	mg/L	0.0020	0.0019		X439009	SJN	09/23/24 12:29	
EPA 200.7	**Beryllium**	0.661	mg/L	0.00200	0.00080		X439009	SJN	09/23/24 12:29	
EPA 200.7	**Boron**	0.0437	mg/L	0.0400	0.0078		X439009	SJN	09/23/24 12:29	
EPA 200.7	**Cadmium**	1.82	mg/L	0.0020	0.0016		X439009	SJN	09/23/24 12:29	
EPA 200.7	**Calcium**	522	mg/L	0.100	0.069		X439009	SJN	09/23/24 12:29	
EPA 200.7	**Chromium**	0.120	mg/L	0.0060	0.0020		X439009	SJN	09/23/24 12:29	
EPA 200.7	**Cobalt**	2.13	mg/L	0.0060	0.0046		X439009	SJN	09/23/24 12:29	
EPA 200.7	**Copper**	4.12	mg/L	0.0100	0.0027		X439009	SJN	09/23/24 12:29	
EPA 200.7	**Iron**	6.30	mg/L	0.100	0.056		X439009	SJN	09/23/24 12:29	
EPA 200.7	**Lead**	0.0352	mg/L	0.0075	0.0049		X439009	SJN	09/23/24 12:29	
EPA 200.7	**Lithium**	0.196	mg/L	0.040	0.025		X439009	SJN	09/23/24 12:29	
EPA 200.7	**Magnesium**	430	mg/L	0.500	0.090		X439009	SJN	09/23/24 12:29	
EPA 200.7	**Manganese**	249	mg/L	0.0800	0.0340	10	X439009	SJN	09/23/24 12:48	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X439009	SJN	09/23/24 12:29	
EPA 200.7	**Nickel**	2.79	mg/L	0.0100	0.0048		X439009	SJN	09/23/24 12:29	
EPA 200.7	**Potassium**	6.74	mg/L	0.50	0.18		X439009	SJN	09/23/24 12:29	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X439009	SJN	09/23/24 12:29	
EPA 200.7	**Sodium**	40.9	mg/L	0.50	0.12		X439009	SJN	09/23/24 12:29	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X439009	SJN	09/23/24 12:29	
EPA 200.7	**Zinc**	68.7	mg/L	0.100	0.0540	10	X439009	SJN	09/23/24 12:48	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X438092	SMU	09/23/24 17:10	
EPA 200.8	**Arsenic**	0.0218	mg/L	0.00100	0.00021		X438092	SMU	09/23/24 20:30	
EPA 200.8	**Selenium**	0.0380	mg/L	0.00100	0.00024		X438092	SMU	09/23/24 20:30	
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.000400	5	X438092	SMU	09/23/24 20:32	D17
EPA 200.8	**Uranium**	3.65	mg/L	0.000500	0.000260	5	X438092	SMU	09/23/24 20:32	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X438213	MAC	09/23/24 17:48	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @20.0°C	< 0.0500	mg/L	0.0500	0.0480	10	X439153	DD	09/30/24 14:21	D15,Q12
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X439001	DD	09/24/24 13:30	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X438185	DD	09/23/24 11:29	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X438184	DD	09/20/24 12:27	
SM 2310 B	**Acidity to pH 8.3**	6720	mg/L as CaCO3	10.0			X438151	MWD	09/23/24 07:29	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X438102	MWD	09/18/24 11:56	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X438102	MWD	09/18/24 11:56	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X438102	MWD	09/18/24 11:56	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X438102	MWD	09/18/24 11:56	
SM 2540 C	**Total Diss. Solids**	13900	mg/L	100			X438076	TJL	09/19/24 13:50	
SM 2540 D	**Total Susp. Solids**	35.0	mg/L	5.0			X438078	TJL	09/20/24 14:00	
SM 4500 H B	**pH @20.6°C**	3.4	pH Units				X438102	MWD	09/18/24 11:56	H5

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0264**
Reported: 01-Oct-24 16:51

Client Sample ID: **GVMW-25**
SVL Sample ID: **X4I0264-02 (Ground Water)**

Sampled: 16-Sep-24 12:38
Received: 17-Sep-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	24.3	mg/L	2.00	0.22	10	X438048	RS	09/17/24 19:28	
EPA 300.0	**Fluoride**	91.2	mg/L	25.0	4.25	250	X438048	RS	09/17/24 19:46	
EPA 300.0	**Nitrate as N**	3.62	mg/L	0.500	0.130	10	X438048	RS	09/17/24 19:28	D18
EPA 300.0	**Nitrate+Nitrite as N**	3.62	mg/L	1.00	0.440	10	X438048	RS	09/17/24 19:28	D18
EPA 300.0	Nitrite as N	< 0.500	mg/L	0.500	0.310	10	X438048	RS	09/17/24 19:28	
EPA 300.0	**Sulfate as SO4**	9740	mg/L	75.0	45.0	250	X438048	RS	09/17/24 19:46	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 190 meq/L Anion Sum: 209 meq/L C/A Balance: -4.62 % Calculated TDS: 10805 TDS/cTDS: 1.29

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X410264**
Reported: 01-Oct-24 16:51

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X438196	25-Sep-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X438196	25-Sep-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X438196	25-Sep-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X439009	23-Sep-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X439009	23-Sep-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X439009	23-Sep-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X439009	23-Sep-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X439009	23-Sep-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X439009	23-Sep-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X439009	23-Sep-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X439009	23-Sep-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X439009	23-Sep-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X439009	23-Sep-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X439009	23-Sep-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X439009	23-Sep-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X439009	23-Sep-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X439009	23-Sep-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X439009	23-Sep-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X439009	23-Sep-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X439009	23-Sep-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X439009	23-Sep-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X439009	23-Sep-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X439009	23-Sep-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X439009	23-Sep-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X438092	23-Sep-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X438092	23-Sep-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X438092	23-Sep-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X438092	23-Sep-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X438092	23-Sep-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X438213	23-Sep-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X439153	30-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X439001	24-Sep-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X438185	23-Sep-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X438184	20-Sep-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X438151	23-Sep-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X438102	18-Sep-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X438102	18-Sep-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X438102	18-Sep-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X438102	18-Sep-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X438076	19-Sep-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X438078	20-Sep-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X438048	17-Sep-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X438048	17-Sep-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X438048	17-Sep-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X438048	17-Sep-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X438048	17-Sep-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X438048	17-Sep-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X410264**
Reported: 01-Oct-24 16:51

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	18.8	20.0	94	85 - 115	X438196	25-Sep-24	
EPA 200.7	Magnesium	mg/L	19.2	20.0	96.2	85 - 115	X438196	25-Sep-24	
EPA 200.7	Potassium	mg/L	19.0	20.0	94.9	85 - 115	X438196	25-Sep-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	1.00	1.00	100	85 - 115	X439009	23-Sep-24	
EPA 200.7	Barium	mg/L	0.985	1.00	98.5	85 - 115	X439009	23-Sep-24	
EPA 200.7	Beryllium	mg/L	1.04	1.00	104	85 - 115	X439009	23-Sep-24	
EPA 200.7	Boron	mg/L	0.984	1.00	98.4	85 - 115	X439009	23-Sep-24	
EPA 200.7	Cadmium	mg/L	0.978	1.00	97.8	85 - 115	X439009	23-Sep-24	
EPA 200.7	Calcium	mg/L	19.6	20.0	97.8	85 - 115	X439009	23-Sep-24	
EPA 200.7	Chromium	mg/L	0.997	1.00	99.7	85 - 115	X439009	23-Sep-24	
EPA 200.7	Cobalt	mg/L	0.961	1.00	96.1	85 - 115	X439009	23-Sep-24	
EPA 200.7	Copper	mg/L	1.00	1.00	100	85 - 115	X439009	23-Sep-24	
EPA 200.7	Iron	mg/L	9.95	10.0	99.5	85 - 115	X439009	23-Sep-24	
EPA 200.7	Lead	mg/L	0.972	1.00	97.2	85 - 115	X439009	23-Sep-24	
EPA 200.7	Lithium	mg/L	0.939	1.00	93.9	85 - 115	X439009	23-Sep-24	
EPA 200.7	Magnesium	mg/L	19.2	20.0	95.9	85 - 115	X439009	23-Sep-24	
EPA 200.7	Manganese	mg/L	0.992	1.00	99.2	85 - 115	X439009	23-Sep-24	
EPA 200.7	Molybdenum	mg/L	0.995	1.00	99.5	85 - 115	X439009	23-Sep-24	
EPA 200.7	Nickel	mg/L	0.971	1.00	97.1	85 - 115	X439009	23-Sep-24	
EPA 200.7	Potassium	mg/L	19.6	20.0	98.1	85 - 115	X439009	23-Sep-24	
EPA 200.7	Silver	mg/L	0.0524	0.0500	105	85 - 115	X439009	23-Sep-24	
EPA 200.7	Sodium	mg/L	19.1	19.0	101	85 - 115	X439009	23-Sep-24	
EPA 200.7	Vanadium	mg/L	1.01	1.00	101	85 - 115	X439009	23-Sep-24	
EPA 200.7	Zinc	mg/L	0.986	1.00	98.6	85 - 115	X439009	23-Sep-24	
EPA 200.8	Antimony	mg/L	0.0274	0.0250	110	85 - 115	X438092	23-Sep-24	
EPA 200.8	Arsenic	mg/L	0.0284	0.0250	114	85 - 115	X438092	23-Sep-24	
EPA 200.8	Selenium	mg/L	0.0265	0.0250	106	85 - 115	X438092	23-Sep-24	
EPA 200.8	Thallium	mg/L	0.0276	0.0250	110	85 - 115	X438092	23-Sep-24	
EPA 200.8	Uranium	mg/L	0.0252	0.0250	101	85 - 115	X438092	23-Sep-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00207	0.00200	103	85 - 115	X438213	23-Sep-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.101	0.100	101	90 - 110	X439153	30-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X439001	24-Sep-24	
EPA 350.1	Ammonia as N	mg/L	1.09	1.00	109	90 - 110	X438185	23-Sep-24	
OIA 1677	Cyanide (WAD)	mg/L	0.104	0.100	104	90 - 110	X438184	20-Sep-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	897	884	102	95.4 - 104	X438151	23-Sep-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.3	9.93	104	96.4 - 105	X438102	18-Sep-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	413	397	104	96.4 - 105	X438102	18-Sep-24	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X438078	20-Sep-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.03	3.00	101	90 - 110	X438048	17-Sep-24	
EPA 300.0	Fluoride	mg/L	2.03	2.00	102	90 - 110	X438048	17-Sep-24	
EPA 300.0	Nitrate as N	mg/L	2.03	2.00	102	90 - 110	X438048	17-Sep-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.60	4.50	102	90 - 110	X438048	17-Sep-24	
EPA 300.0	Nitrite as N	mg/L	2.57	2.50	103	90 - 110	X438048	17-Sep-24	
EPA 300.0	Sulfate as SO4	mg/L	10.3	10.0	103	90 - 110	X438048	17-Sep-24	

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Newmont - Cripple Creek & Victor
Post Office Box 191
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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0264**
Reported: 01-Oct-24 16:51

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	149	149	0.0	20	X438151 - X4I0176-02	23-Sep-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0	<1.0	UDL	20	X438102 - X4I0262-02	18-Sep-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X438102 - X4I0262-02	18-Sep-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X438102 - X4I0262-02	18-Sep-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X438102 - X4I0262-02	18-Sep-24	
SM 2540 C	Total Diss. Solids	mg/L	227	228	0.4	10	X438076 - X4I0270-04	19-Sep-24	
SM 2540 C	Total Diss. Solids	mg/L	368	399	8.1	10	X438076 - X4I0264-01	19-Sep-24	
SM 2540 D	Total Susp. Solids	mg/L	23.0	29.0	23.1	10	X438078 - X4I0270-04	20-Sep-24	R2B
SM 2540 D	Total Susp. Solids	mg/L	7.0	7.0	0.0	10	X438078 - X4I0264-01	20-Sep-24	
SM 4500 H B	pH @20.7°C	pH Units	3.4	3.4	0.0	20	X438102 - X4I0262-02	18-Sep-24	

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	62.3	42.5	20.0	99	70 - 130	X438196 - X4I0221-01	25-Sep-24	
EPA 200.7	Calcium	mg/L	33.3	14.2	20.0	96	70 - 130	X438196 - X4I0230-06	25-Sep-24	
EPA 200.7	Magnesium	mg/L	27.0	6.79	20.0	101	70 - 130	X438196 - X4I0221-01	25-Sep-24	
EPA 200.7	Magnesium	mg/L	20.2	<0.500	20.0	98.9	70 - 130	X438196 - X4I0230-06	25-Sep-24	
EPA 200.7	Potassium	mg/L	20.5	1.21	20.0	96.4	70 - 130	X438196 - X4I0221-01	25-Sep-24	
EPA 200.7	Potassium	mg/L	19.9	<0.50	20.0	98.0	70 - 130	X438196 - X4I0230-06	25-Sep-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	<0.080	1.00	101	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Aluminum	mg/L	1.02	<0.080	1.00	102	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Barium	mg/L	1.18	0.196	1.00	98.5	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Barium	mg/L	1.09	0.101	1.00	98.9	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Beryllium	mg/L	1.02	<0.00200	1.00	102	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Beryllium	mg/L	1.02	<0.00200	1.00	102	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Boron	mg/L	1.01	<0.0400	1.00	98.8	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Boron	mg/L	0.996	<0.0400	1.00	98.7	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Cadmium	mg/L	0.987	<0.0020	1.00	98.7	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Cadmium	mg/L	0.983	<0.0020	1.00	98.3	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Calcium	mg/L	48.3	29.4	20.0	94.9	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Calcium	mg/L	29.9	10.4	20.0	97.5	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Chromium	mg/L	0.984	<0.0060	1.00	98.4	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Chromium	mg/L	0.993	<0.0060	1.00	99.3	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Cobalt	mg/L	0.966	<0.0060	1.00	96.6	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Cobalt	mg/L	0.956	<0.0060	1.00	95.6	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Copper	mg/L	0.974	<0.0100	1.00	97.4	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Copper	mg/L	0.976	<0.0100	1.00	97.6	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Iron	mg/L	9.73	<0.100	10.0	97.3	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Iron	mg/L	10.0	<0.100	10.0	100	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Lead	mg/L	0.983	<0.0075	1.00	98.3	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Lead	mg/L	0.975	<0.0075	1.00	97.5	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Lithium	mg/L	0.981	<0.040	1.00	98.1	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Lithium	mg/L	0.934	<0.040	1.00	93.4	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Magnesium	mg/L	26.2	6.70	20.0	97.3	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Magnesium	mg/L	21.7	2.10	20.0	98.1	70 - 130	X439009 - X4I0153-02	23-Sep-24	

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Newmont - Cripple Creek & Victor
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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0264**
Reported: 01-Oct-24 16:51

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Manganese	mg/L	0.987	<0.0080	1.00	98.0	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Manganese	mg/L	0.987	<0.0080	1.00	98.7	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Molybdenum	mg/L	1.01	<0.0080	1.00	100	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Molybdenum	mg/L	0.987	<0.0080	1.00	98.7	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Nickel	mg/L	0.966	<0.0100	1.00	96.6	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Nickel	mg/L	0.957	<0.0100	1.00	95.7	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Potassium	mg/L	20.1	0.95	20.0	95.6	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Potassium	mg/L	20.5	0.78	20.0	98.6	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Silver	mg/L	0.0539	<0.0050	0.0500	108	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Silver	mg/L	0.0533	<0.0050	0.0500	107	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Sodium	mg/L	49.6	31.6	19.0	95.1	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Sodium	mg/L	28.9	10.1	19.0	98.8	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Vanadium	mg/L	1.00	<0.0050	1.00	100	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Vanadium	mg/L	1.00	<0.0050	1.00	100	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Zinc	mg/L	1.01	<0.0100	1.00	101	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Zinc	mg/L	1.00	<0.0100	1.00	100	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.8	Antimony	mg/L	0.0286	<0.00100	0.0250	114	70 - 130	X438092 - X4I0187-01	23-Sep-24	
EPA 200.8	Antimony	mg/L	0.0278	<0.00100	0.0250	111	70 - 130	X438092 - X4I0221-02	23-Sep-24	
EPA 200.8	Arsenic	mg/L	0.0270	<0.00100	0.0250	105	70 - 130	X438092 - X4I0187-01	23-Sep-24	
EPA 200.8	Arsenic	mg/L	0.0282	<0.00100	0.0250	113	70 - 130	X438092 - X4I0221-02	23-Sep-24	
EPA 200.8	Selenium	mg/L	0.0247	<0.00100	0.0250	98.8	70 - 130	X438092 - X4I0187-01	23-Sep-24	
EPA 200.8	Selenium	mg/L	0.0261	<0.00100	0.0250	105	70 - 130	X438092 - X4I0221-02	23-Sep-24	
EPA 200.8	Thallium	mg/L	0.0275	<0.000200	0.0250	110	70 - 130	X438092 - X4I0187-01	23-Sep-24	
EPA 200.8	Thallium	mg/L	0.0267	<0.000200	0.0250	107	70 - 130	X438092 - X4I0221-02	23-Sep-24	
EPA 200.8	Uranium	mg/L	0.0337	0.00424	0.0250	118	70 - 130	X438092 - X4I0187-01	23-Sep-24	
EPA 200.8	Uranium	mg/L	0.0336	0.00483	0.0250	115	70 - 130	X438092 - X4I0221-02	23-Sep-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00211	<0.000200	0.00200	106	70 - 130	X438213 - X4I0264-01	23-Sep-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0980	<0.0050	0.100	98.0	79 - 121	X439153 - X4I0262-01	30-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.104	<0.0050	0.100	104	90 - 110	X439001 - X4I0262-01	24-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.588	0.454	0.100	0.30R>S	90 - 110	X439001 - X4I0211-01	24-Sep-24	M4
EPA 350.1	Ammonia as N	mg/L	1.79	0.742	1.00	105	90 - 110	X438185 - X4I0266-09	23-Sep-24	
EPA 350.1	Ammonia as N	mg/L	1.74	0.653	1.00	109	90 - 110	X438185 - X4I0266-10	23-Sep-24	
OIA 1677	Cyanide (WAD)	mg/L	0.101	<0.0050	0.100	99.0	82 - 118	X438184 - X4I0262-01	20-Sep-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	5.66	2.46	3.00	106	90 - 110	X438048 - X4I0242-02	17-Sep-24	
EPA 300.0	Chloride	mg/L	3.22	<0.20	3.00	101	90 - 110	X438048 - X4I0262-01	17-Sep-24	
EPA 300.0	Fluoride	mg/L	2.13	<0.100	2.00	104	90 - 110	X438048 - X4I0242-02	17-Sep-24	
EPA 300.0	Fluoride	mg/L	2.12	<0.100	2.00	102	90 - 110	X438048 - X4I0262-01	17-Sep-24	
EPA 300.0	Nitrate as N	mg/L	2.03	<0.050	2.00	102	90 - 110	X438048 - X4I0242-02	17-Sep-24	
EPA 300.0	Nitrate as N	mg/L	2.06	<0.050	2.00	102	90 - 110	X438048 - X4I0262-01	17-Sep-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.07	<0.100	4.00	102	90 - 110	X438048 - X4I0242-02	17-Sep-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.15	<0.100	4.00	104	90 - 110	X438048 - X4I0262-01	17-Sep-24	
EPA 300.0	Nitrite as N	mg/L	2.04	<0.050	2.00	102	90 - 110	X438048 - X4I0242-02	17-Sep-24	
EPA 300.0	Nitrite as N	mg/L	2.09	<0.050	2.00	104	90 - 110	X438048 - X4I0262-01	17-Sep-24	
EPA 300.0	Sulfate as SO4	mg/L	22.6	12.2	10.0	104	90 - 110	X438048 - X4I0242-02	17-Sep-24	
EPA 300.0	Sulfate as SO4	mg/L	10.9	0.55	10.0	103	90 - 110	X438048 - X4I0262-01	17-Sep-24	

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Newmont - Cripple Creek & Victor
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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0264**
Reported: 01-Oct-24 16:51

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	60.9	62.3	20.0	2.0	20	92	X438196 - X4I0221-01	
EPA 200.7	Magnesium	mg/L	26.1	27.0	20.0	3.4	20	96.7	X438196 - X4I0221-01	
EPA 200.7	Potassium	mg/L	19.9	20.5	20.0	2.8	20	93.6	X438196 - X4I0221-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	1.01	1.00	0.5	20	101	X439009 - X4I0153-01	
EPA 200.7	Barium	mg/L	1.17	1.18	1.00	0.6	20	97.8	X439009 - X4I0153-01	
EPA 200.7	Beryllium	mg/L	1.02	1.02	1.00	0.4	20	102	X439009 - X4I0153-01	
EPA 200.7	Boron	mg/L	1.01	1.01	1.00	0.3	20	99.0	X439009 - X4I0153-01	
EPA 200.7	Cadmium	mg/L	0.975	0.987	1.00	1.2	20	97.5	X439009 - X4I0153-01	
EPA 200.7	Calcium	mg/L	48.7	48.3	20.0	0.7	20	96.6	X439009 - X4I0153-01	
EPA 200.7	Chromium	mg/L	0.986	0.984	1.00	0.2	20	98.6	X439009 - X4I0153-01	
EPA 200.7	Cobalt	mg/L	0.953	0.966	1.00	1.4	20	95.3	X439009 - X4I0153-01	
EPA 200.7	Copper	mg/L	0.974	0.974	1.00	0.0	20	97.4	X439009 - X4I0153-01	
EPA 200.7	Iron	mg/L	9.97	9.73	10.0	2.4	20	99.7	X439009 - X4I0153-01	
EPA 200.7	Lead	mg/L	0.974	0.983	1.00	0.9	20	97.4	X439009 - X4I0153-01	
EPA 200.7	Lithium	mg/L	0.977	0.981	1.00	0.3	20	97.7	X439009 - X4I0153-01	
EPA 200.7	Magnesium	mg/L	26.7	26.2	20.0	1.9	20	99.8	X439009 - X4I0153-01	
EPA 200.7	Manganese	mg/L	0.986	0.987	1.00	0.1	20	98.0	X439009 - X4I0153-01	
EPA 200.7	Molybdenum	mg/L	0.999	1.01	1.00	0.6	20	99.5	X439009 - X4I0153-01	
EPA 200.7	Nickel	mg/L	0.953	0.966	1.00	1.4	20	95.3	X439009 - X4I0153-01	
EPA 200.7	Potassium	mg/L	20.7	20.1	20.0	2.9	20	98.5	X439009 - X4I0153-01	
EPA 200.7	Silver	mg/L	0.0530	0.0539	0.0500	1.6	20	106	X439009 - X4I0153-01	
EPA 200.7	Sodium	mg/L	49.9	49.6	19.0	0.6	20	96.7	X439009 - X4I0153-01	
EPA 200.7	Vanadium	mg/L	1.00	1.00	1.00	0.4	20	100	X439009 - X4I0153-01	
EPA 200.7	Zinc	mg/L	1.00	1.01	1.00	1.0	20	100	X439009 - X4I0153-01	
EPA 200.8	Antimony	mg/L	0.0289	0.0286	0.0250	1.3	20	116	X438092 - X4I0187-01	
EPA 200.8	Arsenic	mg/L	0.0278	0.0270	0.0250	3.0	20	108	X438092 - X4I0187-01	
EPA 200.8	Selenium	mg/L	0.0254	0.0247	0.0250	2.9	20	102	X438092 - X4I0187-01	
EPA 200.8	Thallium	mg/L	0.0277	0.0275	0.0250	0.6	20	111	X438092 - X4I0187-01	
EPA 200.8	Uranium	mg/L	0.0336	0.0337	0.0250	0.2	20	117	X438092 - X4I0187-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00210	0.00211	0.00200	0.5	20	105	X438213 - X4I0264-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.102	0.0980	0.100	4.0	11	102	X439153 - X4I0262-01	
EPA 335.4	Cyanide (total)	mg/L	0.585	0.588	0.100	0.6	20	0.30R>S	X439001 - X4I0211-01	M4
EPA 350.1	Ammonia as N	mg/L	1.80	1.79	1.00	0.4	20	106	X438185 - X4I0266-09	
OIA 1677	Cyanide (WAD)	mg/L	0.108	0.101	0.100	6.7	11	106	X438184 - X4I0262-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	5.67	5.66	3.00	0.2	20	107	X438048 - X4I0242-02	
EPA 300.0	Fluoride	mg/L	2.14	2.13	2.00	0.1	20	104	X438048 - X4I0242-02	
EPA 300.0	Nitrate as N	mg/L	2.04	2.03	2.00	0.2	20	102	X438048 - X4I0242-02	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.08	4.07	4.00	0.2	20	102	X438048 - X4I0242-02	
EPA 300.0	Nitrite as N	mg/L	2.05	2.04	2.00	0.3	20	102	X438048 - X4I0242-02	
EPA 300.0	Sulfate as SO4	mg/L	22.7	22.6	10.0	0.1	20	105	X438048 - X4I0242-02	

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4I0264**
Victor, CO 80860	Reported: 01-Oct-24 16:51

Notes and Definitions

D11	Due to sample color, a sample dilution was performed to minimize spectral interference.
D13	Due to noticeable turbidity or opacity, a sample dilution was performed.
D15	Due to sample viscosity, a sample dilution was performed.
D17	Due to an internal standard failure at a lower dilution, a sample dilution was performed.
D18	Due to a published chemical interference, a sample dilution was performed.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
Q12	Sample was received and analyzed with pH <12.
Q5C	After two pH adjustments, the method-specified pH was not achieved.
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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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4I0277**
Victor, CO 80860	Reported: 03-Oct-24 10:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
PGMW-5	X4I0277-01	Ground Water	17-Sep-24 09:40	TR	18-Sep-2024	

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: X4I0277

The state of origin only accredits for drinking water analyses.

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

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Newmont - Cripple Creek & Victor
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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0277**
Reported: 03-Oct-24 10:08

Client Sample ID: **PGMW-5**
SVL Sample ID: **X4I0277-01 (Ground Water)**

Sampled: 17-Sep-24 09:40
Received: 18-Sep-24
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**	107	mg/L	0.100	0.069		X439013	NMS	09/25/24 05:42	
EPA 200.7	**Magnesium**	47.9	mg/L	0.500	0.090		X439013	NMS	09/25/24 05:42	
EPA 200.7	**Potassium**	4.73	mg/L	0.50	0.18		X439013	NMS	09/25/24 05:42	
SM 2340 B	**Hardness (as CaCO3)**	465	mg/L	2.31	0.543		N/A		09/23/24 11:36	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	66.6	mg/L	0.080	0.054		X439011	NMS	09/23/24 11:36	M3
EPA 200.7	**Barium**	0.0094	mg/L	0.0020	0.0019		X439011	NMS	09/23/24 11:36	
EPA 200.7	**Beryllium**	0.0101	mg/L	0.00200	0.00080		X439011	NMS	09/23/24 11:36	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X439011	NMS	09/23/24 11:36	
EPA 200.7	**Cadmium**	0.0418	mg/L	0.0020	0.0016		X439011	NMS	09/23/24 11:36	
EPA 200.7	**Calcium**	119	mg/L	0.100	0.069		X439011	NMS	09/23/24 11:36	
EPA 200.7	**Chromium**	0.0094	mg/L	0.0060	0.0020		X439011	NMS	09/23/24 11:36	
EPA 200.7	**Cobalt**	0.189	mg/L	0.0060	0.0046		X439011	NMS	09/23/24 11:36	
EPA 200.7	**Copper**	1.39	mg/L	0.0100	0.0027		X439011	NMS	09/23/24 11:36	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X439011	NMS	09/23/24 11:36	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X439011	NMS	09/23/24 11:36	
EPA 200.7	**Lithium**	0.071	mg/L	0.040	0.025		X439011	NMS	09/23/24 11:36	
EPA 200.7	**Magnesium**	49.2	mg/L	0.500	0.090		X439011	NMS	09/23/24 11:36	
EPA 200.7	**Manganese**	44.1	mg/L	0.0080	0.0034		X439011	NMS	09/23/24 11:36	M3
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X439011	NMS	09/23/24 11:36	
EPA 200.7	**Nickel**	0.341	mg/L	0.0100	0.0048		X439011	NMS	09/23/24 11:36	
EPA 200.7	**Potassium**	4.84	mg/L	0.50	0.18		X439011	NMS	09/23/24 11:36	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X439011	NMS	09/23/24 11:36	
EPA 200.7	**Sodium**	27.7	mg/L	0.50	0.12		X439011	NMS	09/23/24 11:36	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X439011	NMS	09/23/24 11:36	
EPA 200.7	**Zinc**	5.64	mg/L	0.0100	0.0054		X439011	NMS	09/23/24 11:36	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X440111	JRR	10/02/24 11:18	
EPA 200.8	**Arsenic**	0.00104	mg/L	0.00100	0.00021		X440111	JRR	10/02/24 11:18	
EPA 200.8	**Selenium**	0.00253	mg/L	0.00100	0.00024		X440111	JRR	10/02/24 11:18	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X440111	JRR	10/02/24 11:18	
EPA 200.8	**Uranium**	0.0280	mg/L	0.000100	0.000052		X440111	JRR	10/02/24 11:18	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X438213	MAC	09/23/24 17:53	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @20.0°C	< 0.0050	mg/L	0.0050	0.0048		X439153	DD	09/30/24 14:25	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X439001	DD	09/24/24 10:52	
EPA 350.1	**Ammonia as N**	0.063	mg/L	0.030	0.013		X438186	DD	09/23/24 12:14	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X438184	DD	09/20/24 12:30	
SM 2310 B	**Acidity to pH 8.3**	478	mg/L as CaCO3	10.0			X439181	MWD	09/28/24 09:35	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X438143	MWD	09/19/24 10:15	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X438143	MWD	09/19/24 10:15	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X438143	MWD	09/19/24 10:15	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X438143	MWD	09/19/24 10:15	
SM 2540 C	**Total Diss. Solids**	1600	mg/L	10			X438139	TJL	09/20/24 13:05	
SM 2540 D	**Total Susp. Solids**	12.0	mg/L	5.0			X438140	TJL	09/20/24 13:45	
SM 4500 H B	**pH @19.6°C**	3.7	pH Units				X438143	MWD	09/19/24 10:15	H5

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

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Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0277**
Reported: 03-Oct-24 10:08

Client Sample ID: **PGMW-5**
SVL Sample ID: **X4I0277-01 (Ground Water)**

Sampled: 17-Sep-24 09:40
Received: 18-Sep-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	47.2	mg/L	10.0	1.10	50	X438119	RS	09/18/24 21:30	
EPA 300.0	**Fluoride**	9.42	mg/L	5.00	0.850	50	X438119	RS	09/18/24 21:30	
EPA 300.0	**Nitrate as N**	2.88	mg/L	0.050	0.013		X438119	RS	09/18/24 21:14	
EPA 300.0	**Nitrate+Nitrite as N**	2.88	mg/L	0.100	0.044		X438119	RS	09/18/24 21:14	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X438119	RS	09/18/24 21:14	
EPA 300.0	**Sulfate as SO4**	885	mg/L	15.0	9.00	50	X438119	RS	09/18/24 21:30	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 20.2 meq/L Anion Sum: 20.5 meq/L C/A Balance: -0.77 % Calculated TDS: 1148 TDS/cTDS: 1.39

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X410277**
Reported: 03-Oct-24 10:08

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	X439013	25-Sep-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X439013	25-Sep-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X439013	25-Sep-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X439011	23-Sep-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X439011	23-Sep-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X439011	23-Sep-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X439011	23-Sep-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X439011	23-Sep-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X439011	23-Sep-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X439011	23-Sep-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X439011	23-Sep-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X439011	23-Sep-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X439011	23-Sep-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X439011	23-Sep-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X439011	23-Sep-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X439011	23-Sep-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X439011	23-Sep-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X439011	23-Sep-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X439011	23-Sep-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X439011	23-Sep-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X439011	23-Sep-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X439011	23-Sep-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X439011	23-Sep-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X439011	23-Sep-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X440111	02-Oct-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X440111	02-Oct-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X440111	02-Oct-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X440111	02-Oct-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X440111	02-Oct-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X438213	23-Sep-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X439153	30-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X439001	24-Sep-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X438186	23-Sep-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X438184	20-Sep-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X439181	28-Sep-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X438143	19-Sep-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X438143	19-Sep-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X438143	19-Sep-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X438143	19-Sep-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X438139	20-Sep-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X438140	20-Sep-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X438119	18-Sep-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X438119	18-Sep-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X438119	18-Sep-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X438119	18-Sep-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X438119	18-Sep-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X438119	18-Sep-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X410277**
Reported: 03-Oct-24 10:08

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	19.2	20.0	96	85 - 115	X439013	25-Sep-24	
EPA 200.7	Magnesium	mg/L	19.6	20.0	98.1	85 - 115	X439013	25-Sep-24	
EPA 200.7	Potassium	mg/L	19.9	20.0	99.4	85 - 115	X439013	25-Sep-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.976	1.00	97.6	85 - 115	X439011	23-Sep-24	
EPA 200.7	Barium	mg/L	0.993	1.00	99.3	85 - 115	X439011	23-Sep-24	
EPA 200.7	Beryllium	mg/L	1.03	1.00	103	85 - 115	X439011	23-Sep-24	
EPA 200.7	Boron	mg/L	0.991	1.00	99.1	85 - 115	X439011	23-Sep-24	
EPA 200.7	Cadmium	mg/L	0.983	1.00	98.3	85 - 115	X439011	23-Sep-24	
EPA 200.7	Calcium	mg/L	19.7	20.0	98.4	85 - 115	X439011	23-Sep-24	
EPA 200.7	Chromium	mg/L	0.997	1.00	99.7	85 - 115	X439011	23-Sep-24	
EPA 200.7	Cobalt	mg/L	0.966	1.00	96.6	85 - 115	X439011	23-Sep-24	
EPA 200.7	Copper	mg/L	0.985	1.00	98.5	85 - 115	X439011	23-Sep-24	
EPA 200.7	Iron	mg/L	10.1	10.0	101	85 - 115	X439011	23-Sep-24	
EPA 200.7	Lead	mg/L	0.969	1.00	96.9	85 - 115	X439011	23-Sep-24	
EPA 200.7	Lithium	mg/L	0.973	1.00	97.3	85 - 115	X439011	23-Sep-24	
EPA 200.7	Magnesium	mg/L	19.7	20.0	98.5	85 - 115	X439011	23-Sep-24	
EPA 200.7	Manganese	mg/L	0.976	1.00	97.6	85 - 115	X439011	23-Sep-24	
EPA 200.7	Molybdenum	mg/L	0.992	1.00	99.2	85 - 115	X439011	23-Sep-24	
EPA 200.7	Nickel	mg/L	0.969	1.00	96.9	85 - 115	X439011	23-Sep-24	
EPA 200.7	Potassium	mg/L	19.9	20.0	99.3	85 - 115	X439011	23-Sep-24	
EPA 200.7	Silver	mg/L	0.0506	0.0500	101	85 - 115	X439011	23-Sep-24	
EPA 200.7	Sodium	mg/L	19.2	19.0	101	85 - 115	X439011	23-Sep-24	
EPA 200.7	Vanadium	mg/L	0.999	1.00	99.9	85 - 115	X439011	23-Sep-24	
EPA 200.7	Zinc	mg/L	0.985	1.00	98.5	85 - 115	X439011	23-Sep-24	
EPA 200.8	Antimony	mg/L	0.0244	0.0250	97.4	85 - 115	X440111	02-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0242	0.0250	96.9	85 - 115	X440111	02-Oct-24	
EPA 200.8	Selenium	mg/L	0.0232	0.0250	92.9	85 - 115	X440111	02-Oct-24	
EPA 200.8	Thallium	mg/L	0.0237	0.0250	94.9	85 - 115	X440111	02-Oct-24	
EPA 200.8	Uranium	mg/L	0.0237	0.0250	94.8	85 - 115	X440111	02-Oct-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00207	0.00200	103	85 - 115	X438213	23-Sep-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.101	0.100	101	90 - 110	X439153	30-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X439001	24-Sep-24	
EPA 350.1	Ammonia as N	mg/L	0.968	1.00	96.8	90 - 110	X438186	23-Sep-24	
OIA 1677	Cyanide (WAD)	mg/L	0.104	0.100	104	90 - 110	X438184	20-Sep-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	897	884	102	95.4 - 104	X439181	28-Sep-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.0	9.93	101	96.4 - 105	X438143	19-Sep-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	100	99.3	101	96.4 - 105	X438143	19-Sep-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X438140	20-Sep-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.98	3.00	99.5	90 - 110	X438119	18-Sep-24	
EPA 300.0	Fluoride	mg/L	1.99	2.00	99.5	90 - 110	X438119	18-Sep-24	
EPA 300.0	Nitrate as N	mg/L	1.96	2.00	97.8	90 - 110	X438119	18-Sep-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.45	4.50	98.8	90 - 110	X438119	18-Sep-24	
EPA 300.0	Nitrite as N	mg/L	2.49	2.50	99.7	90 - 110	X438119	18-Sep-24	
EPA 300.0	Sulfate as SO4	mg/L	10.1	10.0	101	90 - 110	X438119	18-Sep-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0277**
Reported: 03-Oct-24 10:08

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	478	478	0.0	20	X439181 - X4I0277-01	28-Sep-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0	<1.0	UDL	20	X438143 - X4I0277-01	19-Sep-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X438143 - X4I0277-01	19-Sep-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X438143 - X4I0277-01	19-Sep-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X438143 - X4I0277-01	19-Sep-24	
SM 2540 C	Total Diss. Solids	mg/L	230	233	1.3	10	X438139 - X4I0278-01	20-Sep-24	
SM 2540 C	Total Diss. Solids	mg/L	357	358	0.3	10	X438139 - X4I0288-01	20-Sep-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X438140 - X4I0278-01	20-Sep-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X438140 - X4I0288-01	20-Sep-24	
SM 4500 H B	pH @19.4°C	pH Units	3.7	3.7	0.0	20	X438143 - X4I0277-01	19-Sep-24	

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	602	578	20.0	119	70 - 130	X439013 - X4I0228-01	25-Sep-24	
EPA 200.7	Magnesium	mg/L	147	123	20.0	122	70 - 130	X439013 - X4I0228-01	25-Sep-24	
EPA 200.7	Potassium	mg/L	25.7	4.69	20.0	105	70 - 130	X439013 - X4I0228-01	25-Sep-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	68.5	66.6	1.00	0.30R>S	70 - 130	X439011 - X4I0277-01	23-Sep-24	M3
EPA 200.7	Aluminum	mg/L	0.980	<0.080	1.00	98.0	70 - 130	X439011 - X4I0316-11	23-Sep-24	
EPA 200.7	Barium	mg/L	1.05	0.0094	1.00	104	70 - 130	X439011 - X4I0277-01	23-Sep-24	
EPA 200.7	Barium	mg/L	1.06	0.0313	1.00	103	70 - 130	X439011 - X4I0316-11	23-Sep-24	
EPA 200.7	Beryllium	mg/L	1.11	0.0101	1.00	110	70 - 130	X439011 - X4I0277-01	23-Sep-24	
EPA 200.7	Beryllium	mg/L	1.09	<0.00200	1.00	109	70 - 130	X439011 - X4I0316-11	23-Sep-24	
EPA 200.7	Boron	mg/L	1.08	<0.0400	1.00	106	70 - 130	X439011 - X4I0277-01	23-Sep-24	
EPA 200.7	Boron	mg/L	1.16	0.114	1.00	105	70 - 130	X439011 - X4I0316-11	23-Sep-24	
EPA 200.7	Cadmium	mg/L	1.11	0.0418	1.00	107	70 - 130	X439011 - X4I0277-01	23-Sep-24	
EPA 200.7	Cadmium	mg/L	0.971	<0.0020	1.00	97.1	70 - 130	X439011 - X4I0316-11	23-Sep-24	
EPA 200.7	Calcium	mg/L	141	119	20.0	111	70 - 130	X439011 - X4I0277-01	23-Sep-24	
EPA 200.7	Calcium	mg/L	684	669	20.0	77.3	70 - 130	X439011 - X4I0316-11	23-Sep-24	
EPA 200.7	Chromium	mg/L	1.04	0.0094	1.00	103	70 - 130	X439011 - X4I0277-01	23-Sep-24	
EPA 200.7	Chromium	mg/L	1.02	<0.0060	1.00	102	70 - 130	X439011 - X4I0316-11	23-Sep-24	
EPA 200.7	Cobalt	mg/L	1.24	0.189	1.00	105	70 - 130	X439011 - X4I0277-01	23-Sep-24	
EPA 200.7	Cobalt	mg/L	0.994	0.0207	1.00	97.3	70 - 130	X439011 - X4I0316-11	23-Sep-24	
EPA 200.7	Copper	mg/L	2.45	1.39	1.00	106	70 - 130	X439011 - X4I0277-01	23-Sep-24	
EPA 200.7	Copper	mg/L	1.07	<0.0100	1.00	107	70 - 130	X439011 - X4I0316-11	23-Sep-24	
EPA 200.7	Iron	mg/L	11.0	<0.100	10.0	109	70 - 130	X439011 - X4I0277-01	23-Sep-24	
EPA 200.7	Iron	mg/L	10.9	<0.100	10.0	109	70 - 130	X439011 - X4I0316-11	23-Sep-24	
EPA 200.7	Lead	mg/L	1.03	<0.0075	1.00	103	70 - 130	X439011 - X4I0277-01	23-Sep-24	
EPA 200.7	Lead	mg/L	0.937	<0.0075	1.00	93.7	70 - 130	X439011 - X4I0316-11	23-Sep-24	
EPA 200.7	Lithium	mg/L	1.14	0.071	1.00	107	70 - 130	X439011 - X4I0277-01	23-Sep-24	
EPA 200.7	Lithium	mg/L	1.04	<0.040	1.00	104	70 - 130	X439011 - X4I0316-11	23-Sep-24	
EPA 200.7	Magnesium	mg/L	70.9	49.2	20.0	108	70 - 130	X439011 - X4I0277-01	23-Sep-24	
EPA 200.7	Magnesium	mg/L	136	115	20.0	106	70 - 130	X439011 - X4I0316-11	23-Sep-24	
EPA 200.7	Manganese	mg/L	45.2	44.1	1.00	111	70 - 130	X439011 - X4I0277-01	23-Sep-24	
EPA 200.7	Manganese	mg/L	6.95	6.07	1.00	88.3	70 - 130	X439011 - X4I0316-11	23-Sep-24	
EPA 200.7	Molybdenum	mg/L	1.05	<0.0080	1.00	105	70 - 130	X439011 - X4I0277-01	23-Sep-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0277**
Reported: 03-Oct-24 10:08

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Molybdenum	mg/L	1.03	<0.0080	1.00	103	70 - 130	X439011 - X4I0316-11	23-Sep-24	
EPA 200.7	Nickel	mg/L	1.40	0.341	1.00	106	70 - 130	X439011 - X4I0277-01	23-Sep-24	
EPA 200.7	Nickel	mg/L	1.04	0.0551	1.00	98.1	70 - 130	X439011 - X4I0316-11	23-Sep-24	
EPA 200.7	Potassium	mg/L	26.8	4.84	20.0	110	70 - 130	X439011 - X4I0277-01	23-Sep-24	
EPA 200.7	Potassium	mg/L	27.2	5.17	20.0	110	70 - 130	X439011 - X4I0316-11	23-Sep-24	
EPA 200.7	Silver	mg/L	0.0496	<0.0050	0.0500	99.1	70 - 130	X439011 - X4I0277-01	23-Sep-24	
EPA 200.7	Silver	mg/L	0.0437	<0.0050	0.0500	81.1	70 - 130	X439011 - X4I0316-11	23-Sep-24	
EPA 200.7	Sodium	mg/L	49.0	27.7	19.0	112	70 - 130	X439011 - X4I0277-01	23-Sep-24	
EPA 200.7	Sodium	mg/L	85.5	66.0	19.0	102	70 - 130	X439011 - X4I0316-11	23-Sep-24	
EPA 200.7	Vanadium	mg/L	1.05	<0.0050	1.00	105	70 - 130	X439011 - X4I0277-01	23-Sep-24	
EPA 200.7	Vanadium	mg/L	1.05	<0.0050	1.00	104	70 - 130	X439011 - X4I0316-11	23-Sep-24	
EPA 200.7	Zinc	mg/L	6.73	5.64	1.00	109	70 - 130	X439011 - X4I0277-01	23-Sep-24	
EPA 200.7	Zinc	mg/L	1.17	0.150	1.00	102	70 - 130	X439011 - X4I0316-11	23-Sep-24	
EPA 200.8	Antimony	mg/L	0.0242	<0.00100	0.0250	96.7	70 - 130	X440111 - X4I0278-01	02-Oct-24	
EPA 200.8	Antimony	mg/L	0.0249	<0.00100	0.0250	99.5	70 - 130	X440111 - X4I0316-11	02-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0244	<0.00100	0.0250	97.5	70 - 130	X440111 - X4I0278-01	02-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0242	<0.00100	0.0250	95.3	70 - 130	X440111 - X4I0316-11	02-Oct-24	
EPA 200.8	Selenium	mg/L	0.0233	<0.00100	0.0250	93.2	70 - 130	X440111 - X4I0278-01	02-Oct-24	
EPA 200.8	Selenium	mg/L	0.0237	0.00314	0.0250	82.2	70 - 130	X440111 - X4I0316-11	02-Oct-24	
EPA 200.8	Thallium	mg/L	0.0236	<0.000200	0.0250	94.3	70 - 130	X440111 - X4I0278-01	02-Oct-24	
EPA 200.8	Thallium	mg/L	0.0224	<0.000200	0.0250	89.6	70 - 130	X440111 - X4I0316-11	02-Oct-24	
EPA 200.8	Uranium	mg/L	0.0241	0.000546	0.0250	94.2	70 - 130	X440111 - X4I0278-01	02-Oct-24	
EPA 200.8	Uranium	mg/L	0.0252	0.00203	0.0250	92.6	70 - 130	X440111 - X4I0316-11	02-Oct-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00211	<0.000200	0.00200	106	70 - 130	X438213 - X4I0264-01	23-Sep-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0980	<0.0050	0.100	98.0	79 - 121	X439153 - X4I0262-01	30-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.104	<0.0050	0.100	104	90 - 110	X439001 - X4I0262-01	24-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.588	0.454	0.100	0.30R>S	90 - 110	X439001 - X4I0211-01	24-Sep-24	M4
EPA 350.1	Ammonia as N	mg/L	1.16	0.063	1.00	110	90 - 110	X438186 - X4I0277-01	23-Sep-24	
EPA 350.1	Ammonia as N	mg/L	1.14	<0.030	1.00	112	90 - 110	X438186 - X4I0278-01	23-Sep-24	M1
OIA 1677	Cyanide (WAD)	mg/L	0.101	<0.0050	0.100	99.0	82 - 118	X438184 - X4I0262-01	20-Sep-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	8.17	5.10	3.00	102	90 - 110	X438119 - X4I0280-01	18-Sep-24	
EPA 300.0	Chloride	mg/L	3.39	0.40	3.00	99.5	90 - 110	X438119 - X4I0306-01	19-Sep-24	
EPA 300.0	Fluoride	mg/L	2.28	0.368	2.00	95.5	90 - 110	X438119 - X4I0280-01	18-Sep-24	
EPA 300.0	Fluoride	mg/L	2.21	0.195	2.00	101	90 - 110	X438119 - X4I0306-01	19-Sep-24	
EPA 300.0	Nitrate as N	mg/L	2.59	0.622	2.00	98.4	90 - 110	X438119 - X4I0280-01	18-Sep-24	
EPA 300.0	Nitrate as N	mg/L	1.96	<0.050	2.00	98.0	90 - 110	X438119 - X4I0306-01	19-Sep-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.60	0.622	4.00	99.4	90 - 110	X438119 - X4I0280-01	18-Sep-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.00	<0.100	4.00	99.9	90 - 110	X438119 - X4I0306-01	19-Sep-24	
EPA 300.0	Nitrite as N	mg/L	2.01	<0.050	2.00	100	90 - 110	X438119 - X4I0280-01	18-Sep-24	
EPA 300.0	Nitrite as N	mg/L	2.04	<0.050	2.00	102	90 - 110	X438119 - X4I0306-01	19-Sep-24	
EPA 300.0	Sulfate as SO4	mg/L	32.8	22.7	10.0	100	90 - 110	X438119 - X4I0280-01	18-Sep-24	
EPA 300.0	Sulfate as SO4	mg/L	14.2	4.06	10.0	102	90 - 110	X438119 - X4I0306-01	19-Sep-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0277**
Reported: 03-Oct-24 10:08

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	592	602	20.0	2.0	20	0.30R>S	X439013 - X4I0228-01	M4
EPA 200.7	Magnesium	mg/L	144	147	20.0	1.9	20	108	X439013 - X4I0228-01	
EPA 200.7	Potassium	mg/L	25.6	25.7	20.0	0.3	20	105	X439013 - X4I0228-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	66.8	68.5	1.00	2.6	20	0.30R>S	X439011 - X4I0277-01	M3
EPA 200.7	Barium	mg/L	1.04	1.05	1.00	1.4	20	103	X439011 - X4I0277-01	
EPA 200.7	Beryllium	mg/L	1.08	1.11	1.00	2.4	20	107	X439011 - X4I0277-01	
EPA 200.7	Boron	mg/L	1.05	1.08	1.00	2.6	20	103	X439011 - X4I0277-01	
EPA 200.7	Cadmium	mg/L	1.06	1.11	1.00	4.6	20	102	X439011 - X4I0277-01	
EPA 200.7	Calcium	mg/L	138	141	20.0	2.1	20	95.7	X439011 - X4I0277-01	
EPA 200.7	Chromium	mg/L	1.01	1.04	1.00	2.7	20	100	X439011 - X4I0277-01	
EPA 200.7	Cobalt	mg/L	1.19	1.24	1.00	4.1	20	100	X439011 - X4I0277-01	
EPA 200.7	Copper	mg/L	2.40	2.45	1.00	2.4	20	100	X439011 - X4I0277-01	
EPA 200.7	Iron	mg/L	10.9	11.0	10.0	1.5	20	108	X439011 - X4I0277-01	
EPA 200.7	Lead	mg/L	0.984	1.03	1.00	4.5	20	98.4	X439011 - X4I0277-01	
EPA 200.7	Lithium	mg/L	1.12	1.14	1.00	2.5	20	105	X439011 - X4I0277-01	
EPA 200.7	Magnesium	mg/L	69.7	70.9	20.0	1.7	20	102	X439011 - X4I0277-01	
EPA 200.7	Manganese	mg/L	44.6	45.2	1.00	1.5	20	0.30R>S	X439011 - X4I0277-01	M3
EPA 200.7	Molybdenum	mg/L	1.01	1.05	1.00	4.3	20	101	X439011 - X4I0277-01	
EPA 200.7	Nickel	mg/L	1.35	1.40	1.00	4.2	20	101	X439011 - X4I0277-01	
EPA 200.7	Potassium	mg/L	26.4	26.8	20.0	1.6	20	108	X439011 - X4I0277-01	
EPA 200.7	Silver	mg/L	0.0484	0.0496	0.0500	2.4	20	96.7	X439011 - X4I0277-01	
EPA 200.7	Sodium	mg/L	48.2	49.0	19.0	1.8	20	108	X439011 - X4I0277-01	
EPA 200.7	Vanadium	mg/L	1.02	1.05	1.00	2.6	20	102	X439011 - X4I0277-01	
EPA 200.7	Zinc	mg/L	6.46	6.73	1.00	4.1	20	81.8	X439011 - X4I0277-01	
EPA 200.8	Antimony	mg/L	0.0244	0.0242	0.0250	1.2	20	97.8	X440111 - X4I0278-01	
EPA 200.8	Arsenic	mg/L	0.0238	0.0244	0.0250	2.6	20	95.0	X440111 - X4I0278-01	
EPA 200.8	Selenium	mg/L	0.0222	0.0233	0.0250	4.6	20	88.9	X440111 - X4I0278-01	
EPA 200.8	Thallium	mg/L	0.0234	0.0236	0.0250	0.7	20	93.7	X440111 - X4I0278-01	
EPA 200.8	Uranium	mg/L	0.0242	0.0241	0.0250	0.4	20	94.6	X440111 - X4I0278-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00210	0.00211	0.00200	0.5	20	105	X438213 - X4I0264-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.102	0.0980	0.100	4.0	11	102	X439153 - X4I0262-01	
EPA 335.4	Cyanide (total)	mg/L	0.585	0.588	0.100	0.6	20	0.30R>S	X439001 - X4I0211-01	M4
EPA 350.1	Ammonia as N	mg/L	1.14	1.16	1.00	2.4	20	107	X438186 - X4I0277-01	
OIA 1677	Cyanide (WAD)	mg/L	0.108	0.101	0.100	6.7	11	106	X438184 - X4I0262-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	8.21	8.17	3.00	0.5	20	104	X438119 - X4I0280-01	
EPA 300.0	Fluoride	mg/L	2.29	2.28	2.00	0.7	20	96.3	X438119 - X4I0280-01	
EPA 300.0	Nitrate as N	mg/L	2.61	2.59	2.00	0.9	20	99.6	X438119 - X4I0280-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.65	4.60	4.00	1.2	20	101	X438119 - X4I0280-01	
EPA 300.0	Nitrite as N	mg/L	2.04	2.01	2.00	1.6	20	102	X438119 - X4I0280-01	
EPA 300.0	Sulfate as SO4	mg/L	32.8	32.8	10.0	0.2	20	101	X438119 - X4I0280-01	

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4I0277**
Victor, CO 80860	Reported: 03-Oct-24 10:08

Notes and Definitions

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

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4I0313**
Victor, CO 80860	Reported: 08-Oct-24 16:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
PGMW-3	X4I0313-01	Ground Water	18-Sep-24 09:22	PB	19-Sep-2024	

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: X4I0313

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: **X4I0313**
Reported: 08-Oct-24 16:19

Client Sample ID: **PGMW-3**
SVL Sample ID: **X4I0313-01 (Ground Water)**

Sampled: 18-Sep-24 09:22
Received: 19-Sep-24
Sampled By: PB

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**	156	mg/L	0.100	0.069		X439103	SJN	09/30/24 12:49	
EPA 200.7	**Magnesium**	45.2	mg/L	0.500	0.090		X439103	SJN	09/30/24 12:49	
EPA 200.7	**Potassium**	5.33	mg/L	0.50	0.18		X439103	SJN	09/30/24 12:49	
SM 2340 B	**Hardness (as CaCO3)**	576	mg/L	2.31	0.543		N/A		09/23/24 12:36	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	12.2	mg/L	0.080	0.054		X439009	SJN	09/23/24 12:36	
EPA 200.7	**Barium**	0.0158	mg/L	0.0020	0.0019		X439009	SJN	09/23/24 12:36	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X439009	SJN	09/23/24 12:36	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X439009	SJN	09/23/24 12:36	
EPA 200.7	**Cadmium**	0.0043	mg/L	0.0020	0.0016		X439009	SJN	09/23/24 12:36	
EPA 200.7	**Calcium**	152	mg/L	0.100	0.069		X439009	SJN	09/23/24 12:36	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X439009	SJN	09/23/24 12:36	
EPA 200.7	**Cobalt**	0.0270	mg/L	0.0060	0.0046		X439009	SJN	09/23/24 12:36	
EPA 200.7	**Copper**	0.101	mg/L	0.0100	0.0027		X439009	SJN	09/23/24 12:36	
EPA 200.7	**Iron**	0.721	mg/L	0.100	0.056		X439009	SJN	09/23/24 12:36	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X439009	SJN	09/23/24 12:36	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X439009	SJN	09/23/24 12:36	
EPA 200.7	**Magnesium**	43.6	mg/L	0.500	0.090		X439009	SJN	09/23/24 12:36	
EPA 200.7	**Manganese**	3.87	mg/L	0.0080	0.0034		X439009	SJN	09/23/24 12:36	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X439009	SJN	09/23/24 12:36	
EPA 200.7	**Nickel**	0.0310	mg/L	0.0100	0.0048		X439009	SJN	09/23/24 12:36	
EPA 200.7	**Potassium**	4.98	mg/L	0.50	0.18		X439009	SJN	09/23/24 12:36	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X439009	SJN	09/23/24 12:36	
EPA 200.7	**Sodium**	25.1	mg/L	0.50	0.12		X439009	SJN	09/23/24 12:36	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X439009	SJN	09/23/24 12:36	
EPA 200.7	**Zinc**	0.492	mg/L	0.0100	0.0054		X439009	SJN	09/23/24 12:36	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X440113	JRR	10/08/24 12:22	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X440113	JRR	10/08/24 12:22	
EPA 200.8	**Selenium**	0.00221	mg/L	0.00100	0.00024		X440113	JRR	10/08/24 12:22	
EPA 200.8	**Thallium**	0.000279	mg/L	0.000200	0.00008		X440113	JRR	10/08/24 12:22	
EPA 200.8	**Uranium**	0.00223	mg/L	0.000100	0.000052		X440113	JRR	10/08/24 12:22	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X439071	MAC	09/26/24 20:37	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X439153	DD	10/01/24 12:38	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X439001	DD	09/24/24 11:06	
EPA 350.1	**Ammonia as N**	0.131	mg/L	0.030	0.013		X438186	DD	09/23/24 12:57	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X438184	DD	09/20/24 12:38	
SM 2310 B	**Acidity to pH 8.3**	31.4	mg/L as CaCO3	10.0			X439181	MWD	09/28/24 09:35	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X439035	MWD	09/24/24 11:39	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X439035	MWD	09/24/24 11:39	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X439035	MWD	09/24/24 11:39	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X439035	MWD	09/24/24 11:39	
SM 2540 C	**Total Diss. Solids**	993	mg/L	10			X438215	TJL	09/24/24 13:05	
SM 2540 D	**Total Susp. Solids**	16.0	mg/L	5.0			X438216	TJL	09/24/24 13:35	
SM 4500 H B	**pH @20.3°C**	4.4	pH Units				X439035	MWD	09/24/24 11:39	H5

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

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Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0313**
Reported: 08-Oct-24 16:19

Client Sample ID: **PGMW-3**
SVL Sample ID: **X4I0313-01 (Ground Water)**

Sampled: 18-Sep-24 09:22
Received: 19-Sep-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	52.8	mg/L	10.0	1.10	50	X438168	RS	09/19/24 19:42	
EPA 300.0	**Fluoride**	1.93	mg/L	0.100	0.017		X438168	RS	09/19/24 19:26	
EPA 300.0	**Nitrate as N**	6.39	mg/L	0.050	0.013		X438168	RS	09/19/24 19:26	
EPA 300.0	**Nitrate+Nitrite as N**	6.39	mg/L	0.100	0.044		X438168	RS	09/19/24 19:26	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X438168	RS	09/19/24 19:26	
EPA 300.0	**Sulfate as SO4**	609	mg/L	15.0	9.00	50	X438168	RS	09/19/24 19:42	

Cation/Anion Balance and TDS Ratios

Cation Sum: 13.9 meq/L Anion Sum: 14.7 meq/L C/A Balance: -2.79 % Calculated TDS: 921 TDS/cTDS: 1.08

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X410313**
Reported: 08-Oct-24 16:19

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	X439103	30-Sep-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X439103	30-Sep-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X439103	30-Sep-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X439009	23-Sep-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X439009	23-Sep-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X439009	23-Sep-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X439009	23-Sep-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X439009	23-Sep-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X439009	23-Sep-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X439009	23-Sep-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X439009	23-Sep-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X439009	23-Sep-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X439009	23-Sep-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X439009	23-Sep-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X439009	23-Sep-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X439009	23-Sep-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X439009	23-Sep-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X439009	23-Sep-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X439009	23-Sep-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X439009	23-Sep-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X439009	23-Sep-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X439009	23-Sep-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X439009	23-Sep-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X439009	23-Sep-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X440113	08-Oct-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X440113	08-Oct-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X440113	08-Oct-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X440113	08-Oct-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X440113	08-Oct-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X439071	26-Sep-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X439153	30-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X439001	24-Sep-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X438186	23-Sep-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X438184	20-Sep-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X439181	28-Sep-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X439035	24-Sep-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X439035	24-Sep-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X439035	24-Sep-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X439035	24-Sep-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X438215	24-Sep-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X438216	24-Sep-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X438168	19-Sep-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X438168	19-Sep-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X438168	19-Sep-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X438168	19-Sep-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X438168	19-Sep-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X438168	19-Sep-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X410313**
Reported: 08-Oct-24 16:19

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	19.2	20.0	96	85 - 115	X439103	30-Sep-24	
EPA 200.7	Magnesium	mg/L	19.6	20.0	97.9	85 - 115	X439103	30-Sep-24	
EPA 200.7	Potassium	mg/L	19.4	20.0	97.0	85 - 115	X439103	30-Sep-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	1.00	1.00	100	85 - 115	X439009	23-Sep-24	
EPA 200.7	Barium	mg/L	0.985	1.00	98.5	85 - 115	X439009	23-Sep-24	
EPA 200.7	Beryllium	mg/L	1.04	1.00	104	85 - 115	X439009	23-Sep-24	
EPA 200.7	Boron	mg/L	0.984	1.00	98.4	85 - 115	X439009	23-Sep-24	
EPA 200.7	Cadmium	mg/L	0.978	1.00	97.8	85 - 115	X439009	23-Sep-24	
EPA 200.7	Calcium	mg/L	19.6	20.0	97.8	85 - 115	X439009	23-Sep-24	
EPA 200.7	Chromium	mg/L	0.997	1.00	99.7	85 - 115	X439009	23-Sep-24	
EPA 200.7	Cobalt	mg/L	0.961	1.00	96.1	85 - 115	X439009	23-Sep-24	
EPA 200.7	Copper	mg/L	1.00	1.00	100	85 - 115	X439009	23-Sep-24	
EPA 200.7	Iron	mg/L	9.95	10.0	99.5	85 - 115	X439009	23-Sep-24	
EPA 200.7	Lead	mg/L	0.972	1.00	97.2	85 - 115	X439009	23-Sep-24	
EPA 200.7	Lithium	mg/L	0.939	1.00	93.9	85 - 115	X439009	23-Sep-24	
EPA 200.7	Magnesium	mg/L	19.2	20.0	95.9	85 - 115	X439009	23-Sep-24	
EPA 200.7	Manganese	mg/L	0.992	1.00	99.2	85 - 115	X439009	23-Sep-24	
EPA 200.7	Molybdenum	mg/L	0.995	1.00	99.5	85 - 115	X439009	23-Sep-24	
EPA 200.7	Nickel	mg/L	0.971	1.00	97.1	85 - 115	X439009	23-Sep-24	
EPA 200.7	Potassium	mg/L	19.6	20.0	98.1	85 - 115	X439009	23-Sep-24	
EPA 200.7	Silver	mg/L	0.0524	0.0500	105	85 - 115	X439009	23-Sep-24	
EPA 200.7	Sodium	mg/L	19.1	19.0	101	85 - 115	X439009	23-Sep-24	
EPA 200.7	Vanadium	mg/L	1.01	1.00	101	85 - 115	X439009	23-Sep-24	
EPA 200.7	Zinc	mg/L	0.986	1.00	98.6	85 - 115	X439009	23-Sep-24	
EPA 200.8	Antimony	mg/L	0.0249	0.0250	99.4	85 - 115	X440113	08-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0263	0.0250	105	85 - 115	X440113	08-Oct-24	
EPA 200.8	Selenium	mg/L	0.0274	0.0250	110	85 - 115	X440113	08-Oct-24	
EPA 200.8	Thallium	mg/L	0.0251	0.0250	101	85 - 115	X440113	08-Oct-24	
EPA 200.8	Uranium	mg/L	0.0255	0.0250	102	85 - 115	X440113	08-Oct-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00195	0.00200	97.5	85 - 115	X439071	26-Sep-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.101	0.100	101	90 - 110	X439153	30-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X439001	24-Sep-24	
EPA 350.1	Ammonia as N	mg/L	0.968	1.00	96.8	90 - 110	X438186	23-Sep-24	
OIA 1677	Cyanide (WAD)	mg/L	0.104	0.100	104	90 - 110	X438184	20-Sep-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	897	884	102	95.4 - 104	X439181	28-Sep-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.4	9.93	105	96.4 - 105	X439035	24-Sep-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	101	96.4 - 105	X439035	24-Sep-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X438216	24-Sep-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.99	3.00	99.7	90 - 110	X438168	19-Sep-24	
EPA 300.0	Fluoride	mg/L	2.05	2.00	103	90 - 110	X438168	19-Sep-24	
EPA 300.0	Nitrate as N	mg/L	1.96	2.00	98.1	90 - 110	X438168	19-Sep-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.46	4.50	99.1	90 - 110	X438168	19-Sep-24	
EPA 300.0	Nitrite as N	mg/L	2.50	2.50	99.9	90 - 110	X438168	19-Sep-24	
EPA 300.0	Sulfate as SO4	mg/L	10.2	10.0	102	90 - 110	X438168	19-Sep-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0313**
Reported: 08-Oct-24 16:19

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	478	478	0.0	20	X439181 - X4I0277-01	28-Sep-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	122	122	0.1	20	X439035 - X4I0310-03	24-Sep-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	122	122	0.1	20	X439035 - X4I0310-03	24-Sep-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X439035 - X4I0310-03	24-Sep-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X439035 - X4I0310-03	24-Sep-24	
SM 2540 C	Total Diss. Solids	mg/L	266	266	0.0	10	X438215 - X4I0332-02	24-Sep-24	
SM 2540 C	Total Diss. Solids	mg/L	338	343	1.5	10	X438215 - X4I0332-09	24-Sep-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X438216 - X4I0332-09	24-Sep-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X438216 - X4I0332-02	24-Sep-24	
SM 4500 H B	pH @19.9°C	pH Units	8.0	8.0	0.1	20	X439035 - X4I0310-03	24-Sep-24	

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	36.7	17.2	20.0	98	70 - 130	X439103 - X4I0274-01	30-Sep-24	
EPA 200.7	Calcium	mg/L	24.5	4.69	20.0	99	70 - 130	X439103 - X4I0330-01	30-Sep-24	
EPA 200.7	Magnesium	mg/L	21.7	1.82	20.0	99.3	70 - 130	X439103 - X4I0274-01	30-Sep-24	
EPA 200.7	Magnesium	mg/L	20.4	<0.500	20.0	100	70 - 130	X439103 - X4I0330-01	30-Sep-24	
EPA 200.7	Potassium	mg/L	21.9	2.42	20.0	97.4	70 - 130	X439103 - X4I0274-01	30-Sep-24	
EPA 200.7	Potassium	mg/L	20.3	<0.50	20.0	99.5	70 - 130	X439103 - X4I0330-01	30-Sep-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	<0.080	1.00	101	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Aluminum	mg/L	1.02	<0.080	1.00	102	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Barium	mg/L	1.18	0.196	1.00	98.5	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Barium	mg/L	1.09	0.101	1.00	98.9	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Beryllium	mg/L	1.02	<0.00200	1.00	102	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Beryllium	mg/L	1.02	<0.00200	1.00	102	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Boron	mg/L	1.01	<0.0400	1.00	98.8	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Boron	mg/L	0.996	<0.0400	1.00	98.7	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Cadmium	mg/L	0.987	<0.0020	1.00	98.7	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Cadmium	mg/L	0.983	<0.0020	1.00	98.3	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Calcium	mg/L	48.3	29.4	20.0	94.9	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Calcium	mg/L	29.9	10.4	20.0	97.5	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Chromium	mg/L	0.984	<0.0060	1.00	98.4	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Chromium	mg/L	0.993	<0.0060	1.00	99.3	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Cobalt	mg/L	0.966	<0.0060	1.00	96.6	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Cobalt	mg/L	0.956	<0.0060	1.00	95.6	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Copper	mg/L	0.974	<0.0100	1.00	97.4	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Copper	mg/L	0.976	<0.0100	1.00	97.6	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Iron	mg/L	9.73	<0.100	10.0	97.3	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Iron	mg/L	10.0	<0.100	10.0	100	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Lead	mg/L	0.983	<0.0075	1.00	98.3	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Lead	mg/L	0.975	<0.0075	1.00	97.5	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Lithium	mg/L	0.981	<0.040	1.00	98.1	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Lithium	mg/L	0.934	<0.040	1.00	93.4	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Magnesium	mg/L	26.2	6.70	20.0	97.3	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Magnesium	mg/L	21.7	2.10	20.0	98.1	70 - 130	X439009 - X4I0153-02	23-Sep-24	

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Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0313**
Reported: 08-Oct-24 16:19

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	0.987	<0.0080	1.00	98.0	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Manganese	mg/L	0.987	<0.0080	1.00	98.7	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Molybdenum	mg/L	1.01	<0.0080	1.00	100	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Molybdenum	mg/L	0.987	<0.0080	1.00	98.7	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Nickel	mg/L	0.966	<0.0100	1.00	96.6	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Nickel	mg/L	0.957	<0.0100	1.00	95.7	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Potassium	mg/L	20.1	0.95	20.0	95.6	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Potassium	mg/L	20.5	0.78	20.0	98.6	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Silver	mg/L	0.0539	<0.0050	0.0500	108	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Silver	mg/L	0.0533	<0.0050	0.0500	107	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Sodium	mg/L	49.6	31.6	19.0	95.1	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Sodium	mg/L	28.9	10.1	19.0	98.8	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Vanadium	mg/L	1.00	<0.0050	1.00	100	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Vanadium	mg/L	1.00	<0.0050	1.00	100	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Zinc	mg/L	1.01	<0.0100	1.00	101	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Zinc	mg/L	1.00	<0.0100	1.00	100	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.8	Antimony	mg/L	0.0250	<0.00100	0.0250	99.9	70 - 130	X440113 - X4I0330-02	08-Oct-24	
EPA 200.8	Antimony	mg/L	0.0256	<0.00100	0.0250	103	70 - 130	X440113 - X4I0331-01	08-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0261	<0.00100	0.0250	105	70 - 130	X440113 - X4I0330-02	08-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0263	<0.00100	0.0250	104	70 - 130	X440113 - X4I0331-01	08-Oct-24	
EPA 200.8	Selenium	mg/L	0.0260	<0.00100	0.0250	103	70 - 130	X440113 - X4I0330-02	08-Oct-24	
EPA 200.8	Selenium	mg/L	0.0269	<0.00100	0.0250	105	70 - 130	X440113 - X4I0331-01	08-Oct-24	
EPA 200.8	Thallium	mg/L	0.0248	<0.000200	0.0250	99.3	70 - 130	X440113 - X4I0330-02	08-Oct-24	
EPA 200.8	Thallium	mg/L	0.0251	<0.000200	0.0250	100	70 - 130	X440113 - X4I0331-01	08-Oct-24	
EPA 200.8	Uranium	mg/L	0.0254	<0.000100	0.0250	101	70 - 130	X440113 - X4I0330-02	08-Oct-24	
EPA 200.8	Uranium	mg/L	0.0252	<0.000100	0.0250	101	70 - 130	X440113 - X4I0331-01	08-Oct-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00208	<0.000200	0.00200	104	70 - 130	X439071 - X4I0313-01	26-Sep-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0980	<0.0050	0.100	98.0	79 - 121	X439153 - X4I0262-01	30-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.104	<0.0050	0.100	104	90 - 110	X439001 - X4I0262-01	24-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.588	0.454	0.100	0.30R>S	90 - 110	X439001 - X4I0211-01	24-Sep-24	M4
EPA 350.1	Ammonia as N	mg/L	1.16	0.063	1.00	110	90 - 110	X438186 - X4I0277-01	23-Sep-24	
EPA 350.1	Ammonia as N	mg/L	1.14	<0.030	1.00	112	90 - 110	X438186 - X4I0278-01	23-Sep-24	M1
OIA 1677	Cyanide (WAD)	mg/L	0.101	<0.0050	0.100	99.0	82 - 118	X438184 - X4I0262-01	20-Sep-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.04	1.07	3.00	99.1	90 - 110	X438168 - X4I0274-04	19-Sep-24	
EPA 300.0	Chloride	mg/L	4.05	1.07	3.00	99.2	90 - 110	X438168 - X4I0274-05	19-Sep-24	
EPA 300.0	Fluoride	mg/L	2.00	<0.100	2.00	98.6	90 - 110	X438168 - X4I0274-04	19-Sep-24	
EPA 300.0	Fluoride	mg/L	2.00	<0.100	2.00	99.0	90 - 110	X438168 - X4I0274-05	19-Sep-24	
EPA 300.0	Nitrate as N	mg/L	1.96	<0.050	2.00	96.6	90 - 110	X438168 - X4I0274-04	19-Sep-24	
EPA 300.0	Nitrate as N	mg/L	1.97	<0.050	2.00	96.9	90 - 110	X438168 - X4I0274-05	19-Sep-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.96	<0.100	4.00	98.9	90 - 110	X438168 - X4I0274-04	19-Sep-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.97	<0.100	4.00	99.3	90 - 110	X438168 - X4I0274-05	19-Sep-24	
EPA 300.0	Nitrite as N	mg/L	1.99	<0.050	2.00	99.5	90 - 110	X438168 - X4I0274-04	19-Sep-24	
EPA 300.0	Nitrite as N	mg/L	2.01	<0.050	2.00	100	90 - 110	X438168 - X4I0274-05	19-Sep-24	
EPA 300.0	Sulfate as SO4	mg/L	12.2	2.33	10.0	98.5	90 - 110	X438168 - X4I0274-04	19-Sep-24	
EPA 300.0	Sulfate as SO4	mg/L	12.2	2.31	10.0	98.9	90 - 110	X438168 - X4I0274-05	19-Sep-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0313**
Reported: 08-Oct-24 16:19

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	36.3	36.7	20.0	1.0	20	96	X439103 - X4I0274-01	
EPA 200.7	Magnesium	mg/L	21.6	21.7	20.0	0.2	20	99.1	X439103 - X4I0274-01	
EPA 200.7	Potassium	mg/L	21.8	21.9	20.0	0.6	20	96.8	X439103 - X4I0274-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	1.01	1.00	0.5	20	101	X439009 - X4I0153-01	
EPA 200.7	Barium	mg/L	1.17	1.18	1.00	0.6	20	97.8	X439009 - X4I0153-01	
EPA 200.7	Beryllium	mg/L	1.02	1.02	1.00	0.4	20	102	X439009 - X4I0153-01	
EPA 200.7	Boron	mg/L	1.01	1.01	1.00	0.3	20	99.0	X439009 - X4I0153-01	
EPA 200.7	Cadmium	mg/L	0.975	0.987	1.00	1.2	20	97.5	X439009 - X4I0153-01	
EPA 200.7	Calcium	mg/L	48.7	48.3	20.0	0.7	20	96.6	X439009 - X4I0153-01	
EPA 200.7	Chromium	mg/L	0.986	0.984	1.00	0.2	20	98.6	X439009 - X4I0153-01	
EPA 200.7	Cobalt	mg/L	0.953	0.966	1.00	1.4	20	95.3	X439009 - X4I0153-01	
EPA 200.7	Copper	mg/L	0.974	0.974	1.00	0.0	20	97.4	X439009 - X4I0153-01	
EPA 200.7	Iron	mg/L	9.97	9.73	10.0	2.4	20	99.7	X439009 - X4I0153-01	
EPA 200.7	Lead	mg/L	0.974	0.983	1.00	0.9	20	97.4	X439009 - X4I0153-01	
EPA 200.7	Lithium	mg/L	0.977	0.981	1.00	0.3	20	97.7	X439009 - X4I0153-01	
EPA 200.7	Magnesium	mg/L	26.7	26.2	20.0	1.9	20	99.8	X439009 - X4I0153-01	
EPA 200.7	Manganese	mg/L	0.986	0.987	1.00	0.1	20	98.0	X439009 - X4I0153-01	
EPA 200.7	Molybdenum	mg/L	0.999	1.01	1.00	0.6	20	99.5	X439009 - X4I0153-01	
EPA 200.7	Nickel	mg/L	0.953	0.966	1.00	1.4	20	95.3	X439009 - X4I0153-01	
EPA 200.7	Potassium	mg/L	20.7	20.1	20.0	2.9	20	98.5	X439009 - X4I0153-01	
EPA 200.7	Silver	mg/L	0.0530	0.0539	0.0500	1.6	20	106	X439009 - X4I0153-01	
EPA 200.7	Sodium	mg/L	49.9	49.6	19.0	0.6	20	96.7	X439009 - X4I0153-01	
EPA 200.7	Vanadium	mg/L	1.00	1.00	1.00	0.4	20	100	X439009 - X4I0153-01	
EPA 200.7	Zinc	mg/L	1.00	1.01	1.00	1.0	20	100	X439009 - X4I0153-01	
EPA 200.8	Antimony	mg/L	0.0250	0.0250	0.0250	0.1	20	100	X440113 - X4I0330-02	
EPA 200.8	Arsenic	mg/L	0.0257	0.0261	0.0250	1.9	20	103	X440113 - X4I0330-02	
EPA 200.8	Selenium	mg/L	0.0246	0.0260	0.0250	5.7	20	96.8	X440113 - X4I0330-02	
EPA 200.8	Thallium	mg/L	0.0253	0.0248	0.0250	1.8	20	101	X440113 - X4I0330-02	
EPA 200.8	Uranium	mg/L	0.0255	0.0254	0.0250	0.4	20	102	X440113 - X4I0330-02	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00202	0.00208	0.00200	2.7	20	101	X439071 - X4I0313-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.102	0.0980	0.100	4.0	11	102	X439153 - X4I0262-01	
EPA 335.4	Cyanide (total)	mg/L	0.585	0.588	0.100	0.6	20	0.30R>S	X439001 - X4I0211-01	M4
EPA 350.1	Ammonia as N	mg/L	1.14	1.16	1.00	2.4	20	107	X438186 - X4I0277-01	
OIA 1677	Cyanide (WAD)	mg/L	0.108	0.101	0.100	6.7	11	106	X438184 - X4I0262-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.09	4.04	3.00	1.2	20	101	X438168 - X4I0274-04	
EPA 300.0	Fluoride	mg/L	2.02	2.00	2.00	1.1	20	99.7	X438168 - X4I0274-04	
EPA 300.0	Nitrate as N	mg/L	1.99	1.96	2.00	1.5	20	98.0	X438168 - X4I0274-04	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.01	3.96	4.00	1.4	20	100	X438168 - X4I0274-04	
EPA 300.0	Nitrite as N	mg/L	2.02	1.99	2.00	1.4	20	101	X438168 - X4I0274-04	
EPA 300.0	Sulfate as SO4	mg/L	12.3	12.2	10.0	0.8	20	99.4	X438168 - X4I0274-04	

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4I0313**
Victor, CO 80860	Reported: 08-Oct-24 16:19

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.
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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Surface Water

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Post Office Box 191
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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0253**
Reported: 30-Jul-24 11:04

Client Sample ID: **GV-06**
SVL Sample ID: **X4G0253-03 (Surface Water)**

Sampled: 16-Jul-24 09:39
Received: 17-Jul-24
Sampled By: KR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 245.1	Mercury	< 0.000093	mg/L	0.000200	0.000093		X429144	MAC	07/23/24 15:52	U
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Barium**	0.236	mg/L	0.0020	0.0019		X430007	SJN	07/24/24 12:30	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X430007	SJN	07/24/24 12:30	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X430007	SJN	07/24/24 12:30	
EPA 200.7	**Calcium**	49.9	mg/L	0.100	0.069		X430007	SJN	07/24/24 12:30	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X430007	SJN	07/24/24 12:30	
EPA 200.7	**Iron**	5.82	mg/L	0.100	0.056		X430007	SJN	07/24/24 12:30	
EPA 200.7	**Magnesium**	12.7	mg/L	0.500	0.090		X430007	SJN	07/24/24 12:30	
EPA 200.7	**Manganese**	2.49	mg/L	0.0080	0.0034		X430007	SJN	07/24/24 12:30	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X430007	SJN	07/24/24 12:30	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X430007	SJN	07/24/24 12:30	
EPA 200.7	**Phosphorus**	0.166	mg/L	0.050	0.013		X430007	SJN	07/24/24 12:30	
EPA 200.7	**Potassium**	1.53	mg/L	0.50	0.18		X430007	SJN	07/24/24 12:30	
EPA 200.7	**Sodium**	12.5	mg/L	0.50	0.12		X430007	SJN	07/24/24 12:30	
EPA 200.7	**Zinc**	0.0108	mg/L	0.0100	0.0054		X430007	SJN	07/24/24 12:30	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X430018	JRR	07/23/24 13:31	
EPA 200.8	**Arsenic**	0.00123	mg/L	0.00100	0.00021		X430018	JRR	07/23/24 13:31	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X430018	JRR	07/23/24 13:31	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X430018	JRR	07/23/24 13:31	
EPA 200.8	**Copper**	0.00094	mg/L	0.00040	0.00036		X430018	JRR	07/23/24 13:31	
EPA 200.8	**Lead**	0.00176	mg/L	0.00020	0.00014		X430018	JRR	07/23/24 13:31	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X430018	JRR	07/23/24 13:31	
SM 2340 B	**Hardness (as CaC03)**	171	mg/L	2.31	0.543		N/A		07/24/24 12:30	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X430053	NMS	07/23/24 10:54	
EPA 200.7	**Barium**	0.0971	mg/L	0.0020	0.0019		X430053	NMS	07/23/24 10:54	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X430053	NMS	07/23/24 10:54	
EPA 200.7	**Calcium**	44.4	mg/L	0.100	0.069		X430053	NMS	07/23/24 10:54	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X430053	NMS	07/23/24 10:54	
EPA 200.7	**Magnesium**	11.3	mg/L	0.500	0.090		X430053	NMS	07/23/24 10:54	
EPA 200.7	**Manganese**	0.381	mg/L	0.0080	0.0034		X430053	NMS	07/23/24 10:54	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X430053	NMS	07/23/24 10:54	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X430053	NMS	07/23/24 10:54	
EPA 200.7	**Potassium**	1.19	mg/L	0.50	0.18		X430053	NMS	07/23/24 10:54	
EPA 200.7	**Sodium**	11.3	mg/L	0.50	0.12		X430053	NMS	07/23/24 10:54	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X430053	NMS	07/23/24 10:54	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X429204	JRR	07/24/24 10:07	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X429204	JRR	07/24/24 10:07	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X429204	JRR	07/24/24 10:07	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X429204	JRR	07/24/24 10:07	
EPA 200.8	Copper	< 0.00040	mg/L	0.00040	0.00036		X429204	JRR	07/24/24 10:07	
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X429204	JRR	07/24/24 10:07	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X429204	JRR	07/24/24 10:07	
EPA 200.8	Silver	< 0.00008	mg/L	0.00008	0.000061		X429204	JRR	07/24/24 10:07	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X429204	JRR	07/24/24 10:07	
EPA 200.8	**Uranium**	0.00214	mg/L	0.000100	0.000052		X429204	JRR	07/24/24 10:07	

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0253**
Reported: 30-Jul-24 11:04

Client Sample ID: **GV-06**
SVL Sample ID: **X4G0253-03 (Surface Water)**

Sampled: 16-Jul-24 09:39
Received: 17-Jul-24
Sampled By: KR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X429236	MAC	07/29/24 16:52	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X430067	DD	07/25/24 11:09	
Calculation	Chromium(III)	< 0.0110	mg/L	0.0110	0.00390		N/A		07/24/24 12:30	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X430014	DD	07/23/24 16:46	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X429168	DD	07/19/24 12:37	
EPA 351.2	**TKN**	0.72	mg/L	0.50	0.31		X430034	DD	07/25/24 14:33	B10
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X430078	DD	07/23/24 16:37	
SM 2310 B	**Acidity to pH 8.3**	-121	mg/L as CaCO3	10.0			X430198	MWD	07/26/24 11:20	
SM 2320 B	**Total Alkalinity**	125	mg/L as CaCO3	1.0			X429127	MWD	07/18/24 12:37	
SM 2320 B	**Bicarbonate**	125	mg/L as CaCO3	1.0			X429127	MWD	07/18/24 12:37	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X429127	MWD	07/18/24 12:37	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X429127	MWD	07/18/24 12:37	
SM 2540 C	**Total Diss. Solids**	825	mg/L	10			X429116	TJL	07/19/24 12:45	
SM 2540 D	**Total Susp. Solids**	8.0	mg/L	5.0			X429117	TJL	07/19/24 12:20	
SM 4500 H B	**pH @22.9°C**	7.3	pH Units				X429127	MWD	07/18/24 12:37	H5
SM 4500 S D	Sulfide	< 0.050	mg/L	0.050	0.020		X429199	MCM	07/22/24 16:26	
SM 4500-O-G	**Dissolved Oxygen**	5.4	mg/L	0.1			X429115	TJL	07/19/24 08:00	H3,H5
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	< 0.0050	mg/L	0.0050	0.0019		X429124	MCM	07/18/24 16:30	
Filtered Classical Chemistry Parameters										
Calculation	Chromium(III)-Dissolved	< 0.00600	mg/L	0.00600	0.00207		N/A		07/24/24 10:07	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	7.75	mg/L	0.20	0.02		X429134	KAG	07/18/24 15:11	
EPA 300.0	**Fluoride**	0.590	mg/L	0.100	0.017		X429134	KAG	07/18/24 15:11	
EPA 300.0	**Nitrate as N**	0.134	mg/L	0.050	0.013		X429134	KAG	07/18/24 15:11	H1
EPA 300.0	**Nitrate+Nitrite as N**	0.137	mg/L	0.100	0.044		X429134	KAG	07/18/24 15:11	H1
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X429134	KAG	07/18/24 15:11	H1
EPA 300.0	**Sulfate as SO4**	64.7	mg/L	3.00	1.80	10	X429134	KAG	07/18/24 15:27	M4

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.69 meq/L Anion Sum: 4.10 meq/L C/A Balance: -5.29 % Calculated TDS: 221 TDS/cTDS: 3.73

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

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Newmont - Cripple Creek & Victor
Post Office Box 191
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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0253**
Reported: 30-Jul-24 11:04

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total)								
EPA 245.1	Mercury	mg/L	<0.000093	0.000093	0.000200	X429144	23-Jul-24	U
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X430007	24-Jul-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X430007	24-Jul-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X430007	24-Jul-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X430007	24-Jul-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X430007	24-Jul-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X430007	24-Jul-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X430007	24-Jul-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X430007	24-Jul-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X430007	24-Jul-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X430007	24-Jul-24	
EPA 200.7	Phosphorus	mg/L	<0.050	0.013	0.050	X430007	24-Jul-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X430007	24-Jul-24	
EPA 200.7	Sodium	mg/L	<0.12	0.12	0.50	X430007	24-Jul-24	U
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X430007	24-Jul-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X430018	23-Jul-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X430018	23-Jul-24	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X430018	23-Jul-24	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X430018	23-Jul-24	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X430018	23-Jul-24	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X430018	23-Jul-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X430018	23-Jul-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X430053	23-Jul-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X430053	23-Jul-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X430053	23-Jul-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X430053	23-Jul-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X430053	23-Jul-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X430053	23-Jul-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X430053	23-Jul-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X430053	23-Jul-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X430053	23-Jul-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X430053	23-Jul-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X430053	23-Jul-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X430053	23-Jul-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X430053	23-Jul-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X430053	23-Jul-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X430053	23-Jul-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X430053	23-Jul-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X430053	23-Jul-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X430053	23-Jul-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X430053	23-Jul-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X430053	23-Jul-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X430053	23-Jul-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X429204	24-Jul-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X429204	24-Jul-24	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X429204	24-Jul-24	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X429204	24-Jul-24	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X429204	24-Jul-24	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X429204	24-Jul-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X429204	24-Jul-24	
EPA 200.8	Silver	mg/L	<0.00008	0.000061	0.00008	X429204	24-Jul-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X429204	24-Jul-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X429204	24-Jul-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0253**
Reported: 30-Jul-24 11:04

Quality Control - BLANK Data (Continued)

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X429236	29-Jul-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X430067	25-Jul-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X430014	23-Jul-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X429168	19-Jul-24	
EPA 351.2	TKN	mg/L	<0.50	0.31	0.50	X430034	25-Jul-24	B10
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X430078	23-Jul-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X430198	26-Jul-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X429127	18-Jul-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X429127	18-Jul-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X429127	18-Jul-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X429127	18-Jul-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X429116	19-Jul-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X429117	19-Jul-24	
SM 4500 S D	Sulfide	mg/L	<0.050	0.020	0.050	X429199	22-Jul-24	
Dissolved Classical Chemistry Parameters								
SM 3500 Cr B	Hexavalent Chromium	mg/L	<0.0050	0.0019	0.0050	X429124	18-Jul-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X429134	19-Jul-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X429134	19-Jul-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X429134	19-Jul-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X429134	19-Jul-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X429134	19-Jul-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X429134	19-Jul-24	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)									
EPA 245.1	Mercury	mg/L	0.00228	0.00200	114	85 - 115	X429144	23-Jul-24	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Barium	mg/L	1.03	1.00	103	85 - 115	X430007	24-Jul-24	
EPA 200.7	Beryllium	mg/L	1.03	1.00	103	85 - 115	X430007	24-Jul-24	
EPA 200.7	Boron	mg/L	1.02	1.00	102	85 - 115	X430007	24-Jul-24	
EPA 200.7	Calcium	mg/L	20.7	20.0	103	85 - 115	X430007	24-Jul-24	
EPA 200.7	Chromium	mg/L	1.03	1.00	103	85 - 115	X430007	24-Jul-24	
EPA 200.7	Iron	mg/L	10.5	10.0	105	85 - 115	X430007	24-Jul-24	
EPA 200.7	Magnesium	mg/L	21.0	20.0	105	85 - 115	X430007	24-Jul-24	
EPA 200.7	Manganese	mg/L	1.02	1.00	102	85 - 115	X430007	24-Jul-24	
EPA 200.7	Molybdenum	mg/L	1.03	1.00	103	85 - 115	X430007	24-Jul-24	
EPA 200.7	Nickel	mg/L	0.992	1.00	99.2	85 - 115	X430007	24-Jul-24	
EPA 200.7	Phosphorus	mg/L	1.03	1.00	103	85 - 115	X430007	24-Jul-24	
EPA 200.7	Potassium	mg/L	20.8	20.0	104	85 - 115	X430007	24-Jul-24	
EPA 200.7	Sodium	mg/L	19.7	19.0	104	85 - 115	X430007	24-Jul-24	
EPA 200.7	Zinc	mg/L	0.999	1.00	99.9	85 - 115	X430007	24-Jul-24	
EPA 200.8	Antimony	mg/L	0.0253	0.0250	101	85 - 115	X430018	23-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0243	0.0250	97.2	85 - 115	X430018	23-Jul-24	
EPA 200.8	Cadmium	mg/L	0.0248	0.0250	99.1	85 - 115	X430018	23-Jul-24	
EPA 200.8	Chromium	mg/L	0.0241	0.0250	96.5	85 - 115	X430018	23-Jul-24	

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Newmont - Cripple Creek & Victor
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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0253**
Reported: 30-Jul-24 11:04

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 200.8	Copper	mg/L	0.0251	0.0250	100	85 - 115	X430018	23-Jul-24	
EPA 200.8	Lead	mg/L	0.0249	0.0250	99.7	85 - 115	X430018	23-Jul-24	
EPA 200.8	Selenium	mg/L	0.0241	0.0250	96.3	85 - 115	X430018	23-Jul-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.993	1.00	99.3	85 - 115	X430053	23-Jul-24	
EPA 200.7	Barium	mg/L	1.01	1.00	101	85 - 115	X430053	23-Jul-24	
EPA 200.7	Beryllium	mg/L	1.04	1.00	104	85 - 115	X430053	23-Jul-24	
EPA 200.7	Boron	mg/L	1.03	1.00	103	85 - 115	X430053	23-Jul-24	
EPA 200.7	Cadmium	mg/L	1.01	1.00	101	85 - 115	X430053	23-Jul-24	
EPA 200.7	Calcium	mg/L	19.9	20.0	99.7	85 - 115	X430053	23-Jul-24	
EPA 200.7	Chromium	mg/L	1.03	1.00	103	85 - 115	X430053	23-Jul-24	
EPA 200.7	Cobalt	mg/L	0.996	1.00	99.6	85 - 115	X430053	23-Jul-24	
EPA 200.7	Copper	mg/L	1.03	1.00	103	85 - 115	X430053	23-Jul-24	
EPA 200.7	Iron	mg/L	10.1	10.0	101	85 - 115	X430053	23-Jul-24	
EPA 200.7	Lead	mg/L	0.995	1.00	99.5	85 - 115	X430053	23-Jul-24	
EPA 200.7	Lithium	mg/L	0.982	1.00	98.2	85 - 115	X430053	23-Jul-24	
EPA 200.7	Magnesium	mg/L	20.0	20.0	100	85 - 115	X430053	23-Jul-24	
EPA 200.7	Manganese	mg/L	1.01	1.00	101	85 - 115	X430053	23-Jul-24	
EPA 200.7	Molybdenum	mg/L	1.03	1.00	103	85 - 115	X430053	23-Jul-24	
EPA 200.7	Nickel	mg/L	0.996	1.00	99.6	85 - 115	X430053	23-Jul-24	
EPA 200.7	Potassium	mg/L	20.3	20.0	102	85 - 115	X430053	23-Jul-24	
EPA 200.7	Silver	mg/L	0.0491	0.0500	98.2	85 - 115	X430053	23-Jul-24	
EPA 200.7	Sodium	mg/L	19.1	19.0	100	85 - 115	X430053	23-Jul-24	
EPA 200.7	Vanadium	mg/L	1.03	1.00	103	85 - 115	X430053	23-Jul-24	
EPA 200.7	Zinc	mg/L	1.02	1.00	102	85 - 115	X430053	23-Jul-24	
EPA 200.8	Antimony	mg/L	0.0243	0.0250	97.1	85 - 115	X429204	24-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0238	0.0250	95.3	85 - 115	X429204	24-Jul-24	
EPA 200.8	Cadmium	mg/L	0.0240	0.0250	96.0	85 - 115	X429204	24-Jul-24	
EPA 200.8	Chromium	mg/L	0.0242	0.0250	96.9	85 - 115	X429204	24-Jul-24	
EPA 200.8	Copper	mg/L	0.0242	0.0250	97.0	85 - 115	X429204	24-Jul-24	
EPA 200.8	Lead	mg/L	0.0248	0.0250	99.2	85 - 115	X429204	24-Jul-24	
EPA 200.8	Selenium	mg/L	0.0237	0.0250	94.8	85 - 115	X429204	24-Jul-24	
EPA 200.8	Silver	mg/L	0.0254	0.0250	102	85 - 115	X429204	24-Jul-24	
EPA 200.8	Thallium	mg/L	0.0241	0.0250	96.5	85 - 115	X429204	24-Jul-24	
EPA 200.8	Uranium	mg/L	0.0246	0.0250	98.5	85 - 115	X429204	24-Jul-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00209	0.00200	104	85 - 115	X429236	29-Jul-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.103	0.100	103	90 - 110	X430067	25-Jul-24	
EPA 335.4	Cyanide (total)	mg/L	0.0990	0.100	99.0	90 - 110	X430014	23-Jul-24	
EPA 350.1	Ammonia as N	mg/L	0.988	1.00	98.8	90 - 110	X429168	19-Jul-24	
EPA 351.2	TKN	mg/L	7.64	8.00	95.5	90 - 110	X430034	25-Jul-24	B10
OIA 1677	Cyanide (WAD)	mg/L	0.106	0.100	106	90 - 110	X430078	23-Jul-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	887	884	100	95.4 - 104	X430198	26-Jul-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.90	9.93	99.7	96.4 - 105	X429127	18-Jul-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	102	96.4 - 105	X429127	18-Jul-24	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X429117	19-Jul-24	
SM 4500 S D	Sulfide	mg/L	0.479	0.500	95.8	85 - 115	X429199	22-Jul-24	
Dissolved Classical Chemistry Parameters									
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.102	0.100	102	80 - 120	X429124	18-Jul-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.14	3.00	105	90 - 110	X429134	19-Jul-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0253**
Reported: 30-Jul-24 11:04

Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Anions by Ion Chromatography (Continued)									
EPA 300.0	Fluoride	mg/L	2.06	2.00	103	90 - 110	X429134	19-Jul-24	
EPA 300.0	Nitrate as N	mg/L	2.09	2.00	104	90 - 110	X429134	19-Jul-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.69	4.50	104	90 - 110	X429134	19-Jul-24	
EPA 300.0	Nitrite as N	mg/L	2.61	2.50	104	90 - 110	X429134	19-Jul-24	
EPA 300.0	Sulfate as SO4	mg/L	10.7	10.0	107	90 - 110	X429134	19-Jul-24	

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0	<10.0	UDL	20	X430198 - X4G0253-03	26-Jul-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0	<1.0	UDL	20	X429127 - X4G0253-02	18-Jul-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X429127 - X4G0253-02	18-Jul-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X429127 - X4G0253-02	18-Jul-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X429127 - X4G0253-02	18-Jul-24	
SM 2540 C	Total Diss. Solids	mg/L	239	242	1.3	10	X429116 - X4G0231-02	19-Jul-24	
SM 2540 C	Total Diss. Solids	mg/L	329	327	0.6	10	X429116 - X4G0237-02	19-Jul-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X429117 - X4G0237-02	19-Jul-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	5.0	<RL	10	X429117 - X4G0231-02	19-Jul-24	
SM 4500 H B	pH @23.0°C	pH Units	2.0	2.1	0.5	20	X429127 - X4G0253-02	18-Jul-24	
SM 4500-O-G	Dissolved Oxygen	mg/L	6.0	6.0	0.0	20	X429115 - X4G0246-01	19-Jul-24	
SM 4500-O-G	Dissolved Oxygen	mg/L	7.0	7.1	1.4	20	X429115 - X4G0292-01	19-Jul-24	

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 245.1	Mercury	mg/L	0.00333	0.00105	0.00200	114	70 - 130	X429144 - X4G0238-02	23-Jul-24	
EPA 245.1	Mercury	mg/L	0.00221	<0.000093	0.00200	111	70 - 130	X429144 - X4G0290-06	23-Jul-24	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	1.22	0.191	1.00	102	70 - 130	X430007 - X4G0246-01	24-Jul-24	
EPA 200.7	Barium	mg/L	1.04	0.0362	1.00	100	70 - 130	X430007 - X4G0253-04	24-Jul-24	
EPA 200.7	Beryllium	mg/L	1.03	<0.00200	1.00	103	70 - 130	X430007 - X4G0246-01	24-Jul-24	
EPA 200.7	Beryllium	mg/L	1.01	<0.00200	1.00	101	70 - 130	X430007 - X4G0253-04	24-Jul-24	
EPA 200.7	Boron	mg/L	1.03	<0.0400	1.00	101	70 - 130	X430007 - X4G0246-01	24-Jul-24	
EPA 200.7	Boron	mg/L	1.03	<0.0400	1.00	102	70 - 130	X430007 - X4G0253-04	24-Jul-24	
EPA 200.7	Calcium	mg/L	63.4	42.6	20.0	104	70 - 130	X430007 - X4G0246-01	24-Jul-24	
EPA 200.7	Calcium	mg/L	67.8	48.9	20.0	95	70 - 130	X430007 - X4G0253-04	24-Jul-24	
EPA 200.7	Chromium	mg/L	0.995	<0.0060	1.00	99.5	70 - 130	X430007 - X4G0246-01	24-Jul-24	
EPA 200.7	Chromium	mg/L	1.00	<0.0060	1.00	100	70 - 130	X430007 - X4G0253-04	24-Jul-24	
EPA 200.7	Iron	mg/L	10.5	0.109	10.0	104	70 - 130	X430007 - X4G0246-01	24-Jul-24	
EPA 200.7	Iron	mg/L	11.2	1.04	10.0	102	70 - 130	X430007 - X4G0253-04	24-Jul-24	
EPA 200.7	Magnesium	mg/L	38.6	17.9	20.0	103	70 - 130	X430007 - X4G0246-01	24-Jul-24	
EPA 200.7	Magnesium	mg/L	32.4	12.6	20.0	99.5	70 - 130	X430007 - X4G0253-04	24-Jul-24	
EPA 200.7	Manganese	mg/L	1.02	0.0130	1.00	101	70 - 130	X430007 - X4G0246-01	24-Jul-24	
EPA 200.7	Manganese	mg/L	1.73	0.766	1.00	96.7	70 - 130	X430007 - X4G0253-04	24-Jul-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0253**
Reported: 30-Jul-24 11:04

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136) (Continued)										
EPA 200.7	Molybdenum	mg/L	1.03	<0.0080	1.00	103	70 - 130	X430007 - X4G0246-01	24-Jul-24	
EPA 200.7	Molybdenum	mg/L	1.03	<0.0080	1.00	103	70 - 130	X430007 - X4G0253-04	24-Jul-24	
EPA 200.7	Nickel	mg/L	0.979	<0.0100	1.00	97.9	70 - 130	X430007 - X4G0246-01	24-Jul-24	
EPA 200.7	Nickel	mg/L	0.979	<0.0100	1.00	97.9	70 - 130	X430007 - X4G0253-04	24-Jul-24	
EPA 200.7	Phosphorus	mg/L	1.07	<0.050	1.00	103	70 - 130	X430007 - X4G0246-01	24-Jul-24	
EPA 200.7	Phosphorus	mg/L	1.08	<0.050	1.00	105	70 - 130	X430007 - X4G0253-04	24-Jul-24	
EPA 200.7	Potassium	mg/L	22.0	1.08	20.0	104	70 - 130	X430007 - X4G0246-01	24-Jul-24	
EPA 200.7	Potassium	mg/L	22.4	1.80	20.0	103	70 - 130	X430007 - X4G0253-04	24-Jul-24	
EPA 200.7	Sodium	mg/L	22.5	2.85	19.0	103	70 - 130	X430007 - X4G0246-01	24-Jul-24	
EPA 200.7	Sodium	mg/L	33.2	14.4	19.0	98.9	70 - 130	X430007 - X4G0253-04	24-Jul-24	
EPA 200.7	Zinc	mg/L	0.986	<0.0100	1.00	97.7	70 - 130	X430007 - X4G0246-01	24-Jul-24	
EPA 200.7	Zinc	mg/L	0.978	<0.0100	1.00	97.8	70 - 130	X430007 - X4G0253-04	24-Jul-24	
EPA 200.8	Antimony	mg/L	0.0254	<0.00100	0.0250	102	70 - 130	X430018 - X4G0222-01	23-Jul-24	
EPA 200.8	Antimony	mg/L	0.0256	<0.00100	0.0250	102	70 - 130	X430018 - X4G0253-05	23-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0268	0.00197	0.0250	99.3	70 - 130	X430018 - X4G0222-01	23-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0264	0.00151	0.0250	99.5	70 - 130	X430018 - X4G0253-05	23-Jul-24	
EPA 200.8	Cadmium	mg/L	0.0243	<0.000100	0.0250	97.4	70 - 130	X430018 - X4G0222-01	23-Jul-24	
EPA 200.8	Cadmium	mg/L	0.0243	<0.000100	0.0250	97.3	70 - 130	X430018 - X4G0253-05	23-Jul-24	
EPA 200.8	Chromium	mg/L	0.0245	<0.00100	0.0250	98.2	70 - 130	X430018 - X4G0222-01	23-Jul-24	
EPA 200.8	Chromium	mg/L	0.0248	<0.00100	0.0250	99.3	70 - 130	X430018 - X4G0253-05	23-Jul-24	
EPA 200.8	Copper	mg/L	0.0262	0.00139	0.0250	99.2	70 - 130	X430018 - X4G0222-01	23-Jul-24	
EPA 200.8	Copper	mg/L	0.0245	0.00076	0.0250	95.1	70 - 130	X430018 - X4G0253-05	23-Jul-24	
EPA 200.8	Lead	mg/L	0.0245	<0.00020	0.0250	98.0	70 - 130	X430018 - X4G0222-01	23-Jul-24	
EPA 200.8	Lead	mg/L	0.0245	<0.00020	0.0250	97.3	70 - 130	X430018 - X4G0253-05	23-Jul-24	
EPA 200.8	Selenium	mg/L	0.0234	<0.00100	0.0250	91.5	70 - 130	X430018 - X4G0222-01	23-Jul-24	
EPA 200.8	Selenium	mg/L	0.0248	<0.00100	0.0250	98.1	70 - 130	X430018 - X4G0253-05	23-Jul-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.939	<0.080	1.00	93.9	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Aluminum	mg/L	4.99	4.08	1.00	91.1	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Barium	mg/L	1.03	0.0475	1.00	98.1	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Barium	mg/L	0.993	0.0139	1.00	97.9	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Beryllium	mg/L	0.985	<0.00200	1.00	98.5	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Beryllium	mg/L	0.980	0.0145	1.00	96.5	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Boron	mg/L	1.05	<0.0400	1.00	102	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Boron	mg/L	1.05	0.0480	1.00	100	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Cadmium	mg/L	0.946	<0.0020	1.00	94.6	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Cadmium	mg/L	0.921	<0.0020	1.00	92.1	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Calcium	mg/L	187	169	20.0	90.7	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Calcium	mg/L	566	551	20.0	78.6	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Chromium	mg/L	0.980	<0.0060	1.00	98.0	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Chromium	mg/L	0.966	<0.0060	1.00	96.6	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Cobalt	mg/L	0.936	<0.0060	1.00	93.6	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Cobalt	mg/L	0.966	0.0393	1.00	92.7	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Copper	mg/L	0.990	<0.0100	1.00	98.1	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Copper	mg/L	1.28	0.269	1.00	101	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Iron	mg/L	9.66	<0.100	10.0	96.6	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Iron	mg/L	9.67	<0.100	10.0	96.7	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Lead	mg/L	0.931	<0.0075	1.00	93.1	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Lead	mg/L	0.913	<0.0075	1.00	91.3	70 - 130	X430053 - X4G0325-02	23-Jul-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0253**
Reported: 30-Jul-24 11:04

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Lithium	mg/L	0.932	<0.040	1.00	93.2	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Lithium	mg/L	0.907	<0.040	1.00	90.7	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Magnesium	mg/L	39.2	20.1	20.0	95.6	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Magnesium	mg/L	162	140	20.0	109	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Manganese	mg/L	0.961	<0.0080	1.00	95.4	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Manganese	mg/L	13.8	13.0	1.00	83.9	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Molybdenum	mg/L	1.53	0.543	1.00	98.5	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Molybdenum	mg/L	0.981	<0.0080	1.00	97.6	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Nickel	mg/L	0.935	<0.0100	1.00	93.5	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Nickel	mg/L	1.04	0.106	1.00	93.0	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Potassium	mg/L	23.8	4.30	20.0	97.7	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Potassium	mg/L	27.1	6.75	20.0	102	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Silver	mg/L	0.0416	<0.0050	0.0500	83.2	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Silver	mg/L	0.0395	<0.0050	0.0500	78.9	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Sodium	mg/L	71.7	54.2	19.0	92.2	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Sodium	mg/L	99.2	81.1	19.0	95.3	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Vanadium	mg/L	0.999	<0.0050	1.00	99.9	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Vanadium	mg/L	0.997	<0.0050	1.00	99.5	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Zinc	mg/L	0.971	<0.0100	1.00	97.1	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Zinc	mg/L	1.21	0.258	1.00	95.3	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.8	Antimony	mg/L	0.0230	<0.00100	0.0250	91.8	70 - 130	X429204 - X4G0194-01	24-Jul-24	
EPA 200.8	Antimony	mg/L	0.0257	<0.00100	0.0250	103	70 - 130	X429204 - X4G0253-03	24-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0238	<0.00100	0.0250	93.7	70 - 130	X429204 - X4G0194-01	24-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0250	<0.00100	0.0250	99.0	70 - 130	X429204 - X4G0253-03	24-Jul-24	
EPA 200.8	Cadmium	mg/L	0.0225	<0.000100	0.0250	90.1	70 - 130	X429204 - X4G0194-01	24-Jul-24	
EPA 200.8	Cadmium	mg/L	0.0246	<0.000100	0.0250	98.6	70 - 130	X429204 - X4G0253-03	24-Jul-24	
EPA 200.8	Chromium	mg/L	0.0234	<0.00100	0.0250	93.8	70 - 130	X429204 - X4G0194-01	24-Jul-24	
EPA 200.8	Chromium	mg/L	0.0240	<0.00100	0.0250	95.9	70 - 130	X429204 - X4G0253-03	24-Jul-24	
EPA 200.8	Copper	mg/L	0.0236	<0.00040	0.0250	94.5	70 - 130	X429204 - X4G0194-01	24-Jul-24	
EPA 200.8	Copper	mg/L	0.0247	<0.00040	0.0250	98.8	70 - 130	X429204 - X4G0253-03	24-Jul-24	
EPA 200.8	Lead	mg/L	0.0228	<0.00020	0.0250	91.1	70 - 130	X429204 - X4G0194-01	24-Jul-24	
EPA 200.8	Lead	mg/L	0.0241	<0.00020	0.0250	96.3	70 - 130	X429204 - X4G0253-03	24-Jul-24	
EPA 200.8	Selenium	mg/L	0.0224	<0.00100	0.0250	89.8	70 - 130	X429204 - X4G0194-01	24-Jul-24	
EPA 200.8	Selenium	mg/L	0.0238	<0.00100	0.0250	95.0	70 - 130	X429204 - X4G0253-03	24-Jul-24	
EPA 200.8	Silver	mg/L	0.0233	<0.00008	0.0250	93.2	70 - 130	X429204 - X4G0194-01	24-Jul-24	
EPA 200.8	Silver	mg/L	0.0247	<0.00008	0.0250	98.9	70 - 130	X429204 - X4G0253-03	24-Jul-24	
EPA 200.8	Thallium	mg/L	0.0229	<0.000200	0.0250	91.4	70 - 130	X429204 - X4G0194-01	24-Jul-24	
EPA 200.8	Thallium	mg/L	0.0237	<0.000200	0.0250	94.9	70 - 130	X429204 - X4G0253-03	24-Jul-24	
EPA 200.8	Uranium	mg/L	0.0231	<0.000100	0.0250	92.3	70 - 130	X429204 - X4G0194-01	24-Jul-24	
EPA 200.8	Uranium	mg/L	0.0267	0.00214	0.0250	98.1	70 - 130	X429204 - X4G0253-03	24-Jul-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00211	<0.000200	0.00200	106	70 - 130	X429236 - X4G0253-04	29-Jul-24	
EPA 245.1	Mercury	mg/L	0.00214	<0.000200	0.00200	107	70 - 130	X429236 - X4G0290-05	29-Jul-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.105	<0.0050	0.100	105	79 - 121	X430067 - X4G0246-01	25-Jul-24	
EPA 335.4	Cyanide (total)	mg/L	0.0400	<0.0050	0.100	40.0	90 - 110	X430014 - X4G0238-01	23-Jul-24	M2
EPA 335.4	Cyanide (total)	mg/L	0.0823	0.0057	0.100	76.6	90 - 110	X430014 - X4G0238-02	23-Jul-24	M2
EPA 350.1	Ammonia as N	mg/L	0.986	<0.030	1.00	96.5	90 - 110	X429168 - X4G0253-03	19-Jul-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0253**
Reported: 30-Jul-24 11:04

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters (Continued)										
EPA 351.2	TKN	mg/L	6.02	<0.50	8.00	70.6	90 - 110	X430034 - X4G0250-01	25-Jul-24	B10,M2,R2B
EPA 351.2	TKN	mg/L	8.03	0.81	8.00	90.3	90 - 110	X430034 - X4G0250-02	25-Jul-24	B10
OIA 1677	Cyanide (WAD)	mg/L	0.0890	<0.0050	0.100	89.0	82 - 118	X430078 - X4G0192-02	23-Jul-24	
SM 4500 S D	Sulfide	mg/L	0.240	<0.050	0.200	120	75 - 125	X429199 - X4G0246-01	22-Jul-24	
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0204	<0.0050	0.0200	102	75 - 125	X429124 - X4G0181-03	18-Jul-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	11.0	7.75	3.00	108	90 - 110	X429134 - X4G0253-03	18-Jul-24	
EPA 300.0	Chloride	mg/L	3.74	0.52	3.00	108	90 - 110	X429134 - X4G0266-01	18-Jul-24	
EPA 300.0	Fluoride	mg/L	2.58	0.590	2.00	99.7	90 - 110	X429134 - X4G0253-03	18-Jul-24	
EPA 300.0	Fluoride	mg/L	2.57	0.420	2.00	107	90 - 110	X429134 - X4G0266-01	18-Jul-24	
EPA 300.0	Nitrate as N	mg/L	2.20	0.134	2.00	103	90 - 110	X429134 - X4G0253-03	18-Jul-24	
EPA 300.0	Nitrate as N	mg/L	2.12	<0.050	2.00	106	90 - 110	X429134 - X4G0266-01	18-Jul-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.31	0.137	4.00	104	90 - 110	X429134 - X4G0253-03	18-Jul-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.27	<0.100	4.00	107	90 - 110	X429134 - X4G0266-01	18-Jul-24	
EPA 300.0	Nitrite as N	mg/L	2.11	<0.050	2.00	106	90 - 110	X429134 - X4G0253-03	18-Jul-24	
EPA 300.0	Nitrite as N	mg/L	2.16	<0.050	2.00	108	90 - 110	X429134 - X4G0266-01	18-Jul-24	
EPA 300.0	Sulfate as SO4	mg/L	76.1	64.7	10.0	0.30R>S	90 - 110	X429134 - X4G0253-03	18-Jul-24	M4
EPA 300.0	Sulfate as SO4	mg/L	27.5	16.4	10.0	111	90 - 110	X429134 - X4G0266-01	18-Jul-24	M1

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 245.1	Mercury	mg/L	0.00332	0.00333	0.00200	0.3	20	113	X429144 - X4G0238-02	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	1.21	1.22	1.00	0.5	20	102	X430007 - X4G0246-01	
EPA 200.7	Beryllium	mg/L	1.02	1.03	1.00	0.4	20	102	X430007 - X4G0246-01	
EPA 200.7	Boron	mg/L	1.03	1.03	1.00	0.0	20	101	X430007 - X4G0246-01	
EPA 200.7	Calcium	mg/L	62.7	63.4	20.0	1.0	20	101	X430007 - X4G0246-01	
EPA 200.7	Chromium	mg/L	1.04	0.995	1.00	4.1	20	104	X430007 - X4G0246-01	
EPA 200.7	Iron	mg/L	10.4	10.5	10.0	0.5	20	103	X430007 - X4G0246-01	
EPA 200.7	Magnesium	mg/L	38.5	38.6	20.0	0.3	20	103	X430007 - X4G0246-01	
EPA 200.7	Manganese	mg/L	1.02	1.02	1.00	0.2	20	101	X430007 - X4G0246-01	
EPA 200.7	Molybdenum	mg/L	1.02	1.03	1.00	1.1	20	102	X430007 - X4G0246-01	
EPA 200.7	Nickel	mg/L	0.972	0.979	1.00	0.6	20	97.2	X430007 - X4G0246-01	
EPA 200.7	Phosphorus	mg/L	1.08	1.07	1.00	1.1	20	105	X430007 - X4G0246-01	
EPA 200.7	Potassium	mg/L	22.1	22.0	20.0	0.4	20	105	X430007 - X4G0246-01	
EPA 200.7	Sodium	mg/L	22.6	22.5	19.0	0.4	20	104	X430007 - X4G0246-01	
EPA 200.7	Zinc	mg/L	0.984	0.986	1.00	0.2	20	97.4	X430007 - X4G0246-01	
EPA 200.8	Antimony	mg/L	0.0252	0.0254	0.0250	0.9	20	101	X430018 - X4G0222-01	
EPA 200.8	Arsenic	mg/L	0.0261	0.0268	0.0250	2.7	20	96.4	X430018 - X4G0222-01	
EPA 200.8	Cadmium	mg/L	0.0245	0.0243	0.0250	0.6	20	98.0	X430018 - X4G0222-01	
EPA 200.8	Chromium	mg/L	0.0235	0.0245	0.0250	4.3	20	94.0	X430018 - X4G0222-01	
EPA 200.8	Copper	mg/L	0.0253	0.0262	0.0250	3.4	20	95.7	X430018 - X4G0222-01	
EPA 200.8	Lead	mg/L	0.0246	0.0245	0.0250	0.6	20	98.5	X430018 - X4G0222-01	
EPA 200.8	Selenium	mg/L	0.0235	0.0234	0.0250	0.1	20	91.6	X430018 - X4G0222-01	

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Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0253**
Reported: 30-Jul-24 11:04

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.930	0.939	1.00	1.1	20	93.0	X430053 - X4G0325-01	
EPA 200.7	Barium	mg/L	1.03	1.03	1.00	0.2	20	98.3	X430053 - X4G0325-01	
EPA 200.7	Beryllium	mg/L	0.944	0.985	1.00	4.2	20	94.4	X430053 - X4G0325-01	
EPA 200.7	Boron	mg/L	1.04	1.05	1.00	1.3	20	101	X430053 - X4G0325-01	
EPA 200.7	Cadmium	mg/L	0.929	0.946	1.00	1.8	20	92.9	X430053 - X4G0325-01	
EPA 200.7	Calcium	mg/L	188	187	20.0	0.4	20	94.9	X430053 - X4G0325-01	
EPA 200.7	Chromium	mg/L	0.957	0.980	1.00	2.5	20	95.7	X430053 - X4G0325-01	
EPA 200.7	Cobalt	mg/L	0.920	0.936	1.00	1.7	20	92.0	X430053 - X4G0325-01	
EPA 200.7	Copper	mg/L	0.974	0.990	1.00	1.6	20	96.5	X430053 - X4G0325-01	
EPA 200.7	Iron	mg/L	9.53	9.66	10.0	1.3	20	95.3	X430053 - X4G0325-01	
EPA 200.7	Lead	mg/L	0.917	0.931	1.00	1.6	20	91.7	X430053 - X4G0325-01	
EPA 200.7	Lithium	mg/L	0.915	0.932	1.00	1.8	20	91.5	X430053 - X4G0325-01	
EPA 200.7	Magnesium	mg/L	39.9	39.2	20.0	1.8	20	99.1	X430053 - X4G0325-01	
EPA 200.7	Manganese	mg/L	0.941	0.961	1.00	2.1	20	93.5	X430053 - X4G0325-01	
EPA 200.7	Molybdenum	mg/L	1.51	1.53	1.00	1.4	20	96.4	X430053 - X4G0325-01	
EPA 200.7	Nickel	mg/L	0.922	0.935	1.00	1.4	20	92.2	X430053 - X4G0325-01	
EPA 200.7	Potassium	mg/L	23.8	23.8	20.0	0.1	20	97.6	X430053 - X4G0325-01	
EPA 200.7	Silver	mg/L	0.0411	0.0416	0.0500	1.2	20	82.2	X430053 - X4G0325-01	
EPA 200.7	Sodium	mg/L	71.7	71.7	19.0	0.1	20	92.4	X430053 - X4G0325-01	
EPA 200.7	Vanadium	mg/L	0.974	0.999	1.00	2.5	20	97.4	X430053 - X4G0325-01	
EPA 200.7	Zinc	mg/L	0.959	0.971	1.00	1.3	20	95.9	X430053 - X4G0325-01	
EPA 200.8	Antimony	mg/L	0.0242	0.0230	0.0250	5.1	20	96.7	X429204 - X4G0194-01	
EPA 200.8	Arsenic	mg/L	0.0245	0.0238	0.0250	2.8	20	96.4	X429204 - X4G0194-01	
EPA 200.8	Cadmium	mg/L	0.0235	0.0225	0.0250	4.1	20	93.8	X429204 - X4G0194-01	
EPA 200.8	Chromium	mg/L	0.0241	0.0234	0.0250	2.8	20	96.4	X429204 - X4G0194-01	
EPA 200.8	Copper	mg/L	0.0241	0.0236	0.0250	2.1	20	96.5	X429204 - X4G0194-01	
EPA 200.8	Lead	mg/L	0.0241	0.0228	0.0250	5.8	20	96.5	X429204 - X4G0194-01	
EPA 200.8	Selenium	mg/L	0.0244	0.0224	0.0250	8.3	20	97.5	X429204 - X4G0194-01	
EPA 200.8	Silver	mg/L	0.0242	0.0233	0.0250	3.7	20	96.7	X429204 - X4G0194-01	
EPA 200.8	Thallium	mg/L	0.0243	0.0229	0.0250	6.1	20	97.2	X429204 - X4G0194-01	
EPA 200.8	Uranium	mg/L	0.0239	0.0231	0.0250	3.3	20	95.4	X429204 - X4G0194-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00206	0.00211	0.00200	2.4	20	103	X429236 - X4G0253-04	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0990	0.105	0.100	5.9	11	99.0	X430067 - X4G0246-01	
EPA 335.4	Cyanide (total)	mg/L	0.0415	0.0400	0.100	3.7	20	41.5	X430014 - X4G0238-01	M2
EPA 350.1	Ammonia as N	mg/L	1.02	0.986	1.00	3.1	20	99.6	X429168 - X4G0253-03	
EPA 351.2	TKN	mg/L	7.89	6.02	8.00	26.8	20	93.9	X430034 - X4G0250-01	B10,R2B
OIA 1677	Cyanide (WAD)	mg/L	0.0950	0.0890	0.100	6.5	11	95.0	X430078 - X4G0192-02	
SM 4500 S D	Sulfide	mg/L	0.242	0.240	0.200	0.8	20	121	X429199 - X4G0246-01	
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0221	0.0204	0.0200	8.2	20	111	X429124 - X4G0181-03	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	11.0	11.0	3.00	0.1	20	109	X429134 - X4G0253-03	
EPA 300.0	Fluoride	mg/L	2.59	2.58	2.00	0.2	20	99.9	X429134 - X4G0253-03	
EPA 300.0	Nitrate as N	mg/L	2.21	2.20	2.00	0.7	20	104	X429134 - X4G0253-03	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.34	4.31	4.00	0.7	20	105	X429134 - X4G0253-03	
EPA 300.0	Nitrite as N	mg/L	2.13	2.11	2.00	0.7	20	106	X429134 - X4G0253-03	
EPA 300.0	Sulfate as SO4	mg/L	75.0	76.1	10.0	1.5	20	103	X429134 - X4G0253-03	

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4G0253**
Victor, CO 80860	Reported: 30-Jul-24 11:04

Notes and Definitions

B10	Target analyte detected in method blank above laboratory acceptance limit but below reporting limit.
D1	Sample required dilution due to matrix.
D14	Due to precipitates evident in sample/digestate, a sample dilution was performed.
E11	Sample exceeds method-specified limit for solids content.
H1	Sample analysis performed past holding time.
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.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
N1	See case narrative.
Q12	Sample was received and analyzed with pH <12.
Q20	Sample tested positive for oxidizers and was treated with sodium thiosulfate. Oxidizers are to be treated at collection before preservation.
R2B	RPD exceeded the laboratory acceptance limit.
U	Indicates the analyte was analyzed for but was not detected, result was less than the MDL.
V9	CCV recovery was below method acceptance limits.
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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Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0290**
Reported: 01-Aug-24 16:11

Client Sample ID: **AG-2.0**
SVL Sample ID: **X4G0290-06 (Surface Water)**

Sampled: 17-Jul-24 08:50
Received: 18-Jul-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 245.1	Mercury	< 0.000093	mg/L	0.000200	0.000093		X429144	MAC	07/23/24 16:07	U
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Barium**	0.0369	mg/L	0.0020	0.0019		X430082	NMS	07/26/24 13:58	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X430082	NMS	07/26/24 13:58	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X430082	NMS	07/26/24 13:58	
EPA 200.7	**Calcium**	8.54	mg/L	0.100	0.069		X430082	NMS	07/26/24 13:58	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X430082	NMS	07/26/24 13:58	
EPA 200.7	**Iron**	1.20	mg/L	0.100	0.056		X430082	NMS	07/26/24 13:58	
EPA 200.7	**Magnesium**	1.66	mg/L	0.500	0.090		X430082	NMS	07/26/24 13:58	
EPA 200.7	**Manganese**	0.122	mg/L	0.0080	0.0034		X430082	NMS	07/26/24 13:58	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X430082	NMS	07/26/24 13:58	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X430082	NMS	07/26/24 13:58	
EPA 200.7	Phosphorus	< 0.050	mg/L	0.050	0.013		X430082	NMS	07/26/24 13:58	
EPA 200.7	**Potassium**	1.37	mg/L	0.50	0.18		X430082	NMS	07/26/24 13:58	
EPA 200.7	**Sodium**	3.99	mg/L	0.50	0.12		X430082	NMS	07/26/24 13:58	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X430082	NMS	07/26/24 13:58	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X430088	SMU	07/25/24 16:59	
EPA 200.8	**Arsenic**	0.00110	mg/L	0.00100	0.00021		X430088	SMU	07/25/24 16:59	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X430088	SMU	07/25/24 16:59	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X430088	SMU	07/25/24 16:59	
EPA 200.8	**Copper**	0.00141	mg/L	0.00040	0.00036		X430088	SMU	07/25/24 16:59	
EPA 200.8	**Lead**	0.00135	mg/L	0.00020	0.00014		X430088	SMU	07/25/24 16:59	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X430088	SMU	07/25/24 16:59	
SM 2340 B	**Hardness (as CaC03)**	27.3	mg/L	2.31	0.543		N/A		07/23/24 11:43	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X430053	NMS	07/23/24 11:43	
EPA 200.7	**Barium**	0.0212	mg/L	0.0020	0.0019		X430053	NMS	07/23/24 11:43	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X430053	NMS	07/23/24 11:43	
EPA 200.7	**Calcium**	8.20	mg/L	0.100	0.069		X430053	NMS	07/23/24 11:43	
EPA 200.7	**Iron**	0.126	mg/L	0.100	0.056		X430053	NMS	07/23/24 11:43	
EPA 200.7	**Magnesium**	1.46	mg/L	0.500	0.090		X430053	NMS	07/23/24 11:43	
EPA 200.7	**Manganese**	0.0082	mg/L	0.0080	0.0034		X430053	NMS	07/23/24 11:43	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X430053	NMS	07/23/24 11:43	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X430053	NMS	07/23/24 11:43	
EPA 200.7	**Potassium**	1.05	mg/L	0.50	0.18		X430053	NMS	07/23/24 11:43	
EPA 200.7	**Sodium**	3.88	mg/L	0.50	0.12		X430053	NMS	07/23/24 11:43	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X430053	NMS	07/23/24 11:43	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X429205	SMU	07/23/24 16:34	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X429205	SMU	07/23/24 16:34	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X429205	SMU	07/23/24 16:34	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X429205	SMU	07/23/24 16:34	
EPA 200.8	Copper	< 0.00040	mg/L	0.00040	0.00036		X429205	SMU	07/23/24 16:34	
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X429205	SMU	07/23/24 16:34	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X429205	SMU	07/23/24 16:34	
EPA 200.8	Silver	< 0.00008	mg/L	0.00008	0.000061		X429205	SMU	07/23/24 16:34	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X429205	SMU	07/23/24 16:34	
EPA 200.8	**Uranium**	0.000127	mg/L	0.000100	0.000052		X429205	SMU	07/23/24 16:34	

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

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Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0290**
Reported: 01-Aug-24 16:11

Client Sample ID: **AG-2.0**
SVL Sample ID: **X4G0290-06 (Surface Water)**

Sampled: 17-Jul-24 08:50
Received: 18-Jul-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X429236	MAC	07/29/24 17:13	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X430068	DD	07/25/24 12:13	
Calculation	Chromium(III)	< 0.0110	mg/L	0.0110	0.00390		N/A		07/26/24 13:58	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X430014	DD	07/23/24 17:07	
EPA 350.1	**Ammonia as N**	0.149	mg/L	0.030	0.013		X430056	DD	07/24/24 13:35	
EPA 351.2	TKN	< 0.50	mg/L	0.50	0.31		X430034	DD	07/25/24 14:49	B10
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X430078	DD	07/23/24 16:53	
SM 2310 B	**Acidity to pH 8.3**	-20.3	mg/L as CaCO3	10.0			X430171	MWD	07/26/24 11:22	
SM 2320 B	**Total Alkalinity**	15.4	mg/L as CaCO3	1.0			X430051	MWD	07/23/24 12:54	
SM 2320 B	**Bicarbonate**	15.4	mg/L as CaCO3	1.0			X430051	MWD	07/23/24 12:54	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X430051	MWD	07/23/24 12:54	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X430051	MWD	07/23/24 12:54	
SM 2540 C	**Total Diss. Solids**	37	mg/L	10			X429195	TJL	07/22/24 12:50	
SM 2540 D	**Total Susp. Solids**	17.0	mg/L	5.0			X429196	TJL	07/22/24 14:00	
SM 4500 H B	**pH @22.9°C**	7.2	pH Units				X430051	MWD	07/23/24 12:54	H5
SM 4500 S D	Sulfide	< 0.050	mg/L	0.050	0.020		X429199	MCM	07/22/24 16:29	
SM 4500-O-G	**Dissolved Oxygen**	5.7	mg/L	0.1			X429115	TJL	07/19/24 08:00	H3,H5
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	< 0.0050	mg/L	0.0050	0.0019		X429124	MCM	07/18/24 16:30	
Filtered Classical Chemistry Parameters										
Calculation	Chromium(III)-Dissolved	< 0.00600	mg/L	0.00600	0.00207		N/A		07/23/24 16:34	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	3.94	mg/L	0.20	0.02		X429143	KAG	07/18/24 14:26	
EPA 300.0	**Fluoride**	2.61	mg/L	0.100	0.017		X429143	KAG	07/18/24 14:26	
EPA 300.0	**Nitrate as N**	0.078	mg/L	0.050	0.013		X429143	KAG	07/18/24 14:26	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X429143	KAG	07/18/24 14:26	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X429143	KAG	07/18/24 14:26	
EPA 300.0	**Sulfate as SO4**	13.7	mg/L	0.30	0.18		X429143	KAG	07/18/24 14:26	

Cation/Anion Balance and TDS Ratios

Cation Sum: 0.75 meq/L Anion Sum: 0.84 meq/L C/A Balance: -6.15 % Calculated TDS: 45 TDS/cTDS: 0.83

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0290**
Reported: 01-Aug-24 16:11

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total)								
EPA 245.1	Mercury	mg/L	<0.000093	0.000093	0.000200	X429144	23-Jul-24	U
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X430082	26-Jul-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X430082	26-Jul-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X430082	26-Jul-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X430082	26-Jul-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X430082	26-Jul-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X430082	26-Jul-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X430082	26-Jul-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X430082	26-Jul-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X430082	26-Jul-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X430082	26-Jul-24	
EPA 200.7	Phosphorus	mg/L	<0.050	0.013	0.050	X430082	26-Jul-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X430082	26-Jul-24	
EPA 200.7	Sodium	mg/L	0.12	0.12	0.50	X430082	26-Jul-24	J
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X430082	26-Jul-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X430088	25-Jul-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X430088	25-Jul-24	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X430088	25-Jul-24	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X430088	25-Jul-24	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X430088	25-Jul-24	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X430088	25-Jul-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X430088	25-Jul-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X430053	23-Jul-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X430053	23-Jul-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X430053	23-Jul-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X430053	23-Jul-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X430053	23-Jul-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X430053	23-Jul-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X430053	23-Jul-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X430053	23-Jul-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X430053	23-Jul-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X430053	23-Jul-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X430053	23-Jul-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X430053	23-Jul-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X430053	23-Jul-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X430053	23-Jul-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X430053	23-Jul-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X430053	23-Jul-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X430053	23-Jul-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X430053	23-Jul-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X430053	23-Jul-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X430053	23-Jul-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X430053	23-Jul-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X429205	23-Jul-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X429205	23-Jul-24	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X429205	23-Jul-24	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X429205	23-Jul-24	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X429205	23-Jul-24	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X429205	23-Jul-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X429205	23-Jul-24	
EPA 200.8	Silver	mg/L	<0.00008	0.000061	0.00008	X429205	23-Jul-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X429205	23-Jul-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X429205	23-Jul-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0290**
Reported: 01-Aug-24 16:11

Quality Control - BLANK Data (Continued)

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X429236	29-Jul-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X430068	25-Jul-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X430014	23-Jul-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X430056	24-Jul-24	
EPA 351.2	TKN	mg/L	<0.50	0.31	0.50	X430034	25-Jul-24	B10
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X430078	23-Jul-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X430171	26-Jul-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X430051	23-Jul-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X430051	23-Jul-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X430051	23-Jul-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X430051	23-Jul-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X429195	22-Jul-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X431115	01-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X429196	22-Jul-24	
SM 4500 S D	Sulfide	mg/L	<0.050	0.020	0.050	X429199	22-Jul-24	
Dissolved Classical Chemistry Parameters								
SM 3500 Cr B	Hexavalent Chromium	mg/L	<0.0050	0.0019	0.0050	X429124	18-Jul-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X429143	18-Jul-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X429143	18-Jul-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X429143	18-Jul-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X429143	18-Jul-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X429143	18-Jul-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X429143	18-Jul-24	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)									
EPA 245.1	Mercury	mg/L	0.00228	0.00200	114	85 - 115	X429144	23-Jul-24	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Barium	mg/L	1.00	1.00	100	85 - 115	X430082	26-Jul-24	
EPA 200.7	Beryllium	mg/L	0.971	1.00	97.1	85 - 115	X430082	26-Jul-24	
EPA 200.7	Boron	mg/L	0.991	1.00	99.1	85 - 115	X430082	26-Jul-24	
EPA 200.7	Calcium	mg/L	19.4	20.0	97	85 - 115	X430082	26-Jul-24	
EPA 200.7	Chromium	mg/L	0.990	1.00	99.0	85 - 115	X430082	26-Jul-24	
EPA 200.7	Iron	mg/L	9.86	10.0	98.6	85 - 115	X430082	26-Jul-24	
EPA 200.7	Magnesium	mg/L	20.2	20.0	101	85 - 115	X430082	26-Jul-24	
EPA 200.7	Manganese	mg/L	0.972	1.00	97.2	85 - 115	X430082	26-Jul-24	
EPA 200.7	Molybdenum	mg/L	0.993	1.00	99.3	85 - 115	X430082	26-Jul-24	
EPA 200.7	Nickel	mg/L	0.942	1.00	94.2	85 - 115	X430082	26-Jul-24	
EPA 200.7	Phosphorus	mg/L	1.02	1.00	102	85 - 115	X430082	26-Jul-24	
EPA 200.7	Potassium	mg/L	19.8	20.0	99.2	85 - 115	X430082	26-Jul-24	
EPA 200.7	Sodium	mg/L	18.6	19.0	98.1	85 - 115	X430082	26-Jul-24	
EPA 200.7	Zinc	mg/L	0.960	1.00	96.0	85 - 115	X430082	26-Jul-24	
EPA 200.8	Antimony	mg/L	0.0242	0.0250	96.8	85 - 115	X430088	25-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0237	0.0250	95.0	85 - 115	X430088	25-Jul-24	
EPA 200.8	Cadmium	mg/L	0.0233	0.0250	93.2	85 - 115	X430088	25-Jul-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0290**
Reported: 01-Aug-24 16:11

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 200.8	Chromium	mg/L	0.0239	0.0250	95.4	85 - 115	X430088	25-Jul-24	
EPA 200.8	Copper	mg/L	0.0244	0.0250	97.6	85 - 115	X430088	25-Jul-24	
EPA 200.8	Lead	mg/L	0.0235	0.0250	93.8	85 - 115	X430088	25-Jul-24	
EPA 200.8	Selenium	mg/L	0.0243	0.0250	97.4	85 - 115	X430088	25-Jul-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.993	1.00	99.3	85 - 115	X430053	23-Jul-24	
EPA 200.7	Barium	mg/L	1.01	1.00	101	85 - 115	X430053	23-Jul-24	
EPA 200.7	Beryllium	mg/L	1.04	1.00	104	85 - 115	X430053	23-Jul-24	
EPA 200.7	Boron	mg/L	1.03	1.00	103	85 - 115	X430053	23-Jul-24	
EPA 200.7	Cadmium	mg/L	1.01	1.00	101	85 - 115	X430053	23-Jul-24	
EPA 200.7	Calcium	mg/L	19.9	20.0	99.7	85 - 115	X430053	23-Jul-24	
EPA 200.7	Chromium	mg/L	1.03	1.00	103	85 - 115	X430053	23-Jul-24	
EPA 200.7	Cobalt	mg/L	0.996	1.00	99.6	85 - 115	X430053	23-Jul-24	
EPA 200.7	Copper	mg/L	1.03	1.00	103	85 - 115	X430053	23-Jul-24	
EPA 200.7	Iron	mg/L	10.1	10.0	101	85 - 115	X430053	23-Jul-24	
EPA 200.7	Lead	mg/L	0.995	1.00	99.5	85 - 115	X430053	23-Jul-24	
EPA 200.7	Lithium	mg/L	0.982	1.00	98.2	85 - 115	X430053	23-Jul-24	
EPA 200.7	Magnesium	mg/L	20.0	20.0	100	85 - 115	X430053	23-Jul-24	
EPA 200.7	Manganese	mg/L	1.01	1.00	101	85 - 115	X430053	23-Jul-24	
EPA 200.7	Molybdenum	mg/L	1.03	1.00	103	85 - 115	X430053	23-Jul-24	
EPA 200.7	Nickel	mg/L	0.996	1.00	99.6	85 - 115	X430053	23-Jul-24	
EPA 200.7	Potassium	mg/L	20.3	20.0	102	85 - 115	X430053	23-Jul-24	
EPA 200.7	Silver	mg/L	0.0491	0.0500	98.2	85 - 115	X430053	23-Jul-24	
EPA 200.7	Sodium	mg/L	19.1	19.0	100	85 - 115	X430053	23-Jul-24	
EPA 200.7	Vanadium	mg/L	1.03	1.00	103	85 - 115	X430053	23-Jul-24	
EPA 200.7	Zinc	mg/L	1.02	1.00	102	85 - 115	X430053	23-Jul-24	
EPA 200.8	Antimony	mg/L	0.0236	0.0250	94.6	85 - 115	X429205	23-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0242	0.0250	96.7	85 - 115	X429205	23-Jul-24	
EPA 200.8	Cadmium	mg/L	0.0233	0.0250	93.2	85 - 115	X429205	23-Jul-24	
EPA 200.8	Chromium	mg/L	0.0237	0.0250	94.7	85 - 115	X429205	23-Jul-24	
EPA 200.8	Copper	mg/L	0.0236	0.0250	94.3	85 - 115	X429205	23-Jul-24	
EPA 200.8	Lead	mg/L	0.0237	0.0250	95.0	85 - 115	X429205	23-Jul-24	
EPA 200.8	Selenium	mg/L	0.0240	0.0250	96.2	85 - 115	X429205	23-Jul-24	
EPA 200.8	Silver	mg/L	0.0246	0.0250	98.4	85 - 115	X429205	23-Jul-24	
EPA 200.8	Thallium	mg/L	0.0235	0.0250	94.2	85 - 115	X429205	23-Jul-24	
EPA 200.8	Uranium	mg/L	0.0236	0.0250	94.4	85 - 115	X429205	23-Jul-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00209	0.00200	104	85 - 115	X429236	29-Jul-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.107	0.100	107	90 - 110	X430068	25-Jul-24	
EPA 335.4	Cyanide (total)	mg/L	0.0990	0.100	99.0	90 - 110	X430014	23-Jul-24	
EPA 350.1	Ammonia as N	mg/L	1.02	1.00	102	90 - 110	X430056	24-Jul-24	
EPA 351.2	TKN	mg/L	7.64	8.00	95.5	90 - 110	X430034	25-Jul-24	B10
OIA 1677	Cyanide (WAD)	mg/L	0.106	0.100	106	90 - 110	X430078	23-Jul-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	873	884	98.7	95.4 - 104	X430171	26-Jul-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.1	9.93	102	96.4 - 105	X430051	23-Jul-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	102	99.3	102	96.4 - 105	X430051	23-Jul-24	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X429196	22-Jul-24	
SM 4500 S D	Sulfide	mg/L	0.479	0.500	95.8	85 - 115	X429199	22-Jul-24	
Dissolved Classical Chemistry Parameters									
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.102	0.100	102	80 - 120	X429124	18-Jul-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0290**
Reported: 01-Aug-24 16:11

Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.09	3.00	103	90 - 110	X429143	18-Jul-24	
EPA 300.0	Fluoride	mg/L	2.05	2.00	102	90 - 110	X429143	18-Jul-24	
EPA 300.0	Nitrate as N	mg/L	2.09	2.00	104	90 - 110	X429143	18-Jul-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.67	4.50	104	90 - 110	X429143	18-Jul-24	
EPA 300.0	Nitrite as N	mg/L	2.58	2.50	103	90 - 110	X429143	18-Jul-24	
EPA 300.0	Sulfate as SO4	mg/L	10.5	10.0	105	90 - 110	X429143	18-Jul-24	

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0	<10.0	UDL	20	X430171 - X4G0254-01	26-Jul-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	41.7	41.6	0.2	20	X430051 - X4G0290-03	23-Jul-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	41.7	41.6	0.2	20	X430051 - X4G0290-03	23-Jul-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X430051 - X4G0290-03	23-Jul-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X430051 - X4G0290-03	23-Jul-24	
SM 2540 C	Total Diss. Solids	mg/L	166	163	1.8	10	X431115 - X4G0457-02	01-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	175	176	0.6	10	X429195 - X4G0290-04	22-Jul-24	
SM 2540 C	Total Diss. Solids	mg/L	379	389	2.6	10	X431115 - X4G0457-08	01-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	692	709	2.4	10	X429195 - X4G0293-04	22-Jul-24	
SM 2540 D	Total Susp. Solids	mg/L	12.0	11.0	8.7	10	X429196 - X4G0293-04	22-Jul-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	7.0	25.0	10	X429196 - X4G0290-04	22-Jul-24	R2B
SM 4500 H B	pH @22.4°C	pH Units	6.9	6.8	0.9	20	X430051 - X4G0290-03	23-Jul-24	
SM 4500-O-G	Dissolved Oxygen	mg/L	6.0	6.0	0.0	20	X429115 - X4G0246-01	19-Jul-24	
SM 4500-O-G	Dissolved Oxygen	mg/L	7.0	7.1	1.4	20	X429115 - X4G0292-01	19-Jul-24	

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 245.1	Mercury	mg/L	0.00333	0.00105	0.00200	114	70 - 130	X429144 - X4G0238-02	23-Jul-24	
EPA 245.1	Mercury	mg/L	0.00221	<0.000093	0.00200	111	70 - 130	X429144 - X4G0290-06	23-Jul-24	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	1.07	0.0475	1.00	103	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Barium	mg/L	1.03	0.0056	1.00	102	70 - 130	X430082 - X4G0320-04	26-Jul-24	
EPA 200.7	Beryllium	mg/L	0.970	<0.00200	1.00	97.0	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Beryllium	mg/L	1.01	<0.00200	1.00	101	70 - 130	X430082 - X4G0320-04	26-Jul-24	
EPA 200.7	Boron	mg/L	1.04	<0.0400	1.00	102	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Boron	mg/L	1.07	<0.0400	1.00	103	70 - 130	X430082 - X4G0320-04	26-Jul-24	
EPA 200.7	Calcium	mg/L	33.0	12.7	20.0	102	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Calcium	mg/L	183	158	20.0	124	70 - 130	X430082 - X4G0320-04	26-Jul-24	
EPA 200.7	Chromium	mg/L	0.999	<0.0060	1.00	99.9	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Chromium	mg/L	1.07	0.0614	1.00	101	70 - 130	X430082 - X4G0320-04	26-Jul-24	
EPA 200.7	Iron	mg/L	11.0	1.02	10.0	100	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Iron	mg/L	267	257	10.0	104	70 - 130	X430082 - X4G0320-04	26-Jul-24	
EPA 200.7	Magnesium	mg/L	23.5	2.58	20.0	104	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Magnesium	mg/L	46.4	24.7	20.0	108	70 - 130	X430082 - X4G0320-04	26-Jul-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0290**
Reported: 01-Aug-24 16:11

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136) (Continued)										
EPA 200.7	Manganese	mg/L	0.986	0.0094	1.00	97.7	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Manganese	mg/L	8.63	7.60	1.00	104	70 - 130	X430082 - X4G0320-04	26-Jul-24	
EPA 200.7	Molybdenum	mg/L	1.03	0.0187	1.00	101	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Molybdenum	mg/L	1.01	<0.0080	1.00	101	70 - 130	X430082 - X4G0320-04	26-Jul-24	
EPA 200.7	Nickel	mg/L	0.958	<0.0100	1.00	95.8	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Nickel	mg/L	2.19	1.21	1.00	97.9	70 - 130	X430082 - X4G0320-04	26-Jul-24	
EPA 200.7	Phosphorus	mg/L	1.10	0.065	1.00	103	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Phosphorus	mg/L	5.20	4.13	1.00	107	70 - 130	X430082 - X4G0320-04	26-Jul-24	
EPA 200.7	Potassium	mg/L	22.7	2.42	20.0	101	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Potassium	mg/L	21.3	<0.50	20.0	107	70 - 130	X430082 - X4G0320-04	26-Jul-24	
EPA 200.7	Sodium	mg/L	24.8	5.72	19.0	100	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Sodium	mg/L	21.8	1.70	19.0	106	70 - 130	X430082 - X4G0320-04	26-Jul-24	
EPA 200.7	Zinc	mg/L	0.980	<0.0100	1.00	97.4	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Zinc	mg/L	9.46	8.29	1.00	117	70 - 130	X430082 - X4G0320-04	26-Jul-24	
EPA 200.8	Antimony	mg/L	0.0242	<0.00100	0.0250	96.7	70 - 130	X430088 - X4G0313-01	25-Jul-24	
EPA 200.8	Antimony	mg/L	0.0250	<0.00100	0.0250	99.9	70 - 130	X430088 - X4G0314-05	25-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0238	<0.00100	0.0250	93.2	70 - 130	X430088 - X4G0313-01	25-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0366	0.0129	0.0250	94.7	70 - 130	X430088 - X4G0314-05	25-Jul-24	
EPA 200.8	Cadmium	mg/L	0.0236	0.000226	0.0250	93.4	70 - 130	X430088 - X4G0313-01	25-Jul-24	
EPA 200.8	Cadmium	mg/L	0.0236	<0.000100	0.0250	94.5	70 - 130	X430088 - X4G0314-05	25-Jul-24	
EPA 200.8	Chromium	mg/L	0.0225	<0.00100	0.0250	90.0	70 - 130	X430088 - X4G0313-01	25-Jul-24	
EPA 200.8	Chromium	mg/L	0.0232	<0.00100	0.0250	90.0	70 - 130	X430088 - X4G0314-05	25-Jul-24	
EPA 200.8	Copper	mg/L	0.0228	0.00044	0.0250	89.5	70 - 130	X430088 - X4G0313-01	25-Jul-24	
EPA 200.8	Copper	mg/L	0.0222	<0.00040	0.0250	88.7	70 - 130	X430088 - X4G0314-05	25-Jul-24	
EPA 200.8	Lead	mg/L	0.0231	<0.00020	0.0250	92.3	70 - 130	X430088 - X4G0313-01	25-Jul-24	
EPA 200.8	Lead	mg/L	0.0221	<0.00020	0.0250	88.4	70 - 130	X430088 - X4G0314-05	25-Jul-24	
EPA 200.8	Selenium	mg/L	0.0245	<0.00100	0.0250	98.0	70 - 130	X430088 - X4G0313-01	25-Jul-24	
EPA 200.8	Selenium	mg/L	0.0294	0.00522	0.0250	96.5	70 - 130	X430088 - X4G0314-05	25-Jul-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.939	<0.080	1.00	93.9	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Aluminum	mg/L	4.99	4.08	1.00	91.1	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Barium	mg/L	1.03	0.0475	1.00	98.1	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Barium	mg/L	0.993	0.0139	1.00	97.9	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Beryllium	mg/L	0.985	<0.00200	1.00	98.5	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Beryllium	mg/L	0.980	0.0145	1.00	96.5	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Boron	mg/L	1.05	<0.0400	1.00	102	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Boron	mg/L	1.05	0.0480	1.00	100	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Cadmium	mg/L	0.946	<0.0020	1.00	94.6	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Cadmium	mg/L	0.921	<0.0020	1.00	92.1	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Calcium	mg/L	187	169	20.0	90.7	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Calcium	mg/L	566	551	20.0	78.6	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Chromium	mg/L	0.980	<0.0060	1.00	98.0	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Chromium	mg/L	0.966	<0.0060	1.00	96.6	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Cobalt	mg/L	0.936	<0.0060	1.00	93.6	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Cobalt	mg/L	0.966	0.0393	1.00	92.7	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Copper	mg/L	0.990	<0.0100	1.00	98.1	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Copper	mg/L	1.28	0.269	1.00	101	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Iron	mg/L	9.66	<0.100	10.0	96.6	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Iron	mg/L	9.67	<0.100	10.0	96.7	70 - 130	X430053 - X4G0325-02	23-Jul-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0290**
Reported: 01-Aug-24 16:11

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Lead	mg/L	0.931	<0.0075	1.00	93.1	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Lead	mg/L	0.913	<0.0075	1.00	91.3	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Lithium	mg/L	0.932	<0.040	1.00	93.2	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Lithium	mg/L	0.907	<0.040	1.00	90.7	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Magnesium	mg/L	39.2	20.1	20.0	95.6	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Magnesium	mg/L	162	140	20.0	109	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Manganese	mg/L	0.961	<0.0080	1.00	95.4	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Manganese	mg/L	13.8	13.0	1.00	83.9	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Molybdenum	mg/L	1.53	0.543	1.00	98.5	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Molybdenum	mg/L	0.981	<0.0080	1.00	97.6	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Nickel	mg/L	0.935	<0.0100	1.00	93.5	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Nickel	mg/L	1.04	0.106	1.00	93.0	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Potassium	mg/L	23.8	4.30	20.0	97.7	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Potassium	mg/L	27.1	6.75	20.0	102	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Silver	mg/L	0.0416	<0.0050	0.0500	83.2	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Silver	mg/L	0.0395	<0.0050	0.0500	78.9	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Sodium	mg/L	71.7	54.2	19.0	92.2	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Sodium	mg/L	99.2	81.1	19.0	95.3	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Vanadium	mg/L	0.999	<0.0050	1.00	99.9	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Vanadium	mg/L	0.997	<0.0050	1.00	99.5	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Zinc	mg/L	0.971	<0.0100	1.00	97.1	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Zinc	mg/L	1.21	0.258	1.00	95.3	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.8	Antimony	mg/L	0.0256	<0.00100	0.0250	103	70 - 130	X429205 - X4G0192-02	23-Jul-24	
EPA 200.8	Antimony	mg/L	0.0249	<0.00100	0.0250	99.7	70 - 130	X429205 - X4G0290-04	23-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0245	<0.00100	0.0250	98.1	70 - 130	X429205 - X4G0192-02	23-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0255	<0.00100	0.0250	102	70 - 130	X429205 - X4G0290-04	23-Jul-24	
EPA 200.8	Cadmium	mg/L	0.0244	0.000345	0.0250	96.4	70 - 130	X429205 - X4G0192-02	23-Jul-24	
EPA 200.8	Cadmium	mg/L	0.0244	<0.000100	0.0250	97.7	70 - 130	X429205 - X4G0290-04	23-Jul-24	
EPA 200.8	Chromium	mg/L	0.0251	0.00139	0.0250	95.0	70 - 130	X429205 - X4G0192-02	23-Jul-24	
EPA 200.8	Chromium	mg/L	0.0252	<0.00100	0.0250	101	70 - 130	X429205 - X4G0290-04	23-Jul-24	
EPA 200.8	Copper	mg/L	0.0292	0.00489	0.0250	97.2	70 - 130	X429205 - X4G0192-02	23-Jul-24	
EPA 200.8	Copper	mg/L	0.0381	0.0115	0.0250	106	70 - 130	X429205 - X4G0290-04	23-Jul-24	
EPA 200.8	Lead	mg/L	0.0237	<0.00020	0.0250	94.9	70 - 130	X429205 - X4G0192-02	23-Jul-24	
EPA 200.8	Lead	mg/L	0.0244	<0.00020	0.0250	97.6	70 - 130	X429205 - X4G0290-04	23-Jul-24	
EPA 200.8	Selenium	mg/L	0.0224	<0.00100	0.0250	89.8	70 - 130	X429205 - X4G0192-02	23-Jul-24	
EPA 200.8	Selenium	mg/L	0.0242	<0.00100	0.0250	95.7	70 - 130	X429205 - X4G0290-04	23-Jul-24	
EPA 200.8	Silver	mg/L	0.0241	<0.00008	0.0250	96.4	70 - 130	X429205 - X4G0192-02	23-Jul-24	
EPA 200.8	Silver	mg/L	0.0245	<0.00008	0.0250	97.9	70 - 130	X429205 - X4G0290-04	23-Jul-24	
EPA 200.8	Thallium	mg/L	0.0226	<0.000200	0.0250	90.3	70 - 130	X429205 - X4G0192-02	23-Jul-24	
EPA 200.8	Thallium	mg/L	0.0217	<0.000200	0.0250	86.9	70 - 130	X429205 - X4G0290-04	23-Jul-24	
EPA 200.8	Uranium	mg/L	0.0308	0.00596	0.0250	99.3	70 - 130	X429205 - X4G0192-02	23-Jul-24	
EPA 200.8	Uranium	mg/L	0.0298	0.00494	0.0250	99.5	70 - 130	X429205 - X4G0290-04	23-Jul-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00211	<0.000200	0.00200	106	70 - 130	X429236 - X4G0253-04	29-Jul-24	
EPA 245.1	Mercury	mg/L	0.00214	<0.000200	0.00200	107	70 - 130	X429236 - X4G0290-05	29-Jul-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.118	<0.0050	0.100	118	79 - 121	X430068 - X4G0290-01	25-Jul-24	R4
EPA 335.4	Cyanide (total)	mg/L	0.0400	<0.0050	0.100	40.0	90 - 110	X430014 - X4G0238-01	23-Jul-24	M2

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0290**
Reported: 01-Aug-24 16:11

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters (Continued)										
EPA 335.4	Cyanide (total)	mg/L	0.0823	0.0057	0.100	76.6	90 - 110	X430014 - X4G0238-02	23-Jul-24	M2
EPA 350.1	Ammonia as N	mg/L	1.09	0.077	1.00	101	90 - 110	X430056 - X4G0290-01	24-Jul-24	
EPA 350.1	Ammonia as N	mg/L	1.08	0.035	1.00	104	90 - 110	X430056 - X4G0290-02	24-Jul-24	
EPA 351.2	TKN	mg/L	6.02	<0.50	8.00	70.6	90 - 110	X430034 - X4G0250-01	25-Jul-24	B10,M2,R2B
EPA 351.2	TKN	mg/L	8.03	0.81	8.00	90.3	90 - 110	X430034 - X4G0250-02	25-Jul-24	B10
OIA 1677	Cyanide (WAD)	mg/L	0.0890	<0.0050	0.100	89.0	82 - 118	X430078 - X4G0192-02	23-Jul-24	
SM 4500 S D	Sulfide	mg/L	0.240	<0.050	0.200	120	75 - 125	X429199 - X4G0246-01	22-Jul-24	
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0204	<0.0050	0.0200	102	75 - 125	X429124 - X4G0181-03	18-Jul-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	8.87	5.77	3.00	104	90 - 110	X429143 - X4G0290-03	18-Jul-24	
EPA 300.0	Chloride	mg/L	30.7	27.5	3.00	106	90 - 110	X429143 - X4G0262-01	18-Jul-24	M2
EPA 300.0	Fluoride	mg/L	5.86	3.52	2.00	117	90 - 110	X429143 - X4G0290-03	18-Jul-24	M1
EPA 300.0	Fluoride	mg/L	2.72	0.314	2.00	120	90 - 110	X429143 - X4G0262-01	18-Jul-24	M1
EPA 300.0	Nitrate as N	mg/L	2.16	0.102	2.00	103	90 - 110	X429143 - X4G0290-03	18-Jul-24	
EPA 300.0	Nitrate as N	mg/L	2.09	<0.050	2.00	103	90 - 110	X429143 - X4G0262-01	18-Jul-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.20	0.102	4.00	102	90 - 110	X429143 - X4G0290-03	18-Jul-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.11	<0.100	4.00	103	90 - 110	X429143 - X4G0262-01	18-Jul-24	
EPA 300.0	Nitrite as N	mg/L	2.04	<0.050	2.00	102	90 - 110	X429143 - X4G0290-03	18-Jul-24	
EPA 300.0	Nitrite as N	mg/L	2.02	<0.050	2.00	101	90 - 110	X429143 - X4G0262-01	18-Jul-24	
EPA 300.0	Sulfate as SO4	mg/L	43.8	33.0	10.0	108	90 - 110	X429143 - X4G0290-03	18-Jul-24	
EPA 300.0	Sulfate as SO4	mg/L	361	351	10.0	101	90 - 110	X429143 - X4G0262-01	18-Jul-24	

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 245.1	Mercury	mg/L	0.00332	0.00333	0.00200	0.3	20	113	X429144 - X4G0238-02	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	1.04	1.07	1.00	2.9	20	99.6	X430082 - X4G0290-05	
EPA 200.7	Beryllium	mg/L	0.983	0.970	1.00	1.3	20	98.3	X430082 - X4G0290-05	
EPA 200.7	Boron	mg/L	1.03	1.04	1.00	0.3	20	102	X430082 - X4G0290-05	
EPA 200.7	Calcium	mg/L	32.8	33.0	20.0	0.8	20	100	X430082 - X4G0290-05	
EPA 200.7	Chromium	mg/L	0.996	0.999	1.00	0.3	20	99.6	X430082 - X4G0290-05	
EPA 200.7	Iron	mg/L	10.9	11.0	10.0	1.2	20	98.7	X430082 - X4G0290-05	
EPA 200.7	Magnesium	mg/L	22.8	23.5	20.0	3.0	20	101	X430082 - X4G0290-05	
EPA 200.7	Manganese	mg/L	0.985	0.986	1.00	0.1	20	97.5	X430082 - X4G0290-05	
EPA 200.7	Molybdenum	mg/L	1.02	1.03	1.00	0.5	20	100	X430082 - X4G0290-05	
EPA 200.7	Nickel	mg/L	0.953	0.958	1.00	0.5	20	95.3	X430082 - X4G0290-05	
EPA 200.7	Phosphorus	mg/L	1.09	1.10	1.00	1.0	20	102	X430082 - X4G0290-05	
EPA 200.7	Potassium	mg/L	22.5	22.7	20.0	0.4	20	101	X430082 - X4G0290-05	
EPA 200.7	Sodium	mg/L	24.5	24.8	19.0	0.9	20	99.1	X430082 - X4G0290-05	
EPA 200.7	Zinc	mg/L	0.979	0.980	1.00	0.1	20	97.3	X430082 - X4G0290-05	
EPA 200.8	Antimony	mg/L	0.0245	0.0242	0.0250	1.1	20	97.8	X430088 - X4G0313-01	
EPA 200.8	Arsenic	mg/L	0.0237	0.0238	0.0250	0.6	20	92.6	X430088 - X4G0313-01	
EPA 200.8	Cadmium	mg/L	0.0242	0.0236	0.0250	2.7	20	95.9	X430088 - X4G0313-01	
EPA 200.8	Chromium	mg/L	0.0229	0.0225	0.0250	1.9	20	91.6	X430088 - X4G0313-01	
EPA 200.8	Copper	mg/L	0.0233	0.0228	0.0250	2.1	20	91.5	X430088 - X4G0313-01	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0290**
Reported: 01-Aug-24 16:11

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136) (Continued)										
EPA 200.8	Lead	mg/L	0.0231	0.0231	0.0250	0.3	20	92.5	X430088 - X4G0313-01	
EPA 200.8	Selenium	mg/L	0.0251	0.0245	0.0250	2.4	20	100	X430088 - X4G0313-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.930	0.939	1.00	1.1	20	93.0	X430053 - X4G0325-01	
EPA 200.7	Barium	mg/L	1.03	1.03	1.00	0.2	20	98.3	X430053 - X4G0325-01	
EPA 200.7	Beryllium	mg/L	0.944	0.985	1.00	4.2	20	94.4	X430053 - X4G0325-01	
EPA 200.7	Boron	mg/L	1.04	1.05	1.00	1.3	20	101	X430053 - X4G0325-01	
EPA 200.7	Cadmium	mg/L	0.929	0.946	1.00	1.8	20	92.9	X430053 - X4G0325-01	
EPA 200.7	Calcium	mg/L	188	187	20.0	0.4	20	94.9	X430053 - X4G0325-01	
EPA 200.7	Chromium	mg/L	0.957	0.980	1.00	2.5	20	95.7	X430053 - X4G0325-01	
EPA 200.7	Cobalt	mg/L	0.920	0.936	1.00	1.7	20	92.0	X430053 - X4G0325-01	
EPA 200.7	Copper	mg/L	0.974	0.990	1.00	1.6	20	96.5	X430053 - X4G0325-01	
EPA 200.7	Iron	mg/L	9.53	9.66	10.0	1.3	20	95.3	X430053 - X4G0325-01	
EPA 200.7	Lead	mg/L	0.917	0.931	1.00	1.6	20	91.7	X430053 - X4G0325-01	
EPA 200.7	Lithium	mg/L	0.915	0.932	1.00	1.8	20	91.5	X430053 - X4G0325-01	
EPA 200.7	Magnesium	mg/L	39.9	39.2	20.0	1.8	20	99.1	X430053 - X4G0325-01	
EPA 200.7	Manganese	mg/L	0.941	0.961	1.00	2.1	20	93.5	X430053 - X4G0325-01	
EPA 200.7	Molybdenum	mg/L	1.51	1.53	1.00	1.4	20	96.4	X430053 - X4G0325-01	
EPA 200.7	Nickel	mg/L	0.922	0.935	1.00	1.4	20	92.2	X430053 - X4G0325-01	
EPA 200.7	Potassium	mg/L	23.8	23.8	20.0	0.1	20	97.6	X430053 - X4G0325-01	
EPA 200.7	Silver	mg/L	0.0411	0.0416	0.0500	1.2	20	82.2	X430053 - X4G0325-01	
EPA 200.7	Sodium	mg/L	71.7	71.7	19.0	0.1	20	92.4	X430053 - X4G0325-01	
EPA 200.7	Vanadium	mg/L	0.974	0.999	1.00	2.5	20	97.4	X430053 - X4G0325-01	
EPA 200.7	Zinc	mg/L	0.959	0.971	1.00	1.3	20	95.9	X430053 - X4G0325-01	
EPA 200.8	Antimony	mg/L	0.0256	0.0256	0.0250	0.1	20	102	X429205 - X4G0192-02	
EPA 200.8	Arsenic	mg/L	0.0257	0.0245	0.0250	4.7	20	103	X429205 - X4G0192-02	
EPA 200.8	Cadmium	mg/L	0.0246	0.0244	0.0250	0.6	20	97.0	X429205 - X4G0192-02	
EPA 200.8	Chromium	mg/L	0.0263	0.0251	0.0250	4.7	20	99.8	X429205 - X4G0192-02	
EPA 200.8	Copper	mg/L	0.0300	0.0292	0.0250	2.9	20	101	X429205 - X4G0192-02	
EPA 200.8	Lead	mg/L	0.0242	0.0237	0.0250	2.1	20	96.9	X429205 - X4G0192-02	
EPA 200.8	Selenium	mg/L	0.0241	0.0224	0.0250	7.1	20	96.4	X429205 - X4G0192-02	
EPA 200.8	Silver	mg/L	0.0246	0.0241	0.0250	1.9	20	98.3	X429205 - X4G0192-02	
EPA 200.8	Thallium	mg/L	0.0230	0.0226	0.0250	2.1	20	92.1	X429205 - X4G0192-02	
EPA 200.8	Uranium	mg/L	0.0311	0.0308	0.0250	1.0	20	100	X429205 - X4G0192-02	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00206	0.00211	0.00200	2.4	20	103	X429236 - X4G0253-04	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.123	0.118	0.100	4.2	11	123	X430068 - X4G0290-01	R4
EPA 335.4	Cyanide (total)	mg/L	0.0415	0.0400	0.100	3.7	20	41.5	X430014 - X4G0238-01	M2
EPA 350.1	Ammonia as N	mg/L	1.03	1.09	1.00	5.5	20	95.5	X430056 - X4G0290-01	
EPA 351.2	TKN	mg/L	7.89	6.02	8.00	26.8	20	93.9	X430034 - X4G0250-01	B10,R2B
OIA 1677	Cyanide (WAD)	mg/L	0.0950	0.0890	0.100	6.5	11	95.0	X430078 - X4G0192-02	
SM 4500 S D	Sulfide	mg/L	0.242	0.240	0.200	0.8	20	121	X429199 - X4G0246-01	
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0221	0.0204	0.0200	8.2	20	111	X429124 - X4G0181-03	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	30.3	30.7	3.00	1.3	20	93.0	X429143 - X4G0262-01	M2
EPA 300.0	Fluoride	mg/L	2.74	2.72	2.00	0.8	20	121	X429143 - X4G0262-01	M1
EPA 300.0	Nitrate as N	mg/L	2.11	2.09	2.00	1.1	20	104	X429143 - X4G0262-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.15	4.11	4.00	1.0	20	104	X429143 - X4G0262-01	
EPA 300.0	Nitrite as N	mg/L	2.04	2.02	2.00	0.9	20	102	X429143 - X4G0262-01	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0290**
Reported: 01-Aug-24 16:11

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Anions by Ion Chromatography (Continued)										
EPA 300.0	Sulfate as SO4	mg/L	356	361	10.0	1.3	20	0.30R>S	X429143 - X4G0262-01	M2

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4G0290**
Victor, CO 80860	Reported: 01-Aug-24 16:11

Notes and Definitions

B10	Target analyte detected in method blank above laboratory acceptance limit but below reporting limit.
H1	Sample analysis performed past holding time.
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.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
R2B	RPD exceeded the laboratory acceptance limit.
R4	MS/MSD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.
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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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0233**
Reported: 05-Sep-24 15:35

Client Sample ID: **GV-06**
SVL Sample ID: **X4H0233-01 (Surface Water)**

Sampled: 13-Aug-24 11:24
Received: 14-Aug-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 1631E	**Mercury**	1.32	ng/L	0.500	0.120		X433208	MAC	08/16/24 20:19	
EPA 245.1	Mercury	< 0.000093	mg/L	0.000200	0.000093		X434033	MAC	08/27/24 15:43	U
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Barium**	0.135	mg/L	0.0020	0.0019		X434069	NMS	08/26/24 11:19	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X434069	NMS	08/26/24 11:19	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X434069	NMS	08/26/24 11:19	
EPA 200.7	**Calcium**	45.9	mg/L	0.100	0.069		X434069	NMS	08/26/24 11:19	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X434069	NMS	08/26/24 11:19	
EPA 200.7	**Iron**	2.34	mg/L	0.100	0.056		X434069	NMS	08/26/24 11:19	
EPA 200.7	**Magnesium**	11.0	mg/L	0.500	0.090		X434069	NMS	08/26/24 11:19	
EPA 200.7	**Manganese**	1.04	mg/L	0.0080	0.0034		X434069	NMS	08/26/24 11:19	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X434069	NMS	08/26/24 11:19	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X434069	NMS	08/26/24 11:19	
EPA 200.7	**Phosphorus**	0.094	mg/L	0.050	0.013		X434069	NMS	08/26/24 11:19	
EPA 200.7	**Potassium**	1.79	mg/L	0.50	0.18		X434069	NMS	08/26/24 11:19	
EPA 200.7	**Sodium**	12.6	mg/L	0.50	0.12		X434069	NMS	08/26/24 11:19	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X434069	NMS	08/26/24 11:19	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X434151	SMU	08/26/24 12:28	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X434151	SMU	08/26/24 12:28	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X434151	SMU	08/26/24 12:28	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X434151	SMU	08/26/24 12:28	
EPA 200.8	**Copper**	0.00079	mg/L	0.00040	0.00036		X434151	SMU	08/26/24 12:28	
EPA 200.8	**Lead**	0.00090	mg/L	0.00020	0.00014		X434151	SMU	08/26/24 12:28	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X434151	SMU	08/26/24 12:28	
SM 2340 B	**Hardness (as CaC03)**	173	mg/L	2.31	0.543		N/A		08/20/24 12:30	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X433215	SJN	08/20/24 12:30	
EPA 200.7	**Barium**	0.108	mg/L	0.0020	0.0019		X433215	SJN	08/20/24 12:30	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X433215	SJN	08/20/24 12:30	
EPA 200.7	**Calcium**	51.2	mg/L	0.100	0.069		X433215	SJN	08/20/24 12:30	B7
EPA 200.7	**Iron**	0.369	mg/L	0.100	0.056		X433215	SJN	08/20/24 12:30	
EPA 200.7	**Magnesium**	12.6	mg/L	0.500	0.090		X433215	SJN	08/20/24 12:30	
EPA 200.7	**Manganese**	0.366	mg/L	0.0080	0.0034		X433215	SJN	08/20/24 12:30	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X433215	SJN	08/20/24 12:30	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X433215	SJN	08/20/24 12:30	
EPA 200.7	**Potassium**	1.94	mg/L	0.50	0.18		X433215	SJN	08/20/24 12:30	
EPA 200.7	**Sodium**	14.2	mg/L	0.50	0.12		X433215	SJN	08/20/24 12:30	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X433215	SJN	08/20/24 12:30	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X434185	SMU	08/29/24 12:10	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X434185	SMU	08/29/24 12:10	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X434185	SMU	08/29/24 12:10	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X434185	SMU	08/29/24 12:10	
EPA 200.8	Copper	< 0.00040	mg/L	0.00040	0.00036		X434185	SMU	08/29/24 12:10	
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X434185	SMU	08/29/24 12:10	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X434185	SMU	08/29/24 12:10	
EPA 200.8	Silver	< 0.00008	mg/L	0.00008	0.000061		X434185	SMU	08/29/24 12:10	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X434185	SMU	08/29/24 12:10	
EPA 200.8	**Uranium**	0.00182	mg/L	0.000100	0.000052		X434185	SMU	08/29/24 12:10	

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0233**
Reported: 05-Sep-24 15:35

Client Sample ID: **GV-06**
SVL Sample ID: **X4H0233-01 (Surface Water)**

Sampled: 13-Aug-24 11:24
Received: 14-Aug-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X435204	DD	09/04/24 08:47	H1
Calculation	Chromium(III)	< 0.0560	mg/L	0.0560	0.0210		N/A		08/26/24 11:19	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X434007	DD	08/20/24 09:51	
EPA 350.1	**Ammonia as N**	0.040	mg/L	0.030	0.013		X433157	DD	08/19/24 11:48	
EPA 351.2	**TKN**	1.46	mg/L	0.50	0.31		X433149	DD	08/15/24 12:39	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X433190	DD	08/16/24 14:20	
SM 2310 B	**Acidity to pH 8.3**	-133	mg/L as CaCO3	10.0			X434227	MWD	08/23/24 12:23	
SM 2320 B	**Total Alkalinity**	135	mg/L as CaCO3	1.0			X433222	MWD	08/16/24 14:35	
SM 2320 B	**Bicarbonate**	135	mg/L as CaCO3	1.0			X433222	MWD	08/16/24 14:35	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X433222	MWD	08/16/24 14:35	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X433222	MWD	08/16/24 14:35	
SM 2540 C	**Total Diss. Solids**	283	mg/L	10			X433201	TJL	08/19/24 13:05	
SM 2540 D	**Total Susp. Solids**	10.0	mg/L	5.0			X433202	TJL	08/19/24 15:00	
SM 4500 H B	**pH @21.1°C**	7.9	pH Units				X433222	MWD	08/16/24 14:35	H5
SM 4500 S D	Sulfide	< 0.050	mg/L	0.050	0.020		X433097	NMS	08/15/24 12:05	
SM 4500-O-G	**Dissolved Oxygen**	6.7	mg/L	0.1			X433164	TJL	08/15/24 12:10	H3,H5
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	< 0.0500	mg/L	0.0500	0.0190	10	X433193	NMS	08/15/24 17:49	D11
Filtered Classical Chemistry Parameters										
Calculation	Chromium(III)-Dissolved	< 0.0510	mg/L	0.0510	0.0192		N/A		08/29/24 12:10	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	8.00	mg/L	0.20	0.02		X433154	RS	08/14/24 12:20	
EPA 300.0	**Fluoride**	0.600	mg/L	0.100	0.017		X433154	RS	08/14/24 12:20	
EPA 300.0	**Nitrate as N**	0.153	mg/L	0.050	0.013		X433154	RS	08/14/24 12:20	
EPA 300.0	**Nitrate+Nitrite as N**	0.162	mg/L	0.100	0.044		X433154	RS	08/14/24 12:20	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X433154	RS	08/14/24 12:20	
EPA 300.0	**Sulfate as SO4**	55.7	mg/L	3.00	1.80	10	X433154	RS	08/14/24 12:36	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.83 meq/L Anion Sum: 4.13 meq/L C/A Balance: -3.76 % Calculated TDS: 222 TDS/cTDS: 1.28

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

Tawnya M. Hall
Project Manager Assistant

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

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Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0233**
Reported: 05-Sep-24 15:35

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	X433208	16-Aug-24	
EPA 1631E	Mercury	ng/L	<0.500	0.120	0.500	X433208	16-Aug-24	
EPA 1631E	Mercury	ng/L	<0.500	0.120	0.500	X433208	16-Aug-24	
EPA 245.1	Mercury	mg/L	<0.000093	0.000093	0.000200	X434033	27-Aug-24	U
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X434069	26-Aug-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X434069	26-Aug-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X434069	26-Aug-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X434069	26-Aug-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X434069	26-Aug-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X434069	26-Aug-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X434069	26-Aug-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X434069	26-Aug-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X434069	26-Aug-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X434069	26-Aug-24	
EPA 200.7	Phosphorus	mg/L	<0.050	0.013	0.050	X434069	26-Aug-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X434069	26-Aug-24	
EPA 200.7	Sodium	mg/L	<0.12	0.12	0.50	X434069	26-Aug-24	U
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X434069	26-Aug-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X434151	26-Aug-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X434151	26-Aug-24	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X434151	26-Aug-24	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X434151	26-Aug-24	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X434151	26-Aug-24	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X434151	26-Aug-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X434151	26-Aug-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X433215	20-Aug-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X433215	20-Aug-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X433215	20-Aug-24	
EPA 200.7	Calcium	mg/L	0.353	0.069	0.100	X433215	20-Aug-24	B7
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X433215	20-Aug-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X433215	20-Aug-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X433215	20-Aug-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X433215	20-Aug-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X433215	20-Aug-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X433215	20-Aug-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X433215	20-Aug-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X433215	20-Aug-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X434185	29-Aug-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X434185	29-Aug-24	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X434185	29-Aug-24	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X434185	29-Aug-24	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X434185	29-Aug-24	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X434185	29-Aug-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X434185	29-Aug-24	
EPA 200.8	Silver	mg/L	<0.00008	0.000061	0.00008	X434185	29-Aug-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X434185	29-Aug-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X434185	29-Aug-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X435204	04-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X434007	20-Aug-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X433157	19-Aug-24	
EPA 351.2	TKN	mg/L	<0.50	0.31	0.50	X433149	15-Aug-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0233**
Reported: 05-Sep-24 15:35

Quality Control - BLANK Data (Continued)

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Classical Chemistry Parameters (Continued)								
EPA 351.2	TKN	mg/L	<0.50	0.31	0.50	X433226	30-Aug-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X433190	16-Aug-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X434227	23-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X433222	16-Aug-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X433222	16-Aug-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X433222	16-Aug-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X433222	16-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X433201	19-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X433202	19-Aug-24	
SM 4500 S D	Sulfide	mg/L	<0.050	0.020	0.050	X433097	15-Aug-24	
Dissolved Classical Chemistry Parameters								
SM 3500 Cr B	Hexavalent Chromium	mg/L	<0.0050	0.0019	0.0050	X433193	15-Aug-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X433154	14-Aug-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X433154	14-Aug-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X433154	14-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X433154	14-Aug-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X433154	14-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X433154	14-Aug-24	

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	4.81	5.00	96.2	77 - 123	X433208	16-Aug-24	
EPA 245.1	Mercury	mg/L	0.00212	0.00200	106	85 - 115	X434033	27-Aug-24	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Barium	mg/L	0.915	1.00	91.5	85 - 115	X434069	26-Aug-24	
EPA 200.7	Beryllium	mg/L	0.915	1.00	91.5	85 - 115	X434069	26-Aug-24	
EPA 200.7	Boron	mg/L	0.941	1.00	94.1	85 - 115	X434069	26-Aug-24	
EPA 200.7	Calcium	mg/L	18.0	20.0	90	85 - 115	X434069	26-Aug-24	
EPA 200.7	Chromium	mg/L	0.918	1.00	91.8	85 - 115	X434069	26-Aug-24	
EPA 200.7	Iron	mg/L	9.26	10.0	92.6	85 - 115	X434069	26-Aug-24	
EPA 200.7	Magnesium	mg/L	18.5	20.0	92.5	85 - 115	X434069	26-Aug-24	
EPA 200.7	Manganese	mg/L	0.895	1.00	89.5	85 - 115	X434069	26-Aug-24	
EPA 200.7	Molybdenum	mg/L	0.930	1.00	93.0	85 - 115	X434069	26-Aug-24	
EPA 200.7	Nickel	mg/L	0.890	1.00	89.0	85 - 115	X434069	26-Aug-24	
EPA 200.7	Phosphorus	mg/L	0.955	1.00	95.5	85 - 115	X434069	26-Aug-24	
EPA 200.7	Potassium	mg/L	18.5	20.0	92.6	85 - 115	X434069	26-Aug-24	
EPA 200.7	Sodium	mg/L	17.8	19.0	93.5	85 - 115	X434069	26-Aug-24	
EPA 200.7	Zinc	mg/L	0.909	1.00	90.9	85 - 115	X434069	26-Aug-24	
EPA 200.8	Antimony	mg/L	0.0235	0.0250	94.0	85 - 115	X434151	26-Aug-24	
EPA 200.8	Arsenic	mg/L	0.0239	0.0250	95.6	85 - 115	X434151	26-Aug-24	
EPA 200.8	Cadmium	mg/L	0.0229	0.0250	91.7	85 - 115	X434151	26-Aug-24	
EPA 200.8	Chromium	mg/L	0.0234	0.0250	93.6	85 - 115	X434151	26-Aug-24	
EPA 200.8	Copper	mg/L	0.0240	0.0250	95.9	85 - 115	X434151	26-Aug-24	
EPA 200.8	Lead	mg/L	0.0240	0.0250	95.9	85 - 115	X434151	26-Aug-24	
EPA 200.8	Selenium	mg/L	0.0228	0.0250	91.2	85 - 115	X434151	26-Aug-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.984	1.00	98.4	85 - 115	X433215	20-Aug-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0233**
Reported: 05-Sep-24 15:35

Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Dissolved) (Continued)									
EPA 200.7	Barium	mg/L	1.01	1.00	101	85 - 115	X433215	20-Aug-24	
EPA 200.7	Beryllium	mg/L	1.02	1.00	102	85 - 115	X433215	20-Aug-24	
EPA 200.7	Calcium	mg/L	20.3	20.0	101	85 - 115	X433215	20-Aug-24	B7
EPA 200.7	Iron	mg/L	10.2	10.0	102	85 - 115	X433215	20-Aug-24	
EPA 200.7	Magnesium	mg/L	20.2	20.0	101	85 - 115	X433215	20-Aug-24	
EPA 200.7	Manganese	mg/L	0.997	1.00	99.7	85 - 115	X433215	20-Aug-24	
EPA 200.7	Molybdenum	mg/L	0.967	1.00	96.7	85 - 115	X433215	20-Aug-24	
EPA 200.7	Nickel	mg/L	0.995	1.00	99.5	85 - 115	X433215	20-Aug-24	
EPA 200.7	Potassium	mg/L	20.3	20.0	101	85 - 115	X433215	20-Aug-24	
EPA 200.7	Sodium	mg/L	20.5	19.0	108	85 - 115	X433215	20-Aug-24	
EPA 200.7	Zinc	mg/L	1.02	1.00	102	85 - 115	X433215	20-Aug-24	
EPA 200.8	Antimony	mg/L	0.0230	0.0250	92.2	85 - 115	X434185	29-Aug-24	
EPA 200.8	Arsenic	mg/L	0.0238	0.0250	95.1	85 - 115	X434185	29-Aug-24	
EPA 200.8	Cadmium	mg/L	0.0237	0.0250	94.6	85 - 115	X434185	29-Aug-24	
EPA 200.8	Chromium	mg/L	0.0239	0.0250	95.6	85 - 115	X434185	29-Aug-24	
EPA 200.8	Copper	mg/L	0.0245	0.0250	97.9	85 - 115	X434185	29-Aug-24	
EPA 200.8	Lead	mg/L	0.0234	0.0250	93.5	85 - 115	X434185	29-Aug-24	
EPA 200.8	Selenium	mg/L	0.0224	0.0250	89.6	85 - 115	X434185	29-Aug-24	
EPA 200.8	Silver	mg/L	0.0234	0.0250	93.4	85 - 115	X434185	29-Aug-24	
EPA 200.8	Thallium	mg/L	0.0231	0.0250	92.2	85 - 115	X434185	29-Aug-24	
EPA 200.8	Uranium	mg/L	0.0228	0.0250	91.2	85 - 115	X434185	29-Aug-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.101	0.100	101	90 - 110	X435204	04-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.102	0.100	102	90 - 110	X434007	20-Aug-24	
EPA 350.1	Ammonia as N	mg/L	0.997	1.00	99.7	90 - 110	X433157	19-Aug-24	
EPA 351.2	TKN	mg/L	7.36	8.00	92.0	90 - 110	X433149	15-Aug-24	
EPA 351.2	TKN	mg/L	8.31	8.00	104	90 - 110	X433226	30-Aug-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0970	0.100	97.0	90 - 110	X433190	16-Aug-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	897	884	101	95.4 - 104	X434227	23-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	102	99.3	102	96.4 - 105	X433222	16-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X433202	19-Aug-24	
SM 4500 S D	Sulfide	mg/L	0.433	0.500	86.6	85 - 115	X433097	15-Aug-24	
Dissolved Classical Chemistry Parameters									
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.105	0.100	105	80 - 120	X433193	15-Aug-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.06	3.00	102	90 - 110	X433154	14-Aug-24	
EPA 300.0	Fluoride	mg/L	2.03	2.00	101	90 - 110	X433154	14-Aug-24	
EPA 300.0	Nitrate as N	mg/L	2.03	2.00	101	90 - 110	X433154	14-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.59	4.50	102	90 - 110	X433154	14-Aug-24	
EPA 300.0	Nitrite as N	mg/L	2.56	2.50	102	90 - 110	X433154	14-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	10.3	10.0	103	90 - 110	X433154	14-Aug-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0233**
Reported: 05-Sep-24 15:35

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0	<10.0	UDL	20	X434227 - X4H0187-01	23-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	124	123	0.2	20	X433222 - X4H0232-02	16-Aug-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	124	123	0.2	20	X433222 - X4H0232-02	16-Aug-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X433222 - X4H0232-02	16-Aug-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X433222 - X4H0232-02	16-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	252	258	2.4	10	X433201 - X4H0233-02	19-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	259	263	1.5	10	X433201 - X4H0233-03	19-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	18.0	18.0	0.0	10	X433202 - X4H0233-03	19-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X433202 - X4H0233-02	19-Aug-24	
SM 4500 H B	pH @20.9°C	pH Units	8.2	8.2	0.0	20	X433222 - X4H0232-02	16-Aug-24	
SM 4500-O-G	Dissolved Oxygen	mg/L	6.7	6.7	0.0	20	X433164 - X4H0207-01	15-Aug-24	
SM 4500-O-G	Dissolved Oxygen	mg/L	7.1	7.2	1.4	20	X433164 - X4H0238-01	15-Aug-24	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total)										
EPA 1631E	Mercury	ng/L	2.81	<0.500	2.50	98.3	71 - 125	X433208 - X4H0292-01	16-Aug-24	
EPA 1631E	Mercury	ng/L	3.10	0.590	2.50	100	71 - 125	X433208 - X4H0260-01	16-Aug-24	
EPA 245.1	Mercury	mg/L	0.00210	<0.000093	0.00200	105	70 - 130	X434033 - X4H0202-03	27-Aug-24	
EPA 245.1	Mercury	mg/L	0.00211	<0.000093	0.00200	105	70 - 130	X434033 - X4H0202-10	27-Aug-24	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	1.12	0.210	1.00	91.4	70 - 130	X434069 - X4H0207-01	26-Aug-24	
EPA 200.7	Barium	mg/L	0.926	0.0407	1.00	88.5	70 - 130	X434069 - X4H0238-01	26-Aug-24	
EPA 200.7	Beryllium	mg/L	0.939	<0.00200	1.00	93.9	70 - 130	X434069 - X4H0207-01	26-Aug-24	
EPA 200.7	Beryllium	mg/L	0.944	<0.00200	1.00	94.4	70 - 130	X434069 - X4H0238-01	26-Aug-24	
EPA 200.7	Boron	mg/L	0.979	<0.0400	1.00	96.2	70 - 130	X434069 - X4H0207-01	26-Aug-24	
EPA 200.7	Boron	mg/L	1.05	0.0541	1.00	99.5	70 - 130	X434069 - X4H0238-01	26-Aug-24	
EPA 200.7	Calcium	mg/L	60.8	41.6	20.0	96	70 - 130	X434069 - X4H0207-01	26-Aug-24	
EPA 200.7	Calcium	mg/L	300	275	20.0	126	70 - 130	X434069 - X4H0238-01	26-Aug-24	
EPA 200.7	Chromium	mg/L	0.928	<0.0060	1.00	92.8	70 - 130	X434069 - X4H0207-01	26-Aug-24	
EPA 200.7	Chromium	mg/L	0.932	<0.0060	1.00	93.2	70 - 130	X434069 - X4H0238-01	26-Aug-24	
EPA 200.7	Iron	mg/L	9.95	0.560	10.0	93.9	70 - 130	X434069 - X4H0207-01	26-Aug-24	
EPA 200.7	Iron	mg/L	9.88	0.239	10.0	96.4	70 - 130	X434069 - X4H0238-01	26-Aug-24	
EPA 200.7	Magnesium	mg/L	38.6	19.3	20.0	96.8	70 - 130	X434069 - X4H0207-01	26-Aug-24	
EPA 200.7	Magnesium	mg/L	236	210	20.0	0.30R>S	70 - 130	X434069 - X4H0238-01	26-Aug-24	M3
EPA 200.7	Manganese	mg/L	0.974	0.0707	1.00	90.4	70 - 130	X434069 - X4H0207-01	26-Aug-24	
EPA 200.7	Manganese	mg/L	1.92	0.962	1.00	95.8	70 - 130	X434069 - X4H0238-01	26-Aug-24	
EPA 200.7	Molybdenum	mg/L	0.942	<0.0080	1.00	94.2	70 - 130	X434069 - X4H0207-01	26-Aug-24	
EPA 200.7	Molybdenum	mg/L	0.970	<0.0080	1.00	96.6	70 - 130	X434069 - X4H0238-01	26-Aug-24	
EPA 200.7	Nickel	mg/L	0.889	<0.0100	1.00	88.2	70 - 130	X434069 - X4H0207-01	26-Aug-24	
EPA 200.7	Nickel	mg/L	0.995	0.0904	1.00	90.4	70 - 130	X434069 - X4H0238-01	26-Aug-24	
EPA 200.7	Phosphorus	mg/L	1.03	0.053	1.00	97.4	70 - 130	X434069 - X4H0207-01	26-Aug-24	
EPA 200.7	Phosphorus	mg/L	1.08	<0.050	1.00	104	70 - 130	X434069 - X4H0238-01	26-Aug-24	
EPA 200.7	Potassium	mg/L	20.2	1.28	20.0	94.5	70 - 130	X434069 - X4H0207-01	26-Aug-24	
EPA 200.7	Potassium	mg/L	24.3	4.32	20.0	99.9	70 - 130	X434069 - X4H0238-01	26-Aug-24	
EPA 200.7	Sodium	mg/L	21.2	3.17	19.0	94.9	70 - 130	X434069 - X4H0207-01	26-Aug-24	
EPA 200.7	Sodium	mg/L	88.2	67.9	19.0	107	70 - 130	X434069 - X4H0238-01	26-Aug-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0233**
Reported: 05-Sep-24 15:35

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136) (Continued)										
EPA 200.7	Zinc	mg/L	0.943	0.0276	1.00	91.5	70 - 130	X434069 - X4H0207-01	26-Aug-24	
EPA 200.7	Zinc	mg/L	1.09	0.143	1.00	94.8	70 - 130	X434069 - X4H0238-01	26-Aug-24	
EPA 200.8	Antimony	mg/L	0.0224	<0.00100	0.0250	89.7	70 - 130	X434151 - X4H0233-01	26-Aug-24	
EPA 200.8	Antimony	mg/L	0.0218	<0.00100	0.0250	87.2	70 - 130	X434151 - X4H0294-01	26-Aug-24	
EPA 200.8	Arsenic	mg/L	0.0240	<0.00100	0.0250	92.6	70 - 130	X434151 - X4H0233-01	26-Aug-24	
EPA 200.8	Arsenic	mg/L	0.0222	<0.00100	0.0250	86.6	70 - 130	X434151 - X4H0294-01	26-Aug-24	
EPA 200.8	Cadmium	mg/L	0.0216	<0.000100	0.0250	86.3	70 - 130	X434151 - X4H0233-01	26-Aug-24	
EPA 200.8	Cadmium	mg/L	0.0202	<0.000100	0.0250	80.9	70 - 130	X434151 - X4H0294-01	26-Aug-24	
EPA 200.8	Chromium	mg/L	0.0234	<0.00100	0.0250	92.5	70 - 130	X434151 - X4H0233-01	26-Aug-24	
EPA 200.8	Chromium	mg/L	0.0223	<0.00100	0.0250	88.5	70 - 130	X434151 - X4H0294-01	26-Aug-24	
EPA 200.8	Copper	mg/L	0.0236	0.00079	0.0250	91.2	70 - 130	X434151 - X4H0233-01	26-Aug-24	
EPA 200.8	Copper	mg/L	0.0223	0.00082	0.0250	86.1	70 - 130	X434151 - X4H0294-01	26-Aug-24	
EPA 200.8	Lead	mg/L	0.0243	0.00090	0.0250	93.5	70 - 130	X434151 - X4H0233-01	26-Aug-24	
EPA 200.8	Lead	mg/L	0.0224	0.00026	0.0250	88.4	70 - 130	X434151 - X4H0294-01	26-Aug-24	
EPA 200.8	Selenium	mg/L	0.0224	<0.00100	0.0250	88.6	70 - 130	X434151 - X4H0233-01	26-Aug-24	
EPA 200.8	Selenium	mg/L	0.0221	0.00134	0.0250	83.2	70 - 130	X434151 - X4H0294-01	26-Aug-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.12	<0.080	1.00	112	70 - 130	X433215 - X4H0188-01	20-Aug-24	
EPA 200.7	Aluminum	mg/L	1.07	<0.080	1.00	107	70 - 130	X433215 - X4H0233-03	20-Aug-24	
EPA 200.7	Barium	mg/L	1.13	0.0163	1.00	112	70 - 130	X433215 - X4H0188-01	20-Aug-24	
EPA 200.7	Barium	mg/L	1.10	0.0291	1.00	108	70 - 130	X433215 - X4H0233-03	20-Aug-24	
EPA 200.7	Beryllium	mg/L	1.12	<0.00200	1.00	112	70 - 130	X433215 - X4H0188-01	20-Aug-24	
EPA 200.7	Beryllium	mg/L	1.09	<0.00200	1.00	109	70 - 130	X433215 - X4H0233-03	20-Aug-24	
EPA 200.7	Calcium	mg/L	99.9	65.6	20.0	171	70 - 130	X433215 - X4H0188-01	20-Aug-24	B7,M1
EPA 200.7	Calcium	mg/L	74.3	50.0	20.0	122	70 - 130	X433215 - X4H0233-03	20-Aug-24	B7
EPA 200.7	Iron	mg/L	13.6	1.92	10.0	117	70 - 130	X433215 - X4H0188-01	20-Aug-24	
EPA 200.7	Iron	mg/L	11.1	0.117	10.0	110	70 - 130	X433215 - X4H0233-03	20-Aug-24	
EPA 200.7	Magnesium	mg/L	52.8	25.9	20.0	134	70 - 130	X433215 - X4H0188-01	20-Aug-24	M1
EPA 200.7	Magnesium	mg/L	34.7	12.4	20.0	111	70 - 130	X433215 - X4H0233-03	20-Aug-24	
EPA 200.7	Manganese	mg/L	1.31	0.184	1.00	113	70 - 130	X433215 - X4H0188-01	20-Aug-24	
EPA 200.7	Manganese	mg/L	1.48	0.407	1.00	107	70 - 130	X433215 - X4H0233-03	20-Aug-24	
EPA 200.7	Molybdenum	mg/L	1.06	<0.0080	1.00	106	70 - 130	X433215 - X4H0188-01	20-Aug-24	
EPA 200.7	Molybdenum	mg/L	1.11	<0.0080	1.00	111	70 - 130	X433215 - X4H0233-03	20-Aug-24	
EPA 200.7	Nickel	mg/L	1.03	<0.0100	1.00	103	70 - 130	X433215 - X4H0188-01	20-Aug-24	
EPA 200.7	Nickel	mg/L	1.10	<0.0100	1.00	110	70 - 130	X433215 - X4H0233-03	20-Aug-24	
EPA 200.7	Potassium	mg/L	34.9	10.8	20.0	120	70 - 130	X433215 - X4H0188-01	20-Aug-24	
EPA 200.7	Potassium	mg/L	23.9	2.14	20.0	109	70 - 130	X433215 - X4H0233-03	20-Aug-24	
EPA 200.7	Sodium	mg/L	76.2	48.3	19.0	147	70 - 130	X433215 - X4H0188-01	20-Aug-24	M1
EPA 200.7	Sodium	mg/L	35.9	15.4	19.0	108	70 - 130	X433215 - X4H0233-03	20-Aug-24	
EPA 200.7	Zinc	mg/L	1.07	<0.0100	1.00	107	70 - 130	X433215 - X4H0188-01	20-Aug-24	
EPA 200.7	Zinc	mg/L	1.13	<0.0100	1.00	113	70 - 130	X433215 - X4H0233-03	20-Aug-24	
EPA 200.8	Antimony	mg/L	0.0294	<0.00100	0.0250	118	70 - 130	X434185 - X4H0260-01	29-Aug-24	
EPA 200.8	Antimony	mg/L	0.0322	0.00152	0.0250	123	70 - 130	X434185 - X4H0295-01	29-Aug-24	
EPA 200.8	Arsenic	mg/L	0.0303	0.00132	0.0250	116	70 - 130	X434185 - X4H0260-01	29-Aug-24	
EPA 200.8	Arsenic	mg/L	0.0313	<0.00100	0.0250	123	70 - 130	X434185 - X4H0295-01	29-Aug-24	
EPA 200.8	Cadmium	mg/L	0.0282	<0.000100	0.0250	113	70 - 130	X434185 - X4H0260-01	29-Aug-24	
EPA 200.8	Cadmium	mg/L	0.0298	<0.000100	0.0250	119	70 - 130	X434185 - X4H0295-01	29-Aug-24	
EPA 200.8	Chromium	mg/L	0.0271	<0.00100	0.0250	108	70 - 130	X434185 - X4H0260-01	29-Aug-24	
EPA 200.8	Chromium	mg/L	0.0476	0.0183	0.0250	117	70 - 130	X434185 - X4H0295-01	29-Aug-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0233**
Reported: 05-Sep-24 15:35

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.8	Copper	mg/L	0.0272	0.00077	0.0250	106	70 - 130	X434185 - X4H0260-01	29-Aug-24	
EPA 200.8	Copper	mg/L	0.0305	0.00243	0.0250	112	70 - 130	X434185 - X4H0295-01	29-Aug-24	
EPA 200.8	Lead	mg/L	0.0281	<0.00020	0.0250	112	70 - 130	X434185 - X4H0260-01	29-Aug-24	
EPA 200.8	Lead	mg/L	0.0295	<0.00020	0.0250	118	70 - 130	X434185 - X4H0295-01	29-Aug-24	
EPA 200.8	Selenium	mg/L	0.0296	<0.00100	0.0250	117	70 - 130	X434185 - X4H0260-01	29-Aug-24	
EPA 200.8	Selenium	mg/L	0.0314	0.00103	0.0250	121	70 - 130	X434185 - X4H0295-01	29-Aug-24	
EPA 200.8	Silver	mg/L	0.0266	<0.00008	0.0250	106	70 - 130	X434185 - X4H0260-01	29-Aug-24	
EPA 200.8	Silver	mg/L	0.0279	<0.00008	0.0250	111	70 - 130	X434185 - X4H0295-01	29-Aug-24	
EPA 200.8	Thallium	mg/L	0.0269	<0.000200	0.0250	107	70 - 130	X434185 - X4H0260-01	29-Aug-24	
EPA 200.8	Thallium	mg/L	0.0302	<0.000200	0.0250	121	70 - 130	X434185 - X4H0295-01	29-Aug-24	
EPA 200.8	Uranium	mg/L	0.0284	<0.000100	0.0250	113	70 - 130	X434185 - X4H0260-01	29-Aug-24	
EPA 200.8	Uranium	mg/L	0.0310	<0.000100	0.0250	124	70 - 130	X434185 - X4H0295-01	29-Aug-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.107	<0.0050	0.100	107	79 - 121	X435204 - X4H0232-01	04-Sep-24	H1
EPA 335.4	Cyanide (total)	mg/L	0.104	<0.0050	0.100	104	90 - 110	X434007 - X4H0296-08	20-Aug-24	
EPA 335.4	Cyanide (total)	mg/L	0.103	<0.0050	0.100	103	90 - 110	X434007 - X4H0296-09	20-Aug-24	
EPA 350.1	Ammonia as N	mg/L	1.02	0.037	1.00	98.3	90 - 110	X433157 - X4H0207-01	19-Aug-24	
EPA 350.1	Ammonia as N	mg/L	1.04	0.030	1.00	101	90 - 110	X433157 - X4H0207-02	19-Aug-24	
EPA 351.2	TKN	mg/L	8.25	<0.50	8.00	103	90 - 110	X433149 - X4H0009-01	15-Aug-24	
EPA 351.2	TKN	mg/L	8.46	<0.50	8.00	102	90 - 110	X433226 - X4H0233-02	30-Aug-24	
EPA 351.2	TKN	mg/L	8.57	<0.50	8.00	101	90 - 110	X433226 - X4H0233-03	30-Aug-24	
OIA 1677	Cyanide (WAD)	mg/L	0.103	<0.0050	0.100	101	82 - 118	X433190 - X4H0064-01	16-Aug-24	
SM 4500 S D	Sulfide	mg/L	0.228	<0.050	0.200	114	75 - 125	X433097 - X4H0207-04	15-Aug-24	
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0196	<0.0050	0.0200	97.9	75 - 125	X433193 - X4H0146-01	15-Aug-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	16.6	13.8	3.00	92.4	90 - 110	X433154 - X4H0233-03	14-Aug-24	
EPA 300.0	Chloride	mg/L	3.15	<0.20	3.00	105	90 - 110	X433154 - X4H0238-03	14-Aug-24	
EPA 300.0	Fluoride	mg/L	2.73	0.739	2.00	99.4	90 - 110	X433154 - X4H0233-03	14-Aug-24	
EPA 300.0	Fluoride	mg/L	2.06	<0.100	2.00	103	90 - 110	X433154 - X4H0238-03	14-Aug-24	
EPA 300.0	Nitrate as N	mg/L	2.14	0.078	2.00	103	90 - 110	X433154 - X4H0233-03	14-Aug-24	
EPA 300.0	Nitrate as N	mg/L	2.13	0.057	2.00	104	90 - 110	X433154 - X4H0238-03	14-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.20	<0.100	4.00	103	90 - 110	X433154 - X4H0233-03	14-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.19	<0.100	4.00	103	90 - 110	X433154 - X4H0238-03	14-Aug-24	
EPA 300.0	Nitrite as N	mg/L	2.06	<0.050	2.00	103	90 - 110	X433154 - X4H0233-03	14-Aug-24	
EPA 300.0	Nitrite as N	mg/L	2.05	<0.050	2.00	103	90 - 110	X433154 - X4H0238-03	14-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	55.4	45.1	10.0	102	90 - 110	X433154 - X4H0233-03	14-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	10.4	<0.30	10.0	102	90 - 110	X433154 - X4H0238-03	14-Aug-24	

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	3.18	2.81	2.50	12.3	24	113	X433208 - X4H0292-01	
EPA 1631E	Mercury	ng/L	3.20	3.10	2.50	3.0	24	104	X433208 - X4H0260-01	
EPA 245.1	Mercury	mg/L	0.00217	0.00210	0.00200	3.1	20	108	X434033 - X4H0202-03	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	1.14	1.12	1.00	1.7	20	93.4	X434069 - X4H0207-01	

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0233**
Reported: 05-Sep-24 15:35

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136) (Continued)										
EPA 200.7	Beryllium	mg/L	0.971	0.939	1.00	3.4	20	97.1	X434069 - X4H0207-01	
EPA 200.7	Boron	mg/L	1.00	0.979	1.00	2.4	20	98.6	X434069 - X4H0207-01	
EPA 200.7	Calcium	mg/L	62.3	60.8	20.0	2.0	20	103	X434069 - X4H0207-01	
EPA 200.7	Chromium	mg/L	0.950	0.928	1.00	2.4	20	95.0	X434069 - X4H0207-01	
EPA 200.7	Iron	mg/L	10.2	9.95	10.0	2.8	20	96.7	X434069 - X4H0207-01	
EPA 200.7	Magnesium	mg/L	39.3	38.6	20.0	1.6	20	99.9	X434069 - X4H0207-01	
EPA 200.7	Manganese	mg/L	1.00	0.974	1.00	2.8	20	93.2	X434069 - X4H0207-01	
EPA 200.7	Molybdenum	mg/L	0.964	0.942	1.00	2.3	20	96.4	X434069 - X4H0207-01	
EPA 200.7	Nickel	mg/L	0.907	0.889	1.00	2.0	20	90.0	X434069 - X4H0207-01	
EPA 200.7	Phosphorus	mg/L	1.05	1.03	1.00	2.3	20	99.8	X434069 - X4H0207-01	
EPA 200.7	Potassium	mg/L	20.7	20.2	20.0	2.6	20	97.2	X434069 - X4H0207-01	
EPA 200.7	Sodium	mg/L	21.8	21.2	19.0	2.7	20	98.0	X434069 - X4H0207-01	
EPA 200.7	Zinc	mg/L	0.971	0.943	1.00	2.9	20	94.4	X434069 - X4H0207-01	
EPA 200.8	Antimony	mg/L	0.0231	0.0224	0.0250	3.1	20	92.6	X434151 - X4H0233-01	
EPA 200.8	Arsenic	mg/L	0.0245	0.0240	0.0250	1.7	20	94.3	X434151 - X4H0233-01	
EPA 200.8	Cadmium	mg/L	0.0223	0.0216	0.0250	3.4	20	89.3	X434151 - X4H0233-01	
EPA 200.8	Chromium	mg/L	0.0238	0.0234	0.0250	1.7	20	94.1	X434151 - X4H0233-01	
EPA 200.8	Copper	mg/L	0.0241	0.0236	0.0250	1.9	20	93.0	X434151 - X4H0233-01	
EPA 200.8	Lead	mg/L	0.0247	0.0243	0.0250	1.6	20	95.1	X434151 - X4H0233-01	
EPA 200.8	Selenium	mg/L	0.0234	0.0224	0.0250	4.2	20	92.5	X434151 - X4H0233-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.974	1.12	1.00	13.6	20	97.4	X433215 - X4H0188-01	
EPA 200.7	Barium	mg/L	1.00	1.13	1.00	12.1	20	98.8	X433215 - X4H0188-01	
EPA 200.7	Beryllium	mg/L	0.999	1.12	1.00	11.7	20	99.9	X433215 - X4H0188-01	
EPA 200.7	Calcium	mg/L	87.7	99.9	20.0	13.0	20	111	X433215 - X4H0188-01	B7
EPA 200.7	Iron	mg/L	12.0	13.6	10.0	12.8	20	101	X433215 - X4H0188-01	
EPA 200.7	Magnesium	mg/L	46.8	52.8	20.0	12.0	20	104	X433215 - X4H0188-01	
EPA 200.7	Manganese	mg/L	1.17	1.31	1.00	11.5	20	98.3	X433215 - X4H0188-01	
EPA 200.7	Molybdenum	mg/L	0.997	1.06	1.00	5.7	20	99.7	X433215 - X4H0188-01	
EPA 200.7	Nickel	mg/L	0.978	1.03	1.00	5.1	20	97.8	X433215 - X4H0188-01	
EPA 200.7	Potassium	mg/L	31.4	34.9	20.0	10.5	20	103	X433215 - X4H0188-01	
EPA 200.7	Sodium	mg/L	68.3	76.2	19.0	11.0	20	105	X433215 - X4H0188-01	
EPA 200.7	Zinc	mg/L	1.02	1.07	1.00	5.3	20	101	X433215 - X4H0188-01	
EPA 200.8	Antimony	mg/L	0.0288	0.0294	0.0250	1.9	20	115	X434185 - X4H0260-01	
EPA 200.8	Arsenic	mg/L	0.0300	0.0303	0.0250	0.9	20	115	X434185 - X4H0260-01	
EPA 200.8	Cadmium	mg/L	0.0284	0.0282	0.0250	0.8	20	114	X434185 - X4H0260-01	
EPA 200.8	Chromium	mg/L	0.0271	0.0271	0.0250	0.2	20	109	X434185 - X4H0260-01	
EPA 200.8	Copper	mg/L	0.0272	0.0272	0.0250	0.2	20	106	X434185 - X4H0260-01	
EPA 200.8	Lead	mg/L	0.0283	0.0281	0.0250	0.6	20	113	X434185 - X4H0260-01	
EPA 200.8	Selenium	mg/L	0.0301	0.0296	0.0250	1.7	20	119	X434185 - X4H0260-01	
EPA 200.8	Silver	mg/L	0.0266	0.0266	0.0250	0.1	20	106	X434185 - X4H0260-01	
EPA 200.8	Thallium	mg/L	0.0271	0.0269	0.0250	0.8	20	108	X434185 - X4H0260-01	
EPA 200.8	Uranium	mg/L	0.0285	0.0284	0.0250	0.4	20	114	X434185 - X4H0260-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.112	0.107	0.100	4.6	11	112	X435204 - X4H0232-01	H1
EPA 335.4	Cyanide (total)	mg/L	0.101	0.104	0.100	2.8	20	101	X434007 - X4H0296-08	
EPA 350.1	Ammonia as N	mg/L	1.00	1.02	1.00	1.8	20	96.5	X433157 - X4H0207-01	
EPA 351.2	TKN	mg/L	7.17	8.25	8.00	14.0	20	89.6	X433149 - X4H0009-01	M2
EPA 351.2	TKN	mg/L	8.96	8.46	8.00	5.8	20	108	X433226 - X4H0233-02	
OIA 1677	Cyanide (WAD)	mg/L	0.101	0.103	0.100	2.0	11	99.0	X433190 - X4H0064-01	
SM 4500 S D	Sulfide	mg/L	0.215	0.228	0.200	5.9	20	108	X433097 - X4H0207-04	
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0204	0.0196	0.0200	4.3	20	102	X433193 - X4H0146-01	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0233**
Reported: 05-Sep-24 15:35

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	16.7	16.6	3.00	1.0	20	97.9	X433154 - X4H0233-03	
EPA 300.0	Fluoride	mg/L	2.75	2.73	2.00	0.9	20	101	X433154 - X4H0233-03	
EPA 300.0	Nitrate as N	mg/L	2.16	2.14	2.00	1.2	20	104	X433154 - X4H0233-03	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.27	4.20	4.00	1.6	20	105	X433154 - X4H0233-03	
EPA 300.0	Nitrite as N	mg/L	2.11	2.06	2.00	2.1	20	105	X433154 - X4H0233-03	
EPA 300.0	Sulfate as SO4	mg/L	55.0	55.4	10.0	0.6	20	98.7	X433154 - X4H0233-03	

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4H0233**
Victor, CO 80860	Reported: 05-Sep-24 15:35

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.
H1	Sample analysis performed past holding time.
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.
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.
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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Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0310**
Reported: 08-Oct-24 16:14

Client Sample ID: **GV-6**
SVL Sample ID: **X4I0310-01 (Surface Water)**

Sampled: 18-Sep-24 10:51
Received: 19-Sep-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 1631E	**Mercury**	1.37	ng/L	0.500	0.120		X438221	MAC	09/27/24 16:35	
EPA 245.1	Mercury	< 0.000093	mg/L	0.000200	0.000093		X439068	MAC	09/26/24 17:01	U
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Barium**	0.142	mg/L	0.0020	0.0019		X439104	NMS	09/27/24 09:02	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X439104	NMS	09/27/24 09:02	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X439104	NMS	09/27/24 09:02	
EPA 200.7	**Calcium**	44.1	mg/L	0.100	0.069		X439104	NMS	09/27/24 09:02	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X439104	NMS	09/27/24 09:02	
EPA 200.7	**Iron**	1.43	mg/L	0.100	0.056		X439104	NMS	09/27/24 09:02	
EPA 200.7	**Magnesium**	10.9	mg/L	0.500	0.090		X439104	NMS	09/27/24 09:02	
EPA 200.7	**Manganese**	0.925	mg/L	0.0080	0.0034		X439104	NMS	09/27/24 09:02	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X439104	NMS	09/27/24 09:02	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X439104	NMS	09/27/24 09:02	
EPA 200.7	**Phosphorus**	0.054	mg/L	0.050	0.013		X439104	NMS	09/27/24 09:02	
EPA 200.7	**Potassium**	1.30	mg/L	0.50	0.18		X439104	NMS	09/27/24 09:02	
EPA 200.7	**Sodium**	12.3	mg/L	0.50	0.12		X439104	NMS	09/27/24 09:02	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X439104	NMS	09/27/24 09:02	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X439105	JRR	10/03/24 08:25	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X439105	JRR	10/03/24 08:25	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X439105	JRR	10/03/24 08:25	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X439105	JRR	10/03/24 08:25	
EPA 200.8	Copper	< 0.00040	mg/L	0.00040	0.00036		X439105	JRR	10/03/24 08:25	
EPA 200.8	**Lead**	0.00046	mg/L	0.00020	0.00014		X439105	JRR	10/03/24 08:25	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X439105	JRR	10/03/24 08:25	
SM 2340 B	**Hardness (as CaC03)**	157	mg/L	2.31	0.543		N/A		09/27/24 09:02	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X439058	NMS	09/25/24 09:06	
EPA 200.7	**Barium**	0.121	mg/L	0.0020	0.0019		X439058	NMS	09/25/24 09:06	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X439058	NMS	09/25/24 09:06	
EPA 200.7	**Calcium**	45.3	mg/L	0.100	0.069		X439058	NMS	09/25/24 09:06	
EPA 200.7	**Iron**	0.257	mg/L	0.100	0.056		X439058	NMS	09/25/24 09:06	
EPA 200.7	**Magnesium**	10.7	mg/L	0.500	0.090		X439058	NMS	09/25/24 09:06	
EPA 200.7	**Manganese**	0.657	mg/L	0.0080	0.0034		X439058	NMS	09/25/24 09:06	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X439058	NMS	09/25/24 09:06	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X439058	NMS	09/25/24 09:06	
EPA 200.7	**Potassium**	1.18	mg/L	0.50	0.18		X439058	NMS	09/25/24 09:06	
EPA 200.7	**Sodium**	12.6	mg/L	0.50	0.12		X439058	NMS	09/25/24 09:06	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X439058	NMS	09/25/24 09:06	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X440113	JRR	10/08/24 12:15	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X440113	JRR	10/08/24 12:15	
EPA 200.8	**Cadmium**	0.000105	mg/L	0.000100	0.000063		X440113	JRR	10/08/24 12:15	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X440113	JRR	10/08/24 12:15	
EPA 200.8	**Copper**	0.00045	mg/L	0.00040	0.00036		X440113	JRR	10/08/24 12:15	
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X440113	JRR	10/08/24 12:15	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X440113	JRR	10/08/24 12:15	
EPA 200.8	Silver	< 0.00008	mg/L	0.00008	0.000061		X440113	JRR	10/08/24 12:15	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X440113	JRR	10/08/24 12:15	
EPA 200.8	**Uranium**	0.00188	mg/L	0.000100	0.000052		X440113	JRR	10/08/24 12:15	

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0310**
Reported: 08-Oct-24 16:14

Client Sample ID: **GV-6**
SVL Sample ID: **X4I0310-01 (Surface Water)**

Sampled: 18-Sep-24 10:51
Received: 19-Sep-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X439153	DD	10/01/24 12:32	
Calculation	Chromium(III)	< 0.0110	mg/L	0.0110	0.00390		N/A		09/27/24 09:02	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X439001	DD	09/24/24 10:57	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X439085	DD	09/25/24 13:48	
EPA 351.2	TKN	< 0.50	mg/L	0.50	0.31		X439136	DD	10/02/24 14:16	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X438184	DD	09/20/24 12:33	
SM 2310 B	**Acidity to pH 8.3**	-118	mg/L as CaCO3	10.0			X439181	MWD	09/28/24 09:35	
SM 2320 B	**Total Alkalinity**	107	mg/L as CaCO3	1.0			X439035	MWD	09/24/24 11:21	
SM 2320 B	**Bicarbonate**	107	mg/L as CaCO3	1.0			X439035	MWD	09/24/24 11:21	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X439035	MWD	09/24/24 11:21	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X439035	MWD	09/24/24 11:21	
SM 2540 C	**Total Diss. Solids**	254	mg/L	10			X438217	TJL	09/24/24 13:10	
SM 2540 D	**Total Susp. Solids**	15.0	mg/L	5.0			X438218	TJL	09/24/24 12:20	
SM 4500 H B	**pH @19.9°C**	7.7	pH Units				X439035	MWD	09/24/24 11:21	H5
SM 4500 S D	Sulfide	< 0.050	mg/L	0.050	0.020		X439100	ORW	09/25/24 11:36	
SM 4500-O-G	**Dissolved Oxygen**	7.2	mg/L	0.1			X440055	TJL	10/01/24 14:15	H5
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	< 0.0050	mg/L	0.0050	0.0019		X439004	ORW	09/23/24 15:15	
Filtered Classical Chemistry Parameters										
Calculation	Chromium(III)-Dissolved	< 0.00600	mg/L	0.00600	0.00207		N/A		10/08/24 12:15	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	8.37	mg/L	0.20	0.02		X438168	RS	09/19/24 17:19	
EPA 300.0	**Fluoride**	0.499	mg/L	0.100	0.017		X438168	RS	09/19/24 17:19	
EPA 300.0	**Nitrate as N**	0.212	mg/L	0.050	0.013		X438168	RS	09/19/24 17:19	
EPA 300.0	**Nitrate+Nitrite as N**	0.216	mg/L	0.100	0.044		X438168	RS	09/19/24 17:19	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X438168	RS	09/19/24 17:19	
EPA 300.0	**Sulfate as SO4**	78.0	mg/L	3.00	1.80	10	X438168	RS	09/19/24 17:35	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.69 meq/L Anion Sum: 4.04 meq/L C/A Balance: -4.55 % Calculated TDS: 221 TDS/cTDS: 1.15

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

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Newmont - Cripple Creek & Victor
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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0310**
Reported: 08-Oct-24 16:14

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	X438221	27-Sep-24	
EPA 1631E	Mercury	ng/L	<0.500	0.120	0.500	X438221	27-Sep-24	
EPA 1631E	Mercury	ng/L	<0.500	0.120	0.500	X438221	27-Sep-24	
EPA 245.1	Mercury	mg/L	<0.000093	0.000093	0.000200	X439068	26-Sep-24	U
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X439104	27-Sep-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X439104	27-Sep-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X439104	27-Sep-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X439104	27-Sep-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X439104	27-Sep-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X439104	27-Sep-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X439104	27-Sep-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X439104	27-Sep-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X439104	27-Sep-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X439104	27-Sep-24	
EPA 200.7	Phosphorus	mg/L	<0.050	0.013	0.050	X439104	27-Sep-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X439104	27-Sep-24	
EPA 200.7	Sodium	mg/L	<0.12	0.12	0.50	X439104	27-Sep-24	U
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X439104	27-Sep-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X439105	03-Oct-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X439105	03-Oct-24	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X439105	03-Oct-24	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X439105	03-Oct-24	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X439105	03-Oct-24	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X439105	03-Oct-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X439105	03-Oct-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X439058	25-Sep-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X439058	25-Sep-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X439058	25-Sep-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X439058	25-Sep-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X439058	25-Sep-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X439058	25-Sep-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X439058	25-Sep-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X439058	25-Sep-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X439058	25-Sep-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X439058	25-Sep-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X439058	25-Sep-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X439058	25-Sep-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X440113	08-Oct-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X440113	08-Oct-24	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X440113	08-Oct-24	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X440113	08-Oct-24	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X440113	08-Oct-24	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X440113	08-Oct-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X440113	08-Oct-24	
EPA 200.8	Silver	mg/L	<0.00008	0.000061	0.00008	X440113	08-Oct-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X440113	08-Oct-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X440113	08-Oct-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X439153	30-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X439001	24-Sep-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X439085	25-Sep-24	
EPA 351.2	TKN	mg/L	<0.50	0.31	0.50	X439136	02-Oct-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0310**
Reported: 08-Oct-24 16:14

Quality Control - BLANK Data (Continued)

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Classical Chemistry Parameters (Continued)								
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X438184	20-Sep-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X439181	28-Sep-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X439035	24-Sep-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X439035	24-Sep-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X439035	24-Sep-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X439035	24-Sep-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X438217	24-Sep-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X438218	24-Sep-24	
SM 4500 S D	Sulfide	mg/L	<0.050	0.020	0.050	X439100	25-Sep-24	
Dissolved Classical Chemistry Parameters								
SM 3500 Cr B	Hexavalent Chromium	mg/L	<0.0050	0.0019	0.0050	X439004	23-Sep-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X438168	19-Sep-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X438168	19-Sep-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X438168	19-Sep-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X438168	19-Sep-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X438168	19-Sep-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X438168	19-Sep-24	

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	4.77	5.00	95.4	77 - 123	X438221	27-Sep-24	
EPA 245.1	Mercury	mg/L	0.00192	0.00200	95.8	85 - 115	X439068	26-Sep-24	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Barium	mg/L	0.972	1.00	97.2	85 - 115	X439104	27-Sep-24	
EPA 200.7	Beryllium	mg/L	0.969	1.00	96.9	85 - 115	X439104	27-Sep-24	
EPA 200.7	Boron	mg/L	0.942	1.00	94.2	85 - 115	X439104	27-Sep-24	
EPA 200.7	Calcium	mg/L	18.2	20.0	91	85 - 115	X439104	27-Sep-24	
EPA 200.7	Chromium	mg/L	0.950	1.00	95.0	85 - 115	X439104	27-Sep-24	
EPA 200.7	Iron	mg/L	9.81	10.0	98.1	85 - 115	X439104	27-Sep-24	
EPA 200.7	Magnesium	mg/L	18.8	20.0	94.2	85 - 115	X439104	27-Sep-24	
EPA 200.7	Manganese	mg/L	0.934	1.00	93.4	85 - 115	X439104	27-Sep-24	
EPA 200.7	Molybdenum	mg/L	0.966	1.00	96.6	85 - 115	X439104	27-Sep-24	
EPA 200.7	Nickel	mg/L	0.925	1.00	92.5	85 - 115	X439104	27-Sep-24	
EPA 200.7	Phosphorus	mg/L	0.978	1.00	97.8	85 - 115	X439104	27-Sep-24	
EPA 200.7	Potassium	mg/L	18.7	20.0	93.3	85 - 115	X439104	27-Sep-24	
EPA 200.7	Sodium	mg/L	17.4	19.0	91.6	85 - 115	X439104	27-Sep-24	
EPA 200.7	Zinc	mg/L	0.949	1.00	94.9	85 - 115	X439104	27-Sep-24	
EPA 200.8	Antimony	mg/L	0.0262	0.0250	105	85 - 115	X439105	03-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0255	0.0250	102	85 - 115	X439105	03-Oct-24	
EPA 200.8	Cadmium	mg/L	0.0248	0.0250	99.4	85 - 115	X439105	03-Oct-24	
EPA 200.8	Chromium	mg/L	0.0262	0.0250	105	85 - 115	X439105	03-Oct-24	
EPA 200.8	Copper	mg/L	0.0263	0.0250	105	85 - 115	X439105	03-Oct-24	
EPA 200.8	Lead	mg/L	0.0264	0.0250	106	85 - 115	X439105	03-Oct-24	
EPA 200.8	Selenium	mg/L	0.0253	0.0250	101	85 - 115	X439105	03-Oct-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.929	1.00	92.9	85 - 115	X439058	25-Sep-24	
EPA 200.7	Barium	mg/L	0.962	1.00	96.2	85 - 115	X439058	25-Sep-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0310**
Reported: 08-Oct-24 16:14

Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Dissolved) (Continued)									
EPA 200.7	Beryllium	mg/L	0.957	1.00	95.7	85 - 115	X439058	25-Sep-24	
EPA 200.7	Calcium	mg/L	18.6	20.0	93.1	85 - 115	X439058	25-Sep-24	
EPA 200.7	Iron	mg/L	9.50	10.0	95.0	85 - 115	X439058	25-Sep-24	
EPA 200.7	Magnesium	mg/L	18.1	20.0	90.3	85 - 115	X439058	25-Sep-24	
EPA 200.7	Manganese	mg/L	0.949	1.00	94.9	85 - 115	X439058	25-Sep-24	
EPA 200.7	Molybdenum	mg/L	0.957	1.00	95.7	85 - 115	X439058	25-Sep-24	
EPA 200.7	Nickel	mg/L	0.931	1.00	93.1	85 - 115	X439058	25-Sep-24	
EPA 200.7	Potassium	mg/L	18.9	20.0	94.4	85 - 115	X439058	25-Sep-24	
EPA 200.7	Sodium	mg/L	17.9	19.0	94.4	85 - 115	X439058	25-Sep-24	
EPA 200.7	Zinc	mg/L	0.945	1.00	94.5	85 - 115	X439058	25-Sep-24	
EPA 200.8	Antimony	mg/L	0.0249	0.0250	99.4	85 - 115	X440113	08-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0263	0.0250	105	85 - 115	X440113	08-Oct-24	
EPA 200.8	Cadmium	mg/L	0.0254	0.0250	102	85 - 115	X440113	08-Oct-24	
EPA 200.8	Chromium	mg/L	0.0265	0.0250	106	85 - 115	X440113	08-Oct-24	
EPA 200.8	Copper	mg/L	0.0264	0.0250	105	85 - 115	X440113	08-Oct-24	
EPA 200.8	Lead	mg/L	0.0252	0.0250	101	85 - 115	X440113	08-Oct-24	
EPA 200.8	Selenium	mg/L	0.0274	0.0250	110	85 - 115	X440113	08-Oct-24	
EPA 200.8	Silver	mg/L	0.0250	0.0250	99.8	85 - 115	X440113	08-Oct-24	
EPA 200.8	Thallium	mg/L	0.0251	0.0250	101	85 - 115	X440113	08-Oct-24	
EPA 200.8	Uranium	mg/L	0.0255	0.0250	102	85 - 115	X440113	08-Oct-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.101	0.100	101	90 - 110	X439153	30-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X439001	24-Sep-24	
EPA 350.1	Ammonia as N	mg/L	0.988	1.00	98.8	90 - 110	X439085	25-Sep-24	
EPA 351.2	TKN	mg/L	7.54	8.00	94.3	90 - 110	X439136	02-Oct-24	
OIA 1677	Cyanide (WAD)	mg/L	0.104	0.100	104	90 - 110	X438184	20-Sep-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	897	884	102	95.4 - 104	X439181	28-Sep-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.4	9.93	105	96.4 - 105	X439035	24-Sep-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	101	96.4 - 105	X439035	24-Sep-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X438218	24-Sep-24	
SM 4500 S D	Sulfide	mg/L	0.484	0.500	96.8	85 - 115	X439100	25-Sep-24	
Dissolved Classical Chemistry Parameters									
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0997	0.100	99.7	80 - 120	X439004	23-Sep-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.99	3.00	99.7	90 - 110	X438168	19-Sep-24	
EPA 300.0	Fluoride	mg/L	2.05	2.00	103	90 - 110	X438168	19-Sep-24	
EPA 300.0	Nitrate as N	mg/L	1.96	2.00	98.1	90 - 110	X438168	19-Sep-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.46	4.50	99.1	90 - 110	X438168	19-Sep-24	
EPA 300.0	Nitrite as N	mg/L	2.50	2.50	99.9	90 - 110	X438168	19-Sep-24	
EPA 300.0	Sulfate as SO4	mg/L	10.2	10.0	102	90 - 110	X438168	19-Sep-24	

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	478	478	0.0	20	X439181 - X4I0277-01	28-Sep-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	122	122	0.1	20	X439035 - X4I0310-03	24-Sep-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	122	122	0.1	20	X439035 - X4I0310-03	24-Sep-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X439035 - X4I0310-03	24-Sep-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X439035 - X4I0310-03	24-Sep-24	
SM 2540 C	Total Diss. Solids	mg/L	249	252	1.2	10	X438217 - X4I0310-02	24-Sep-24	
SM 2540 C	Total Diss. Solids	mg/L	424	431	1.6	10	X438217 - X4I0312-01	24-Sep-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	9.0	0.0	10	X438218 - X4I0310-02	24-Sep-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0310**
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Quality Control - DUPLICATE Data (Continued)

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters (Continued)									
SM 4500 H B	pH @19.9°C	pH Units	8.0	8.0	0.1	20	X439035 - X4I0310-03	24-Sep-24	
SM 4500-O-G	Dissolved Oxygen	mg/L	6.9	7.2	4.3	20	X440055 - X4I0310-01	01-Oct-24	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total)										
EPA 1631E	Mercury	ng/L	4.88	2.43	2.50	97.7	71 - 125	X438221 - X4I0274-01	27-Sep-24	
EPA 1631E	Mercury	ng/L	2.79	<0.500	2.50	101	71 - 125	X438221 - X4I0330-01	27-Sep-24	
EPA 245.1	Mercury	mg/L	0.00196	<0.000093	0.00200	97.8	70 - 130	X439068 - X4I0302-02	26-Sep-24	
EPA 245.1	Mercury	mg/L	0.00193	<0.000093	0.00200	96.4	70 - 130	X439068 - X4I0311-03	26-Sep-24	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	1.12	0.145	1.00	97.4	70 - 130	X439104 - X4I0324-07	27-Sep-24	D18
EPA 200.7	Beryllium	mg/L	0.995	<0.0200	1.00	99.5	70 - 130	X439104 - X4I0324-07	27-Sep-24	D18
EPA 200.7	Boron	mg/L	1.86	0.863	1.00	100	70 - 130	X439104 - X4I0324-07	27-Sep-24	D18
EPA 200.7	Calcium	mg/L	628	594	20.0	0.30R>S	70 - 130	X439104 - X4I0324-07	27-Sep-24	D18,M4
EPA 200.7	Chromium	mg/L	0.959	<0.0600	1.00	95.9	70 - 130	X439104 - X4I0324-07	27-Sep-24	D18
EPA 200.7	Iron	mg/L	9.98	<1.00	10.0	99.8	70 - 130	X439104 - X4I0324-07	27-Sep-24	D18
EPA 200.7	Magnesium	mg/L	47.4	25.9	20.0	107	70 - 130	X439104 - X4I0324-07	27-Sep-24	D18
EPA 200.7	Manganese	mg/L	0.950	<0.0800	1.00	95.0	70 - 130	X439104 - X4I0324-07	27-Sep-24	D18
EPA 200.7	Molybdenum	mg/L	1.38	0.376	1.00	101	70 - 130	X439104 - X4I0324-07	27-Sep-24	D18
EPA 200.7	Nickel	mg/L	0.942	<0.100	1.00	94.2	70 - 130	X439104 - X4I0324-07	27-Sep-24	D18
EPA 200.7	Phosphorus	mg/L	1.32	<0.500	1.00	101	70 - 130	X439104 - X4I0324-07	27-Sep-24	D18
EPA 200.7	Potassium	mg/L	58.9	38.8	20.0	101	70 - 130	X439104 - X4I0324-07	27-Sep-24	D18
EPA 200.7	Sodium	mg/L	2230	2150	19.0	0.30R>S	70 - 130	X439104 - X4I0324-07	27-Sep-24	D18,M4
EPA 200.7	Zinc	mg/L	1.00	<0.100	1.00	100	70 - 130	X439104 - X4I0324-07	27-Sep-24	D18
EPA 200.8	Antimony	mg/L	0.0266	<0.00100	0.0250	106	70 - 130	X439105 - X4I0274-02	03-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0265	<0.00100	0.0250	105	70 - 130	X439105 - X4I0274-02	03-Oct-24	
EPA 200.8	Cadmium	mg/L	0.0254	<0.000100	0.0250	102	70 - 130	X439105 - X4I0274-02	03-Oct-24	
EPA 200.8	Chromium	mg/L	0.0263	<0.00100	0.0250	103	70 - 130	X439105 - X4I0274-02	03-Oct-24	
EPA 200.8	Copper	mg/L	0.0273	0.00140	0.0250	103	70 - 130	X439105 - X4I0274-02	03-Oct-24	
EPA 200.8	Lead	mg/L	0.0260	<0.00020	0.0250	103	70 - 130	X439105 - X4I0274-02	03-Oct-24	
EPA 200.8	Selenium	mg/L	0.0253	<0.00100	0.0250	100	70 - 130	X439105 - X4I0274-02	03-Oct-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.986	<0.080	1.00	98.6	70 - 130	X439058 - X4I0310-01	25-Sep-24	
EPA 200.7	Aluminum	mg/L	0.973	<0.080	1.00	97.3	70 - 130	X439058 - X4I0337-16	25-Sep-24	
EPA 200.7	Barium	mg/L	1.09	0.121	1.00	96.6	70 - 130	X439058 - X4I0310-01	25-Sep-24	
EPA 200.7	Barium	mg/L	1.02	0.0406	1.00	97.5	70 - 130	X439058 - X4I0337-16	25-Sep-24	
EPA 200.7	Beryllium	mg/L	0.960	<0.00200	1.00	96.0	70 - 130	X439058 - X4I0310-01	25-Sep-24	
EPA 200.7	Beryllium	mg/L	0.966	<0.00200	1.00	96.6	70 - 130	X439058 - X4I0337-16	25-Sep-24	
EPA 200.7	Calcium	mg/L	63.9	45.3	20.0	93.1	70 - 130	X439058 - X4I0310-01	25-Sep-24	
EPA 200.7	Calcium	mg/L	45.7	26.1	20.0	97.9	70 - 130	X439058 - X4I0337-16	25-Sep-24	
EPA 200.7	Iron	mg/L	9.91	0.257	10.0	96.5	70 - 130	X439058 - X4I0310-01	25-Sep-24	
EPA 200.7	Iron	mg/L	9.60	<0.100	10.0	96.0	70 - 130	X439058 - X4I0337-16	25-Sep-24	
EPA 200.7	Magnesium	mg/L	29.7	10.7	20.0	95.1	70 - 130	X439058 - X4I0310-01	25-Sep-24	
EPA 200.7	Magnesium	mg/L	22.8	3.57	20.0	96.2	70 - 130	X439058 - X4I0337-16	25-Sep-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0310**
Reported: 08-Oct-24 16:14

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Manganese	mg/L	1.59	0.657	1.00	93.5	70 - 130	X439058 - X4I0310-01	25-Sep-24	
EPA 200.7	Manganese	mg/L	0.955	<0.0080	1.00	95.5	70 - 130	X439058 - X4I0337-16	25-Sep-24	
EPA 200.7	Molybdenum	mg/L	0.975	<0.0080	1.00	97.5	70 - 130	X439058 - X4I0310-01	25-Sep-24	
EPA 200.7	Molybdenum	mg/L	0.977	<0.0080	1.00	97.0	70 - 130	X439058 - X4I0337-16	25-Sep-24	
EPA 200.7	Nickel	mg/L	0.921	<0.0100	1.00	92.1	70 - 130	X439058 - X4I0310-01	25-Sep-24	
EPA 200.7	Nickel	mg/L	0.928	<0.0100	1.00	92.8	70 - 130	X439058 - X4I0337-16	25-Sep-24	
EPA 200.7	Potassium	mg/L	20.5	1.18	20.0	96.6	70 - 130	X439058 - X4I0310-01	25-Sep-24	
EPA 200.7	Potassium	mg/L	20.7	1.46	20.0	96.2	70 - 130	X439058 - X4I0337-16	25-Sep-24	
EPA 200.7	Sodium	mg/L	30.7	12.6	19.0	95.2	70 - 130	X439058 - X4I0310-01	25-Sep-24	
EPA 200.7	Sodium	mg/L	79.1	62.7	19.0	86.2	70 - 130	X439058 - X4I0337-16	25-Sep-24	
EPA 200.7	Zinc	mg/L	0.975	<0.0100	1.00	97.5	70 - 130	X439058 - X4I0310-01	25-Sep-24	
EPA 200.7	Zinc	mg/L	0.996	<0.0100	1.00	99.6	70 - 130	X439058 - X4I0337-16	25-Sep-24	
EPA 200.8	Antimony	mg/L	0.0250	<0.00100	0.0250	99.9	70 - 130	X440113 - X4I0330-02	08-Oct-24	
EPA 200.8	Antimony	mg/L	0.0256	<0.00100	0.0250	103	70 - 130	X440113 - X4I0331-01	08-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0261	<0.00100	0.0250	105	70 - 130	X440113 - X4I0330-02	08-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0263	<0.00100	0.0250	104	70 - 130	X440113 - X4I0331-01	08-Oct-24	
EPA 200.8	Cadmium	mg/L	0.0247	<0.000100	0.0250	98.8	70 - 130	X440113 - X4I0330-02	08-Oct-24	
EPA 200.8	Cadmium	mg/L	0.0257	<0.000100	0.0250	103	70 - 130	X440113 - X4I0331-01	08-Oct-24	
EPA 200.8	Chromium	mg/L	0.0264	<0.00100	0.0250	103	70 - 130	X440113 - X4I0330-02	08-Oct-24	
EPA 200.8	Chromium	mg/L	0.0260	<0.00100	0.0250	103	70 - 130	X440113 - X4I0331-01	08-Oct-24	
EPA 200.8	Copper	mg/L	0.0277	0.00079	0.0250	108	70 - 130	X440113 - X4I0330-02	08-Oct-24	
EPA 200.8	Copper	mg/L	0.0260	<0.00040	0.0250	102	70 - 130	X440113 - X4I0331-01	08-Oct-24	
EPA 200.8	Lead	mg/L	0.0248	<0.00020	0.0250	99.2	70 - 130	X440113 - X4I0330-02	08-Oct-24	
EPA 200.8	Lead	mg/L	0.0248	<0.00020	0.0250	99.4	70 - 130	X440113 - X4I0331-01	08-Oct-24	
EPA 200.8	Selenium	mg/L	0.0260	<0.00100	0.0250	103	70 - 130	X440113 - X4I0330-02	08-Oct-24	
EPA 200.8	Selenium	mg/L	0.0269	<0.00100	0.0250	105	70 - 130	X440113 - X4I0331-01	08-Oct-24	
EPA 200.8	Silver	mg/L	0.0242	<0.00008	0.0250	96.8	70 - 130	X440113 - X4I0330-02	08-Oct-24	
EPA 200.8	Silver	mg/L	0.0247	<0.00008	0.0250	99.0	70 - 130	X440113 - X4I0331-01	08-Oct-24	
EPA 200.8	Thallium	mg/L	0.0248	<0.000200	0.0250	99.3	70 - 130	X440113 - X4I0330-02	08-Oct-24	
EPA 200.8	Thallium	mg/L	0.0251	<0.000200	0.0250	100	70 - 130	X440113 - X4I0331-01	08-Oct-24	
EPA 200.8	Uranium	mg/L	0.0254	<0.000100	0.0250	101	70 - 130	X440113 - X4I0330-02	08-Oct-24	
EPA 200.8	Uranium	mg/L	0.0252	<0.000100	0.0250	101	70 - 130	X440113 - X4I0331-01	08-Oct-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0980	<0.0050	0.100	98.0	79 - 121	X439153 - X4I0262-01	30-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.104	<0.0050	0.100	104	90 - 110	X439001 - X4I0262-01	24-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.588	0.454	0.100	0.30R>S	90 - 110	X439001 - X4I0211-01	24-Sep-24	M4
EPA 350.1	Ammonia as N	mg/L	1.07	<0.030	1.00	106	90 - 110	X439085 - X4I0202-03	25-Sep-24	
EPA 350.1	Ammonia as N	mg/L	1.04	<0.030	1.00	104	90 - 110	X439085 - X4I0202-04	25-Sep-24	
EPA 351.2	TKN	mg/L	8.19	<0.50	8.00	97.7	90 - 110	X439136 - X4I0310-01	02-Oct-24	
EPA 351.2	TKN	mg/L	8.13	<0.50	8.00	97.4	90 - 110	X439136 - X4I0310-02	02-Oct-24	
OIA 1677	Cyanide (WAD)	mg/L	0.101	<0.0050	0.100	99.0	82 - 118	X438184 - X4I0262-01	20-Sep-24	
SM 4500 S D	Sulfide	mg/L	0.213	<0.050	0.200	107	75 - 125	X439100 - X4I0310-03	25-Sep-24	
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0204	<0.0050	0.0200	102	75 - 125	X439004 - X4I0138-01	23-Sep-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.04	1.07	3.00	99.1	90 - 110	X438168 - X4I0274-04	19-Sep-24	
EPA 300.0	Chloride	mg/L	4.05	1.07	3.00	99.2	90 - 110	X438168 - X4I0274-05	19-Sep-24	
EPA 300.0	Fluoride	mg/L	2.00	<0.100	2.00	98.6	90 - 110	X438168 - X4I0274-04	19-Sep-24	

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Newmont - Cripple Creek & Victor
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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0310**
Reported: 08-Oct-24 16:14

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Anions by Ion Chromatography (Continued)										
EPA 300.0	Fluoride	mg/L	2.00	<0.100	2.00	99.0	90 - 110	X438168 - X4I0274-05	19-Sep-24	
EPA 300.0	Nitrate as N	mg/L	1.96	<0.050	2.00	96.6	90 - 110	X438168 - X4I0274-04	19-Sep-24	
EPA 300.0	Nitrate as N	mg/L	1.97	<0.050	2.00	96.9	90 - 110	X438168 - X4I0274-05	19-Sep-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.96	<0.100	4.00	98.9	90 - 110	X438168 - X4I0274-04	19-Sep-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.97	<0.100	4.00	99.3	90 - 110	X438168 - X4I0274-05	19-Sep-24	
EPA 300.0	Nitrite as N	mg/L	1.99	<0.050	2.00	99.5	90 - 110	X438168 - X4I0274-04	19-Sep-24	
EPA 300.0	Nitrite as N	mg/L	2.01	<0.050	2.00	100	90 - 110	X438168 - X4I0274-05	19-Sep-24	
EPA 300.0	Sulfate as SO4	mg/L	12.2	2.33	10.0	98.5	90 - 110	X438168 - X4I0274-04	19-Sep-24	
EPA 300.0	Sulfate as SO4	mg/L	12.2	2.31	10.0	98.9	90 - 110	X438168 - X4I0274-05	19-Sep-24	

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	2.76	2.79	2.50	0.9	24	100	X438221 - X4I0330-01	
EPA 1631E	Mercury	ng/L	4.85	4.88	2.50	0.5	24	96.8	X438221 - X4I0274-01	
EPA 245.1	Mercury	mg/L	0.00184	0.00196	0.00200	6.4	20	91.8	X439068 - X4I0302-02	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	1.10	1.12	1.00	1.5	20	95.7	X439104 - X4I0324-07	D18
EPA 200.7	Beryllium	mg/L	0.960	0.995	1.00	3.6	20	96.0	X439104 - X4I0324-07	D18
EPA 200.7	Boron	mg/L	1.81	1.86	1.00	2.7	20	95.1	X439104 - X4I0324-07	D18
EPA 200.7	Calcium	mg/L	618	628	20.0	2.0	20	120	X439104 - X4I0324-07	D18
EPA 200.7	Chromium	mg/L	0.934	0.959	1.00	2.6	20	93.4	X439104 - X4I0324-07	D18
EPA 200.7	Iron	mg/L	9.77	9.98	10.0	2.1	20	97.7	X439104 - X4I0324-07	D18
EPA 200.7	Magnesium	mg/L	46.0	47.4	20.0	3.0	20	100	X439104 - X4I0324-07	D18
EPA 200.7	Manganese	mg/L	0.923	0.950	1.00	2.9	20	92.3	X439104 - X4I0324-07	D18
EPA 200.7	Molybdenum	mg/L	1.34	1.38	1.00	3.2	20	96.4	X439104 - X4I0324-07	D18
EPA 200.7	Nickel	mg/L	0.912	0.942	1.00	3.3	20	91.2	X439104 - X4I0324-07	D18
EPA 200.7	Phosphorus	mg/L	1.17	1.32	1.00	12.2	20	85.6	X439104 - X4I0324-07	D18
EPA 200.7	Potassium	mg/L	58.4	58.9	20.0	1.0	20	97.8	X439104 - X4I0324-07	D18
EPA 200.7	Sodium	mg/L	2200	2230	19.0	1.6	20	0.30R>S	X439104 - X4I0324-07	D18,M4
EPA 200.7	Zinc	mg/L	0.971	1.00	1.00	3.4	20	97.1	X439104 - X4I0324-07	D18
EPA 200.8	Antimony	mg/L	0.0256	0.0266	0.0250	3.8	20	102	X439105 - X4I0274-02	
EPA 200.8	Arsenic	mg/L	0.0256	0.0265	0.0250	3.6	20	101	X439105 - X4I0274-02	
EPA 200.8	Cadmium	mg/L	0.0247	0.0254	0.0250	2.8	20	98.8	X439105 - X4I0274-02	
EPA 200.8	Chromium	mg/L	0.0258	0.0263	0.0250	1.7	20	101	X439105 - X4I0274-02	
EPA 200.8	Copper	mg/L	0.0268	0.0273	0.0250	1.5	20	102	X439105 - X4I0274-02	
EPA 200.8	Lead	mg/L	0.0258	0.0260	0.0250	0.9	20	102	X439105 - X4I0274-02	
EPA 200.8	Selenium	mg/L	0.0259	0.0253	0.0250	2.3	20	102	X439105 - X4I0274-02	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.988	0.986	1.00	0.2	20	98.8	X439058 - X4I0310-01	
EPA 200.7	Barium	mg/L	1.08	1.09	1.00	0.3	20	96.3	X439058 - X4I0310-01	
EPA 200.7	Beryllium	mg/L	0.959	0.960	1.00	0.1	20	95.9	X439058 - X4I0310-01	
EPA 200.7	Calcium	mg/L	63.8	63.9	20.0	0.2	20	92.4	X439058 - X4I0310-01	
EPA 200.7	Iron	mg/L	9.88	9.91	10.0	0.3	20	96.2	X439058 - X4I0310-01	
EPA 200.7	Magnesium	mg/L	29.7	29.7	20.0	0.1	20	95.0	X439058 - X4I0310-01	
EPA 200.7	Manganese	mg/L	1.58	1.59	1.00	0.6	20	92.7	X439058 - X4I0310-01	
EPA 200.7	Molybdenum	mg/L	0.966	0.975	1.00	0.9	20	96.6	X439058 - X4I0310-01	
EPA 200.7	Nickel	mg/L	0.913	0.921	1.00	0.9	20	91.3	X439058 - X4I0310-01	
EPA 200.7	Potassium	mg/L	20.5	20.5	20.0	0.2	20	96.4	X439058 - X4I0310-01	
EPA 200.7	Sodium	mg/L	30.7	30.7	19.0	0.2	20	94.9	X439058 - X4I0310-01	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0310**
Reported: 08-Oct-24 16:14

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Zinc	mg/L	0.975	0.975	1.00	0.0	20	97.5	X439058 - X4I0310-01	
EPA 200.8	Antimony	mg/L	0.0250	0.0250	0.0250	0.1	20	100	X440113 - X4I0330-02	
EPA 200.8	Arsenic	mg/L	0.0257	0.0261	0.0250	1.9	20	103	X440113 - X4I0330-02	
EPA 200.8	Cadmium	mg/L	0.0251	0.0247	0.0250	1.6	20	100	X440113 - X4I0330-02	
EPA 200.8	Chromium	mg/L	0.0254	0.0264	0.0250	3.9	20	99.1	X440113 - X4I0330-02	
EPA 200.8	Copper	mg/L	0.0265	0.0277	0.0250	4.5	20	103	X440113 - X4I0330-02	
EPA 200.8	Lead	mg/L	0.0251	0.0248	0.0250	1.2	20	100	X440113 - X4I0330-02	
EPA 200.8	Selenium	mg/L	0.0246	0.0260	0.0250	5.7	20	96.8	X440113 - X4I0330-02	
EPA 200.8	Silver	mg/L	0.0241	0.0242	0.0250	0.3	20	96.4	X440113 - X4I0330-02	
EPA 200.8	Thallium	mg/L	0.0253	0.0248	0.0250	1.8	20	101	X440113 - X4I0330-02	
EPA 200.8	Uranium	mg/L	0.0255	0.0254	0.0250	0.4	20	102	X440113 - X4I0330-02	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.102	0.0980	0.100	4.0	11	102	X439153 - X4I0262-01	
EPA 335.4	Cyanide (total)	mg/L	0.585	0.588	0.100	0.6	20	0.30R>S	X439001 - X4I0211-01	M4
EPA 350.1	Ammonia as N	mg/L	1.07	1.07	1.00	0.3	20	106	X439085 - X4I0202-03	
EPA 351.2	TKN	mg/L	8.22	8.19	8.00	0.4	20	98.1	X439136 - X4I0310-01	
OIA 1677	Cyanide (WAD)	mg/L	0.108	0.101	0.100	6.7	11	106	X438184 - X4I0262-01	
SM 4500 S D	Sulfide	mg/L	0.198	0.213	0.200	7.3	20	99.0	X439100 - X4I0310-03	
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0207	0.0204	0.0200	1.3	20	103	X439004 - X4I0138-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.09	4.04	3.00	1.2	20	101	X438168 - X4I0274-04	
EPA 300.0	Fluoride	mg/L	2.02	2.00	2.00	1.1	20	99.7	X438168 - X4I0274-04	
EPA 300.0	Nitrate as N	mg/L	1.99	1.96	2.00	1.5	20	98.0	X438168 - X4I0274-04	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.01	3.96	4.00	1.4	20	100	X438168 - X4I0274-04	
EPA 300.0	Nitrite as N	mg/L	2.02	1.99	2.00	1.4	20	101	X438168 - X4I0274-04	
EPA 300.0	Sulfate as SO4	mg/L	12.3	12.2	10.0	0.8	20	99.4	X438168 - X4I0274-04	

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4I0310**
Victor, CO 80860	Reported: 08-Oct-24 16:14

Notes and Definitions

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.
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.
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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Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0290**
Reported: 01-Aug-24 16:11

Client Sample ID: **CRMW-105G**
SVL Sample ID: **X4G0290-03 (Ground Water)**

Sampled: 17-Jul-24 11:18
Received: 18-Jul-24
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**	19.4	mg/L	0.100	0.069		X430082	NMS	07/26/24 13:38	
EPA 200.7	**Magnesium**	3.61	mg/L	0.500	0.090		X430082	NMS	07/26/24 13:38	
EPA 200.7	**Potassium**	2.49	mg/L	0.50	0.18		X430082	NMS	07/26/24 13:38	
SM 2340 B	**Hardness (as CaCO3)**	62.6	mg/L	2.31	0.543		N/A		07/26/24 13:38	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	0.083	mg/L	0.080	0.054		X430053	NMS	07/23/24 11:32	
EPA 200.7	**Barium**	0.0065	mg/L	0.0020	0.0019		X430053	NMS	07/23/24 11:32	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X430053	NMS	07/23/24 11:32	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X430053	NMS	07/23/24 11:32	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X430053	NMS	07/23/24 11:32	
EPA 200.7	**Calcium**	18.6	mg/L	0.100	0.069		X430053	NMS	07/23/24 11:32	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X430053	NMS	07/23/24 11:32	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X430053	NMS	07/23/24 11:32	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X430053	NMS	07/23/24 11:32	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X430053	NMS	07/23/24 11:32	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X430053	NMS	07/23/24 11:32	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X430053	NMS	07/23/24 11:32	
EPA 200.7	**Magnesium**	3.43	mg/L	0.500	0.090		X430053	NMS	07/23/24 11:32	
EPA 200.7	**Manganese**	0.0087	mg/L	0.0080	0.0034		X430053	NMS	07/23/24 11:32	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X430053	NMS	07/23/24 11:32	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X430053	NMS	07/23/24 11:32	
EPA 200.7	**Potassium**	2.29	mg/L	0.50	0.18		X430053	NMS	07/23/24 11:32	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X430053	NMS	07/23/24 11:32	
EPA 200.7	**Sodium**	7.15	mg/L	0.50	0.12		X430053	NMS	07/23/24 11:32	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X430053	NMS	07/23/24 11:32	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X430053	NMS	07/23/24 11:32	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X429205	SMU	07/23/24 16:24	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X429205	SMU	07/23/24 16:24	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X429205	SMU	07/23/24 16:24	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X429205	SMU	07/23/24 16:24	
EPA 200.8	**Uranium**	0.000393	mg/L	0.000100	0.000052		X429205	SMU	07/23/24 16:24	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X429236	MAC	07/29/24 17:07	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X430068	DD	07/25/24 12:01	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X430014	DD	07/23/24 16:59	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X430056	DD	07/24/24 13:20	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X430078	DD	07/23/24 16:44	
SM 2310 B	**Acidity to pH 8.3**	-34.7	mg/L as CaCO3	10.0			X430171	MWD	07/26/24 11:22	
SM 2320 B	**Total Alkalinity**	41.6	mg/L as CaCO3	1.0			X430051	MWD	07/23/24 12:39	
SM 2320 B	**Bicarbonate**	41.6	mg/L as CaCO3	1.0			X430051	MWD	07/23/24 12:39	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X430051	MWD	07/23/24 12:39	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X430051	MWD	07/23/24 12:39	
SM 2540 C	**Total Diss. Solids**	111	mg/L	10			X429195	TJL	07/22/24 12:50	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X429196	TJL	07/22/24 14:00	
SM 4500 H B	**pH @22.0°C**	6.8	pH Units				X430051	MWD	07/23/24 12:39	H5

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0290**
Reported: 01-Aug-24 16:11

Client Sample ID: **CRMW-105G**
SVL Sample ID: **X4G0290-03 (Ground Water)**

Sampled: 17-Jul-24 11:18
Received: 18-Jul-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	5.77	mg/L	0.20	0.02		X429143	KAG	07/18/24 12:54	
EPA 300.0	**Fluoride**	3.52	mg/L	0.100	0.017		X429143	KAG	07/18/24 12:54	M1
EPA 300.0	**Nitrate as N**	0.102	mg/L	0.050	0.013		X429143	KAG	07/18/24 12:54	
EPA 300.0	**Nitrate+Nitrite as N**	0.102	mg/L	0.100	0.044		X429143	KAG	07/18/24 12:54	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X429143	KAG	07/18/24 12:54	
EPA 300.0	**Sulfate as SO4**	33.0	mg/L	0.30	0.18		X429143	KAG	07/18/24 12:54	

Cation/Anion Balance and TDS Ratios

Cation Sum: 1.60 meq/L Anion Sum: 1.87 meq/L C/A Balance: -7.99 % Calculated TDS: 100 TDS/cTDS: 1.11

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

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Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0290**
Reported: 01-Aug-24 16:11

Client Sample ID: **CCVB-0717**
SVL Sample ID: **X4G0290-07 (Ground Water)**

Sampled: 17-Jul-24 11:33
Received: 18-Jul-24
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	< 0.100	mg/L	0.100	0.069		X430082	NMS	07/26/24 14:06	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X430082	NMS	07/26/24 14:06	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X430082	NMS	07/26/24 14:06	
SM 2340 B	Hardness (as CaCO3)	< 2.31	mg/L	2.31	0.543		N/A		07/26/24 14:06	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X430053	NMS	07/23/24 12:49	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X430053	NMS	07/23/24 12:49	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X430053	NMS	07/23/24 12:49	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X430053	NMS	07/23/24 12:49	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X430053	NMS	07/23/24 12:49	
EPA 200.7	Calcium	< 0.100	mg/L	0.100	0.069		X430053	NMS	07/23/24 12:49	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X430053	NMS	07/23/24 12:49	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X430053	NMS	07/23/24 12:49	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X430053	NMS	07/23/24 12:49	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X430053	NMS	07/23/24 12:49	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X430053	NMS	07/23/24 12:49	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X430053	NMS	07/23/24 12:49	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X430053	NMS	07/23/24 12:49	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X430053	NMS	07/23/24 12:49	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X430053	NMS	07/23/24 12:49	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X430053	NMS	07/23/24 12:49	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X430053	NMS	07/23/24 12:49	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X430053	NMS	07/23/24 12:49	
EPA 200.7	Sodium	< 0.50	mg/L	0.50	0.12		X430053	NMS	07/23/24 12:49	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X430053	NMS	07/23/24 12:49	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X430053	NMS	07/23/24 12:49	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X429205	SMU	07/23/24 16:36	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X429205	SMU	07/23/24 16:36	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X429205	SMU	07/23/24 16:36	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X429205	SMU	07/23/24 16:36	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X429205	SMU	07/23/24 16:36	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X429236	MAC	07/29/24 17:15	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X430068	DD	07/25/24 12:15	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X430014	DD	07/23/24 17:09	
EPA 350.1	**Ammonia as N**	0.041	mg/L	0.030	0.013		X430056	DD	07/24/24 13:38	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X430078	DD	07/23/24 16:55	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X430171	MWD	07/26/24 11:22	
SM 2320 B	**Total Alkalinity**	3.2	mg/L as CaCO3	1.0			X430051	MWD	07/23/24 12:59	
SM 2320 B	**Bicarbonate**	3.2	mg/L as CaCO3	1.0			X430051	MWD	07/23/24 12:59	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X430051	MWD	07/23/24 12:59	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X430051	MWD	07/23/24 12:59	
SM 2540 C	Total Diss. Solids	< 10	mg/L	10			X429195	TJL	07/22/24 12:50	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X429196	TJL	07/22/24 14:00	
SM 4500 H B	**pH @23.3°C**	6.3	pH Units				X430051	MWD	07/23/24 12:59	H5

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0290**
Reported: 01-Aug-24 16:11

Client Sample ID: **CCVB-0717**
SVL Sample ID: **X4G0290-07 (Ground Water)**

Sampled: 17-Jul-24 11:33
Received: 18-Jul-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	0.35	mg/L	0.20	0.02		X429143	KAG	07/18/24 14:45	
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.017		X429143	KAG	07/18/24 14:45	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X429143	KAG	07/18/24 14:45	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X429143	KAG	07/18/24 14:45	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X429143	KAG	07/18/24 14:45	
EPA 300.0	Sulfate as SO4	< 0.30	mg/L	0.30	0.18		X429143	KAG	07/18/24 14:45	

Cation/Anion Balance and TDS Ratios

Cation Sum: 0.04 meq/L Anion Sum: 0.08 meq/L C/A Balance: -39.13 % Calculated TDS: 2 TDS/cTDS: 0.00

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0290**
Reported: 01-Aug-24 16:11

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total)								
EPA 245.1	Mercury	mg/L	<0.000093	0.000093	0.000200	X429144	23-Jul-24	U
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X430082	26-Jul-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X430082	26-Jul-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X430082	26-Jul-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X430082	26-Jul-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X430082	26-Jul-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X430082	26-Jul-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X430082	26-Jul-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X430082	26-Jul-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X430082	26-Jul-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X430082	26-Jul-24	
EPA 200.7	Phosphorus	mg/L	<0.050	0.013	0.050	X430082	26-Jul-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X430082	26-Jul-24	
EPA 200.7	Sodium	mg/L	0.12	0.12	0.50	X430082	26-Jul-24	J
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X430082	26-Jul-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X430088	25-Jul-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X430088	25-Jul-24	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X430088	25-Jul-24	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X430088	25-Jul-24	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X430088	25-Jul-24	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X430088	25-Jul-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X430088	25-Jul-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X430053	23-Jul-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X430053	23-Jul-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X430053	23-Jul-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X430053	23-Jul-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X430053	23-Jul-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X430053	23-Jul-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X430053	23-Jul-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X430053	23-Jul-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X430053	23-Jul-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X430053	23-Jul-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X430053	23-Jul-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X430053	23-Jul-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X430053	23-Jul-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X430053	23-Jul-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X430053	23-Jul-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X430053	23-Jul-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X430053	23-Jul-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X430053	23-Jul-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X430053	23-Jul-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X430053	23-Jul-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X430053	23-Jul-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X429205	23-Jul-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X429205	23-Jul-24	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X429205	23-Jul-24	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X429205	23-Jul-24	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X429205	23-Jul-24	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X429205	23-Jul-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X429205	23-Jul-24	
EPA 200.8	Silver	mg/L	<0.00008	0.000061	0.00008	X429205	23-Jul-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X429205	23-Jul-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X429205	23-Jul-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0290**
Reported: 01-Aug-24 16:11

Quality Control - BLANK Data (Continued)

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X429236	29-Jul-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X430068	25-Jul-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X430014	23-Jul-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X430056	24-Jul-24	
EPA 351.2	TKN	mg/L	<0.50	0.31	0.50	X430034	25-Jul-24	B10
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X430078	23-Jul-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X430171	26-Jul-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X430051	23-Jul-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X430051	23-Jul-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X430051	23-Jul-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X430051	23-Jul-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X429195	22-Jul-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X431115	01-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X429196	22-Jul-24	
SM 4500 S D	Sulfide	mg/L	<0.050	0.020	0.050	X429199	22-Jul-24	
Dissolved Classical Chemistry Parameters								
SM 3500 Cr B	Hexavalent Chromium	mg/L	<0.0050	0.0019	0.0050	X429124	18-Jul-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X429143	18-Jul-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X429143	18-Jul-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X429143	18-Jul-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X429143	18-Jul-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X429143	18-Jul-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X429143	18-Jul-24	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)									
EPA 245.1	Mercury	mg/L	0.00228	0.00200	114	85 - 115	X429144	23-Jul-24	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Barium	mg/L	1.00	1.00	100	85 - 115	X430082	26-Jul-24	
EPA 200.7	Beryllium	mg/L	0.971	1.00	97.1	85 - 115	X430082	26-Jul-24	
EPA 200.7	Boron	mg/L	0.991	1.00	99.1	85 - 115	X430082	26-Jul-24	
EPA 200.7	Calcium	mg/L	19.4	20.0	97	85 - 115	X430082	26-Jul-24	
EPA 200.7	Chromium	mg/L	0.990	1.00	99.0	85 - 115	X430082	26-Jul-24	
EPA 200.7	Iron	mg/L	9.86	10.0	98.6	85 - 115	X430082	26-Jul-24	
EPA 200.7	Magnesium	mg/L	20.2	20.0	101	85 - 115	X430082	26-Jul-24	
EPA 200.7	Manganese	mg/L	0.972	1.00	97.2	85 - 115	X430082	26-Jul-24	
EPA 200.7	Molybdenum	mg/L	0.993	1.00	99.3	85 - 115	X430082	26-Jul-24	
EPA 200.7	Nickel	mg/L	0.942	1.00	94.2	85 - 115	X430082	26-Jul-24	
EPA 200.7	Phosphorus	mg/L	1.02	1.00	102	85 - 115	X430082	26-Jul-24	
EPA 200.7	Potassium	mg/L	19.8	20.0	99.2	85 - 115	X430082	26-Jul-24	
EPA 200.7	Sodium	mg/L	18.6	19.0	98.1	85 - 115	X430082	26-Jul-24	
EPA 200.7	Zinc	mg/L	0.960	1.00	96.0	85 - 115	X430082	26-Jul-24	
EPA 200.8	Antimony	mg/L	0.0242	0.0250	96.8	85 - 115	X430088	25-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0237	0.0250	95.0	85 - 115	X430088	25-Jul-24	
EPA 200.8	Cadmium	mg/L	0.0233	0.0250	93.2	85 - 115	X430088	25-Jul-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0290**
Reported: 01-Aug-24 16:11

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 200.8	Chromium	mg/L	0.0239	0.0250	95.4	85 - 115	X430088	25-Jul-24	
EPA 200.8	Copper	mg/L	0.0244	0.0250	97.6	85 - 115	X430088	25-Jul-24	
EPA 200.8	Lead	mg/L	0.0235	0.0250	93.8	85 - 115	X430088	25-Jul-24	
EPA 200.8	Selenium	mg/L	0.0243	0.0250	97.4	85 - 115	X430088	25-Jul-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.993	1.00	99.3	85 - 115	X430053	23-Jul-24	
EPA 200.7	Barium	mg/L	1.01	1.00	101	85 - 115	X430053	23-Jul-24	
EPA 200.7	Beryllium	mg/L	1.04	1.00	104	85 - 115	X430053	23-Jul-24	
EPA 200.7	Boron	mg/L	1.03	1.00	103	85 - 115	X430053	23-Jul-24	
EPA 200.7	Cadmium	mg/L	1.01	1.00	101	85 - 115	X430053	23-Jul-24	
EPA 200.7	Calcium	mg/L	19.9	20.0	99.7	85 - 115	X430053	23-Jul-24	
EPA 200.7	Chromium	mg/L	1.03	1.00	103	85 - 115	X430053	23-Jul-24	
EPA 200.7	Cobalt	mg/L	0.996	1.00	99.6	85 - 115	X430053	23-Jul-24	
EPA 200.7	Copper	mg/L	1.03	1.00	103	85 - 115	X430053	23-Jul-24	
EPA 200.7	Iron	mg/L	10.1	10.0	101	85 - 115	X430053	23-Jul-24	
EPA 200.7	Lead	mg/L	0.995	1.00	99.5	85 - 115	X430053	23-Jul-24	
EPA 200.7	Lithium	mg/L	0.982	1.00	98.2	85 - 115	X430053	23-Jul-24	
EPA 200.7	Magnesium	mg/L	20.0	20.0	100	85 - 115	X430053	23-Jul-24	
EPA 200.7	Manganese	mg/L	1.01	1.00	101	85 - 115	X430053	23-Jul-24	
EPA 200.7	Molybdenum	mg/L	1.03	1.00	103	85 - 115	X430053	23-Jul-24	
EPA 200.7	Nickel	mg/L	0.996	1.00	99.6	85 - 115	X430053	23-Jul-24	
EPA 200.7	Potassium	mg/L	20.3	20.0	102	85 - 115	X430053	23-Jul-24	
EPA 200.7	Silver	mg/L	0.0491	0.0500	98.2	85 - 115	X430053	23-Jul-24	
EPA 200.7	Sodium	mg/L	19.1	19.0	100	85 - 115	X430053	23-Jul-24	
EPA 200.7	Vanadium	mg/L	1.03	1.00	103	85 - 115	X430053	23-Jul-24	
EPA 200.7	Zinc	mg/L	1.02	1.00	102	85 - 115	X430053	23-Jul-24	
EPA 200.8	Antimony	mg/L	0.0236	0.0250	94.6	85 - 115	X429205	23-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0242	0.0250	96.7	85 - 115	X429205	23-Jul-24	
EPA 200.8	Cadmium	mg/L	0.0233	0.0250	93.2	85 - 115	X429205	23-Jul-24	
EPA 200.8	Chromium	mg/L	0.0237	0.0250	94.7	85 - 115	X429205	23-Jul-24	
EPA 200.8	Copper	mg/L	0.0236	0.0250	94.3	85 - 115	X429205	23-Jul-24	
EPA 200.8	Lead	mg/L	0.0237	0.0250	95.0	85 - 115	X429205	23-Jul-24	
EPA 200.8	Selenium	mg/L	0.0240	0.0250	96.2	85 - 115	X429205	23-Jul-24	
EPA 200.8	Silver	mg/L	0.0246	0.0250	98.4	85 - 115	X429205	23-Jul-24	
EPA 200.8	Thallium	mg/L	0.0235	0.0250	94.2	85 - 115	X429205	23-Jul-24	
EPA 200.8	Uranium	mg/L	0.0236	0.0250	94.4	85 - 115	X429205	23-Jul-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00209	0.00200	104	85 - 115	X429236	29-Jul-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.107	0.100	107	90 - 110	X430068	25-Jul-24	
EPA 335.4	Cyanide (total)	mg/L	0.0990	0.100	99.0	90 - 110	X430014	23-Jul-24	
EPA 350.1	Ammonia as N	mg/L	1.02	1.00	102	90 - 110	X430056	24-Jul-24	
EPA 351.2	TKN	mg/L	7.64	8.00	95.5	90 - 110	X430034	25-Jul-24	B10
OIA 1677	Cyanide (WAD)	mg/L	0.106	0.100	106	90 - 110	X430078	23-Jul-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	873	884	98.7	95.4 - 104	X430171	26-Jul-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.1	9.93	102	96.4 - 105	X430051	23-Jul-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	102	99.3	102	96.4 - 105	X430051	23-Jul-24	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X429196	22-Jul-24	
SM 4500 S D	Sulfide	mg/L	0.479	0.500	95.8	85 - 115	X429199	22-Jul-24	
Dissolved Classical Chemistry Parameters									
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.102	0.100	102	80 - 120	X429124	18-Jul-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0290**
Reported: 01-Aug-24 16:11

Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.09	3.00	103	90 - 110	X429143	18-Jul-24	
EPA 300.0	Fluoride	mg/L	2.05	2.00	102	90 - 110	X429143	18-Jul-24	
EPA 300.0	Nitrate as N	mg/L	2.09	2.00	104	90 - 110	X429143	18-Jul-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.67	4.50	104	90 - 110	X429143	18-Jul-24	
EPA 300.0	Nitrite as N	mg/L	2.58	2.50	103	90 - 110	X429143	18-Jul-24	
EPA 300.0	Sulfate as SO4	mg/L	10.5	10.0	105	90 - 110	X429143	18-Jul-24	

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0	<10.0	UDL	20	X430171 - X4G0254-01	26-Jul-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	41.7	41.6	0.2	20	X430051 - X4G0290-03	23-Jul-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	41.7	41.6	0.2	20	X430051 - X4G0290-03	23-Jul-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X430051 - X4G0290-03	23-Jul-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X430051 - X4G0290-03	23-Jul-24	
SM 2540 C	Total Diss. Solids	mg/L	166	163	1.8	10	X431115 - X4G0457-02	01-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	175	176	0.6	10	X429195 - X4G0290-04	22-Jul-24	
SM 2540 C	Total Diss. Solids	mg/L	379	389	2.6	10	X431115 - X4G0457-08	01-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	692	709	2.4	10	X429195 - X4G0293-04	22-Jul-24	
SM 2540 D	Total Susp. Solids	mg/L	12.0	11.0	8.7	10	X429196 - X4G0293-04	22-Jul-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	7.0	25.0	10	X429196 - X4G0290-04	22-Jul-24	R2B
SM 4500 H B	pH @22.4°C	pH Units	6.9	6.8	0.9	20	X430051 - X4G0290-03	23-Jul-24	
SM 4500-O-G	Dissolved Oxygen	mg/L	6.0	6.0	0.0	20	X429115 - X4G0246-01	19-Jul-24	
SM 4500-O-G	Dissolved Oxygen	mg/L	7.0	7.1	1.4	20	X429115 - X4G0292-01	19-Jul-24	

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 245.1	Mercury	mg/L	0.00333	0.00105	0.00200	114	70 - 130	X429144 - X4G0238-02	23-Jul-24	
EPA 245.1	Mercury	mg/L	0.00221	<0.000093	0.00200	111	70 - 130	X429144 - X4G0290-06	23-Jul-24	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	1.07	0.0475	1.00	103	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Barium	mg/L	1.03	0.0056	1.00	102	70 - 130	X430082 - X4G0320-04	26-Jul-24	
EPA 200.7	Beryllium	mg/L	0.970	<0.00200	1.00	97.0	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Beryllium	mg/L	1.01	<0.00200	1.00	101	70 - 130	X430082 - X4G0320-04	26-Jul-24	
EPA 200.7	Boron	mg/L	1.04	<0.0400	1.00	102	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Boron	mg/L	1.07	<0.0400	1.00	103	70 - 130	X430082 - X4G0320-04	26-Jul-24	
EPA 200.7	Calcium	mg/L	33.0	12.7	20.0	102	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Calcium	mg/L	183	158	20.0	124	70 - 130	X430082 - X4G0320-04	26-Jul-24	
EPA 200.7	Chromium	mg/L	0.999	<0.0060	1.00	99.9	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Chromium	mg/L	1.07	0.0614	1.00	101	70 - 130	X430082 - X4G0320-04	26-Jul-24	
EPA 200.7	Iron	mg/L	11.0	1.02	10.0	100	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Iron	mg/L	267	257	10.0	104	70 - 130	X430082 - X4G0320-04	26-Jul-24	
EPA 200.7	Magnesium	mg/L	23.5	2.58	20.0	104	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Magnesium	mg/L	46.4	24.7	20.0	108	70 - 130	X430082 - X4G0320-04	26-Jul-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0290**
Reported: 01-Aug-24 16:11

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136) (Continued)										
EPA 200.7	Manganese	mg/L	0.986	0.0094	1.00	97.7	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Manganese	mg/L	8.63	7.60	1.00	104	70 - 130	X430082 - X4G0320-04	26-Jul-24	
EPA 200.7	Molybdenum	mg/L	1.03	0.0187	1.00	101	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Molybdenum	mg/L	1.01	<0.0080	1.00	101	70 - 130	X430082 - X4G0320-04	26-Jul-24	
EPA 200.7	Nickel	mg/L	0.958	<0.0100	1.00	95.8	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Nickel	mg/L	2.19	1.21	1.00	97.9	70 - 130	X430082 - X4G0320-04	26-Jul-24	
EPA 200.7	Phosphorus	mg/L	1.10	0.065	1.00	103	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Phosphorus	mg/L	5.20	4.13	1.00	107	70 - 130	X430082 - X4G0320-04	26-Jul-24	
EPA 200.7	Potassium	mg/L	22.7	2.42	20.0	101	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Potassium	mg/L	21.3	<0.50	20.0	107	70 - 130	X430082 - X4G0320-04	26-Jul-24	
EPA 200.7	Sodium	mg/L	24.8	5.72	19.0	100	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Sodium	mg/L	21.8	1.70	19.0	106	70 - 130	X430082 - X4G0320-04	26-Jul-24	
EPA 200.7	Zinc	mg/L	0.980	<0.0100	1.00	97.4	70 - 130	X430082 - X4G0290-05	26-Jul-24	
EPA 200.7	Zinc	mg/L	9.46	8.29	1.00	117	70 - 130	X430082 - X4G0320-04	26-Jul-24	
EPA 200.8	Antimony	mg/L	0.0242	<0.00100	0.0250	96.7	70 - 130	X430088 - X4G0313-01	25-Jul-24	
EPA 200.8	Antimony	mg/L	0.0250	<0.00100	0.0250	99.9	70 - 130	X430088 - X4G0314-05	25-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0238	<0.00100	0.0250	93.2	70 - 130	X430088 - X4G0313-01	25-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0366	0.0129	0.0250	94.7	70 - 130	X430088 - X4G0314-05	25-Jul-24	
EPA 200.8	Cadmium	mg/L	0.0236	0.000226	0.0250	93.4	70 - 130	X430088 - X4G0313-01	25-Jul-24	
EPA 200.8	Cadmium	mg/L	0.0236	<0.000100	0.0250	94.5	70 - 130	X430088 - X4G0314-05	25-Jul-24	
EPA 200.8	Chromium	mg/L	0.0225	<0.00100	0.0250	90.0	70 - 130	X430088 - X4G0313-01	25-Jul-24	
EPA 200.8	Chromium	mg/L	0.0232	<0.00100	0.0250	90.0	70 - 130	X430088 - X4G0314-05	25-Jul-24	
EPA 200.8	Copper	mg/L	0.0228	0.00044	0.0250	89.5	70 - 130	X430088 - X4G0313-01	25-Jul-24	
EPA 200.8	Copper	mg/L	0.0222	<0.00040	0.0250	88.7	70 - 130	X430088 - X4G0314-05	25-Jul-24	
EPA 200.8	Lead	mg/L	0.0231	<0.00020	0.0250	92.3	70 - 130	X430088 - X4G0313-01	25-Jul-24	
EPA 200.8	Lead	mg/L	0.0221	<0.00020	0.0250	88.4	70 - 130	X430088 - X4G0314-05	25-Jul-24	
EPA 200.8	Selenium	mg/L	0.0245	<0.00100	0.0250	98.0	70 - 130	X430088 - X4G0313-01	25-Jul-24	
EPA 200.8	Selenium	mg/L	0.0294	0.00522	0.0250	96.5	70 - 130	X430088 - X4G0314-05	25-Jul-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.939	<0.080	1.00	93.9	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Aluminum	mg/L	4.99	4.08	1.00	91.1	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Barium	mg/L	1.03	0.0475	1.00	98.1	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Barium	mg/L	0.993	0.0139	1.00	97.9	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Beryllium	mg/L	0.985	<0.00200	1.00	98.5	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Beryllium	mg/L	0.980	0.0145	1.00	96.5	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Boron	mg/L	1.05	<0.0400	1.00	102	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Boron	mg/L	1.05	0.0480	1.00	100	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Cadmium	mg/L	0.946	<0.0020	1.00	94.6	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Cadmium	mg/L	0.921	<0.0020	1.00	92.1	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Calcium	mg/L	187	169	20.0	90.7	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Calcium	mg/L	566	551	20.0	78.6	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Chromium	mg/L	0.980	<0.0060	1.00	98.0	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Chromium	mg/L	0.966	<0.0060	1.00	96.6	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Cobalt	mg/L	0.936	<0.0060	1.00	93.6	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Cobalt	mg/L	0.966	0.0393	1.00	92.7	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Copper	mg/L	0.990	<0.0100	1.00	98.1	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Copper	mg/L	1.28	0.269	1.00	101	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Iron	mg/L	9.66	<0.100	10.0	96.6	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Iron	mg/L	9.67	<0.100	10.0	96.7	70 - 130	X430053 - X4G0325-02	23-Jul-24	

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Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Lead	mg/L	0.931	<0.0075	1.00	93.1	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Lead	mg/L	0.913	<0.0075	1.00	91.3	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Lithium	mg/L	0.932	<0.040	1.00	93.2	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Lithium	mg/L	0.907	<0.040	1.00	90.7	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Magnesium	mg/L	39.2	20.1	20.0	95.6	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Magnesium	mg/L	162	140	20.0	109	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Manganese	mg/L	0.961	<0.0080	1.00	95.4	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Manganese	mg/L	13.8	13.0	1.00	83.9	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Molybdenum	mg/L	1.53	0.543	1.00	98.5	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Molybdenum	mg/L	0.981	<0.0080	1.00	97.6	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Nickel	mg/L	0.935	<0.0100	1.00	93.5	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Nickel	mg/L	1.04	0.106	1.00	93.0	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Potassium	mg/L	23.8	4.30	20.0	97.7	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Potassium	mg/L	27.1	6.75	20.0	102	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Silver	mg/L	0.0416	<0.0050	0.0500	83.2	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Silver	mg/L	0.0395	<0.0050	0.0500	78.9	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Sodium	mg/L	71.7	54.2	19.0	92.2	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Sodium	mg/L	99.2	81.1	19.0	95.3	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Vanadium	mg/L	0.999	<0.0050	1.00	99.9	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Vanadium	mg/L	0.997	<0.0050	1.00	99.5	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.7	Zinc	mg/L	0.971	<0.0100	1.00	97.1	70 - 130	X430053 - X4G0325-01	23-Jul-24	
EPA 200.7	Zinc	mg/L	1.21	0.258	1.00	95.3	70 - 130	X430053 - X4G0325-02	23-Jul-24	
EPA 200.8	Antimony	mg/L	0.0256	<0.00100	0.0250	103	70 - 130	X429205 - X4G0192-02	23-Jul-24	
EPA 200.8	Antimony	mg/L	0.0249	<0.00100	0.0250	99.7	70 - 130	X429205 - X4G0290-04	23-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0245	<0.00100	0.0250	98.1	70 - 130	X429205 - X4G0192-02	23-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0255	<0.00100	0.0250	102	70 - 130	X429205 - X4G0290-04	23-Jul-24	
EPA 200.8	Cadmium	mg/L	0.0244	0.000345	0.0250	96.4	70 - 130	X429205 - X4G0192-02	23-Jul-24	
EPA 200.8	Cadmium	mg/L	0.0244	<0.000100	0.0250	97.7	70 - 130	X429205 - X4G0290-04	23-Jul-24	
EPA 200.8	Chromium	mg/L	0.0251	0.00139	0.0250	95.0	70 - 130	X429205 - X4G0192-02	23-Jul-24	
EPA 200.8	Chromium	mg/L	0.0252	<0.00100	0.0250	101	70 - 130	X429205 - X4G0290-04	23-Jul-24	
EPA 200.8	Copper	mg/L	0.0292	0.00489	0.0250	97.2	70 - 130	X429205 - X4G0192-02	23-Jul-24	
EPA 200.8	Copper	mg/L	0.0381	0.0115	0.0250	106	70 - 130	X429205 - X4G0290-04	23-Jul-24	
EPA 200.8	Lead	mg/L	0.0237	<0.00020	0.0250	94.9	70 - 130	X429205 - X4G0192-02	23-Jul-24	
EPA 200.8	Lead	mg/L	0.0244	<0.00020	0.0250	97.6	70 - 130	X429205 - X4G0290-04	23-Jul-24	
EPA 200.8	Selenium	mg/L	0.0224	<0.00100	0.0250	89.8	70 - 130	X429205 - X4G0192-02	23-Jul-24	
EPA 200.8	Selenium	mg/L	0.0242	<0.00100	0.0250	95.7	70 - 130	X429205 - X4G0290-04	23-Jul-24	
EPA 200.8	Silver	mg/L	0.0241	<0.00008	0.0250	96.4	70 - 130	X429205 - X4G0192-02	23-Jul-24	
EPA 200.8	Silver	mg/L	0.0245	<0.00008	0.0250	97.9	70 - 130	X429205 - X4G0290-04	23-Jul-24	
EPA 200.8	Thallium	mg/L	0.0226	<0.000200	0.0250	90.3	70 - 130	X429205 - X4G0192-02	23-Jul-24	
EPA 200.8	Thallium	mg/L	0.0217	<0.000200	0.0250	86.9	70 - 130	X429205 - X4G0290-04	23-Jul-24	
EPA 200.8	Uranium	mg/L	0.0308	0.00596	0.0250	99.3	70 - 130	X429205 - X4G0192-02	23-Jul-24	
EPA 200.8	Uranium	mg/L	0.0298	0.00494	0.0250	99.5	70 - 130	X429205 - X4G0290-04	23-Jul-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00211	<0.000200	0.00200	106	70 - 130	X429236 - X4G0253-04	29-Jul-24	
EPA 245.1	Mercury	mg/L	0.00214	<0.000200	0.00200	107	70 - 130	X429236 - X4G0290-05	29-Jul-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.118	<0.0050	0.100	118	79 - 121	X430068 - X4G0290-01	25-Jul-24	R4
EPA 335.4	Cyanide (total)	mg/L	0.0400	<0.0050	0.100	40.0	90 - 110	X430014 - X4G0238-01	23-Jul-24	M2

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0290**
Reported: 01-Aug-24 16:11

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters (Continued)										
EPA 335.4	Cyanide (total)	mg/L	0.0823	0.0057	0.100	76.6	90 - 110	X430014 - X4G0238-02	23-Jul-24	M2
EPA 350.1	Ammonia as N	mg/L	1.09	0.077	1.00	101	90 - 110	X430056 - X4G0290-01	24-Jul-24	
EPA 350.1	Ammonia as N	mg/L	1.08	0.035	1.00	104	90 - 110	X430056 - X4G0290-02	24-Jul-24	
EPA 351.2	TKN	mg/L	6.02	<0.50	8.00	70.6	90 - 110	X430034 - X4G0250-01	25-Jul-24	B10,M2,R2B
EPA 351.2	TKN	mg/L	8.03	0.81	8.00	90.3	90 - 110	X430034 - X4G0250-02	25-Jul-24	B10
OIA 1677	Cyanide (WAD)	mg/L	0.0890	<0.0050	0.100	89.0	82 - 118	X430078 - X4G0192-02	23-Jul-24	
SM 4500 S D	Sulfide	mg/L	0.240	<0.050	0.200	120	75 - 125	X429199 - X4G0246-01	22-Jul-24	
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0204	<0.0050	0.0200	102	75 - 125	X429124 - X4G0181-03	18-Jul-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	8.87	5.77	3.00	104	90 - 110	X429143 - X4G0290-03	18-Jul-24	
EPA 300.0	Chloride	mg/L	30.7	27.5	3.00	106	90 - 110	X429143 - X4G0262-01	18-Jul-24	M2
EPA 300.0	Fluoride	mg/L	5.86	3.52	2.00	117	90 - 110	X429143 - X4G0290-03	18-Jul-24	M1
EPA 300.0	Fluoride	mg/L	2.72	0.314	2.00	120	90 - 110	X429143 - X4G0262-01	18-Jul-24	M1
EPA 300.0	Nitrate as N	mg/L	2.16	0.102	2.00	103	90 - 110	X429143 - X4G0290-03	18-Jul-24	
EPA 300.0	Nitrate as N	mg/L	2.09	<0.050	2.00	103	90 - 110	X429143 - X4G0262-01	18-Jul-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.20	0.102	4.00	102	90 - 110	X429143 - X4G0290-03	18-Jul-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.11	<0.100	4.00	103	90 - 110	X429143 - X4G0262-01	18-Jul-24	
EPA 300.0	Nitrite as N	mg/L	2.04	<0.050	2.00	102	90 - 110	X429143 - X4G0290-03	18-Jul-24	
EPA 300.0	Nitrite as N	mg/L	2.02	<0.050	2.00	101	90 - 110	X429143 - X4G0262-01	18-Jul-24	
EPA 300.0	Sulfate as SO4	mg/L	43.8	33.0	10.0	108	90 - 110	X429143 - X4G0290-03	18-Jul-24	
EPA 300.0	Sulfate as SO4	mg/L	361	351	10.0	101	90 - 110	X429143 - X4G0262-01	18-Jul-24	

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 245.1	Mercury	mg/L	0.00332	0.00333	0.00200	0.3	20	113	X429144 - X4G0238-02	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	1.04	1.07	1.00	2.9	20	99.6	X430082 - X4G0290-05	
EPA 200.7	Beryllium	mg/L	0.983	0.970	1.00	1.3	20	98.3	X430082 - X4G0290-05	
EPA 200.7	Boron	mg/L	1.03	1.04	1.00	0.3	20	102	X430082 - X4G0290-05	
EPA 200.7	Calcium	mg/L	32.8	33.0	20.0	0.8	20	100	X430082 - X4G0290-05	
EPA 200.7	Chromium	mg/L	0.996	0.999	1.00	0.3	20	99.6	X430082 - X4G0290-05	
EPA 200.7	Iron	mg/L	10.9	11.0	10.0	1.2	20	98.7	X430082 - X4G0290-05	
EPA 200.7	Magnesium	mg/L	22.8	23.5	20.0	3.0	20	101	X430082 - X4G0290-05	
EPA 200.7	Manganese	mg/L	0.985	0.986	1.00	0.1	20	97.5	X430082 - X4G0290-05	
EPA 200.7	Molybdenum	mg/L	1.02	1.03	1.00	0.5	20	100	X430082 - X4G0290-05	
EPA 200.7	Nickel	mg/L	0.953	0.958	1.00	0.5	20	95.3	X430082 - X4G0290-05	
EPA 200.7	Phosphorus	mg/L	1.09	1.10	1.00	1.0	20	102	X430082 - X4G0290-05	
EPA 200.7	Potassium	mg/L	22.5	22.7	20.0	0.4	20	101	X430082 - X4G0290-05	
EPA 200.7	Sodium	mg/L	24.5	24.8	19.0	0.9	20	99.1	X430082 - X4G0290-05	
EPA 200.7	Zinc	mg/L	0.979	0.980	1.00	0.1	20	97.3	X430082 - X4G0290-05	
EPA 200.8	Antimony	mg/L	0.0245	0.0242	0.0250	1.1	20	97.8	X430088 - X4G0313-01	
EPA 200.8	Arsenic	mg/L	0.0237	0.0238	0.0250	0.6	20	92.6	X430088 - X4G0313-01	
EPA 200.8	Cadmium	mg/L	0.0242	0.0236	0.0250	2.7	20	95.9	X430088 - X4G0313-01	
EPA 200.8	Chromium	mg/L	0.0229	0.0225	0.0250	1.9	20	91.6	X430088 - X4G0313-01	
EPA 200.8	Copper	mg/L	0.0233	0.0228	0.0250	2.1	20	91.5	X430088 - X4G0313-01	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0290**
Reported: 01-Aug-24 16:11

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136) (Continued)										
EPA 200.8	Lead	mg/L	0.0231	0.0231	0.0250	0.3	20	92.5	X430088 - X4G0313-01	
EPA 200.8	Selenium	mg/L	0.0251	0.0245	0.0250	2.4	20	100	X430088 - X4G0313-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.930	0.939	1.00	1.1	20	93.0	X430053 - X4G0325-01	
EPA 200.7	Barium	mg/L	1.03	1.03	1.00	0.2	20	98.3	X430053 - X4G0325-01	
EPA 200.7	Beryllium	mg/L	0.944	0.985	1.00	4.2	20	94.4	X430053 - X4G0325-01	
EPA 200.7	Boron	mg/L	1.04	1.05	1.00	1.3	20	101	X430053 - X4G0325-01	
EPA 200.7	Cadmium	mg/L	0.929	0.946	1.00	1.8	20	92.9	X430053 - X4G0325-01	
EPA 200.7	Calcium	mg/L	188	187	20.0	0.4	20	94.9	X430053 - X4G0325-01	
EPA 200.7	Chromium	mg/L	0.957	0.980	1.00	2.5	20	95.7	X430053 - X4G0325-01	
EPA 200.7	Cobalt	mg/L	0.920	0.936	1.00	1.7	20	92.0	X430053 - X4G0325-01	
EPA 200.7	Copper	mg/L	0.974	0.990	1.00	1.6	20	96.5	X430053 - X4G0325-01	
EPA 200.7	Iron	mg/L	9.53	9.66	10.0	1.3	20	95.3	X430053 - X4G0325-01	
EPA 200.7	Lead	mg/L	0.917	0.931	1.00	1.6	20	91.7	X430053 - X4G0325-01	
EPA 200.7	Lithium	mg/L	0.915	0.932	1.00	1.8	20	91.5	X430053 - X4G0325-01	
EPA 200.7	Magnesium	mg/L	39.9	39.2	20.0	1.8	20	99.1	X430053 - X4G0325-01	
EPA 200.7	Manganese	mg/L	0.941	0.961	1.00	2.1	20	93.5	X430053 - X4G0325-01	
EPA 200.7	Molybdenum	mg/L	1.51	1.53	1.00	1.4	20	96.4	X430053 - X4G0325-01	
EPA 200.7	Nickel	mg/L	0.922	0.935	1.00	1.4	20	92.2	X430053 - X4G0325-01	
EPA 200.7	Potassium	mg/L	23.8	23.8	20.0	0.1	20	97.6	X430053 - X4G0325-01	
EPA 200.7	Silver	mg/L	0.0411	0.0416	0.0500	1.2	20	82.2	X430053 - X4G0325-01	
EPA 200.7	Sodium	mg/L	71.7	71.7	19.0	0.1	20	92.4	X430053 - X4G0325-01	
EPA 200.7	Vanadium	mg/L	0.974	0.999	1.00	2.5	20	97.4	X430053 - X4G0325-01	
EPA 200.7	Zinc	mg/L	0.959	0.971	1.00	1.3	20	95.9	X430053 - X4G0325-01	
EPA 200.8	Antimony	mg/L	0.0256	0.0256	0.0250	0.1	20	102	X429205 - X4G0192-02	
EPA 200.8	Arsenic	mg/L	0.0257	0.0245	0.0250	4.7	20	103	X429205 - X4G0192-02	
EPA 200.8	Cadmium	mg/L	0.0246	0.0244	0.0250	0.6	20	97.0	X429205 - X4G0192-02	
EPA 200.8	Chromium	mg/L	0.0263	0.0251	0.0250	4.7	20	99.8	X429205 - X4G0192-02	
EPA 200.8	Copper	mg/L	0.0300	0.0292	0.0250	2.9	20	101	X429205 - X4G0192-02	
EPA 200.8	Lead	mg/L	0.0242	0.0237	0.0250	2.1	20	96.9	X429205 - X4G0192-02	
EPA 200.8	Selenium	mg/L	0.0241	0.0224	0.0250	7.1	20	96.4	X429205 - X4G0192-02	
EPA 200.8	Silver	mg/L	0.0246	0.0241	0.0250	1.9	20	98.3	X429205 - X4G0192-02	
EPA 200.8	Thallium	mg/L	0.0230	0.0226	0.0250	2.1	20	92.1	X429205 - X4G0192-02	
EPA 200.8	Uranium	mg/L	0.0311	0.0308	0.0250	1.0	20	100	X429205 - X4G0192-02	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00206	0.00211	0.00200	2.4	20	103	X429236 - X4G0253-04	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.123	0.118	0.100	4.2	11	123	X430068 - X4G0290-01	R4
EPA 335.4	Cyanide (total)	mg/L	0.0415	0.0400	0.100	3.7	20	41.5	X430014 - X4G0238-01	M2
EPA 350.1	Ammonia as N	mg/L	1.03	1.09	1.00	5.5	20	95.5	X430056 - X4G0290-01	
EPA 351.2	TKN	mg/L	7.89	6.02	8.00	26.8	20	93.9	X430034 - X4G0250-01	B10,R2B
OIA 1677	Cyanide (WAD)	mg/L	0.0950	0.0890	0.100	6.5	11	95.0	X430078 - X4G0192-02	
SM 4500 S D	Sulfide	mg/L	0.242	0.240	0.200	0.8	20	121	X429199 - X4G0246-01	
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0221	0.0204	0.0200	8.2	20	111	X429124 - X4G0181-03	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	30.3	30.7	3.00	1.3	20	93.0	X429143 - X4G0262-01	M2
EPA 300.0	Fluoride	mg/L	2.74	2.72	2.00	0.8	20	121	X429143 - X4G0262-01	M1
EPA 300.0	Nitrate as N	mg/L	2.11	2.09	2.00	1.1	20	104	X429143 - X4G0262-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.15	4.11	4.00	1.0	20	104	X429143 - X4G0262-01	
EPA 300.0	Nitrite as N	mg/L	2.04	2.02	2.00	0.9	20	102	X429143 - X4G0262-01	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4G0290**
Reported: 01-Aug-24 16:11

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Anions by Ion Chromatography (Continued)										
EPA 300.0	Sulfate as SO4	mg/L	356	361	10.0	1.3	20	0.30R>S	X429143 - X4G0262-01	M2

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4G0290**
Victor, CO 80860	Reported: 01-Aug-24 16:11

Notes and Definitions

B10	Target analyte detected in method blank above laboratory acceptance limit but below reporting limit.
H1	Sample analysis performed past holding time.
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.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
R2B	RPD exceeded the laboratory acceptance limit.
R4	MS/MSD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.
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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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4H0377**
Victor, CO 80860	Reported: 09-Sep-24 09:37

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-108 F	X4H0377-01	Ground Water	20-Aug-24 10:15	TR	21-Aug-2024	

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: X4H0377

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: **X4H0377**
Reported: 09-Sep-24 09:37

Client Sample ID: **GVMW-108 F**
SVL Sample ID: **X4H0377-01 (Ground Water)**

Sampled: 20-Aug-24 10:15
Received: 21-Aug-24
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**	50.1	mg/L	0.100	0.069		X435012	SJN	08/28/24 16:01	
EPA 200.7	**Magnesium**	6.36	mg/L	0.500	0.090		X435012	SJN	08/28/24 16:01	
EPA 200.7	**Potassium**	0.72	mg/L	0.50	0.18		X435012	SJN	08/28/24 16:01	
SM 2340 B	**Hardness (as CaCO3)**	151	mg/L	2.31	0.543		N/A		09/04/24 22:12	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X435022	SJN	09/04/24 22:12	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X435022	SJN	09/04/24 23:09	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X435022	SJN	09/04/24 22:12	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X435022	SJN	09/04/24 22:12	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X435022	SJN	09/04/24 22:12	
EPA 200.7	**Calcium**	50.3	mg/L	0.100	0.069		X435022	SJN	09/04/24 22:12	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X435022	SJN	09/04/24 22:12	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X435022	SJN	09/04/24 22:12	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X435022	SJN	09/04/24 22:12	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X435022	SJN	09/04/24 22:12	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X435022	SJN	09/04/24 23:09	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X435022	SJN	09/04/24 22:12	
EPA 200.7	**Magnesium**	6.26	mg/L	0.500	0.090		X435022	SJN	09/04/24 22:12	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X435022	SJN	09/04/24 22:12	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X435022	SJN	09/04/24 22:12	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X435022	SJN	09/04/24 22:12	
EPA 200.7	**Potassium**	0.82	mg/L	0.50	0.18		X435022	SJN	09/04/24 22:12	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X435022	SJN	09/04/24 22:12	
EPA 200.7	**Sodium**	24.3	mg/L	0.50	0.12		X435022	SJN	09/04/24 22:12	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X435022	SJN	09/04/24 22:12	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X435022	SJN	09/04/24 22:12	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X435071	SMU	09/04/24 21:55	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X435071	SMU	09/04/24 21:55	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X435071	SMU	09/04/24 21:55	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X435071	SMU	09/04/24 21:55	
EPA 200.8	**Uranium**	0.00511	mg/L	0.000100	0.000052		X435071	SMU	09/04/24 21:55	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X434037	MAC	08/27/24 17:17	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X435205	DD	09/04/24 14:48	H1
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X434282	DD	08/27/24 13:50	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X435119	DD	08/29/24 13:12	B10
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X436133	DD	09/06/24 11:52	H1
SM 2310 B	**Acidity to pH 8.3**	-43.8	mg/L as CaCO3	10.0			X435133	MWD	08/30/24 12:05	
SM 2320 B	**Total Alkalinity**	49.8	mg/L as CaCO3	1.0			X435004	MWD	08/26/24 17:45	
SM 2320 B	**Bicarbonate**	49.8	mg/L as CaCO3	1.0			X435004	MWD	08/26/24 17:45	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X435004	MWD	08/26/24 17:45	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X435004	MWD	08/26/24 17:45	
SM 2540 C	**Total Diss. Solids**	298	mg/L	10			X434204	TJL	08/23/24 12:20	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X434205	TJL	08/23/24 11:30	
SM 4500 H B	**pH @21.5°C**	7.1	pH Units				X435004	MWD	08/26/24 17:45	H5

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

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Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0377**
Reported: 09-Sep-24 09:37

Client Sample ID: **GVMW-108 F**
SVL Sample ID: **X4H0377-01 (Ground Water)**

Sampled: 20-Aug-24 10:15
Received: 21-Aug-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	63.0	mg/L	2.00	0.22	10	X434175	RS	08/21/24 18:02	
EPA 300.0	**Fluoride**	1.87	mg/L	0.100	0.017		X434175	RS	08/21/24 17:46	
EPA 300.0	**Nitrate as N**	1.30	mg/L	0.050	0.013		X434175	RS	08/21/24 17:46	
EPA 300.0	**Nitrate+Nitrite as N**	1.30	mg/L	0.100	0.044		X434175	RS	08/21/24 17:46	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X434175	RS	08/21/24 17:46	
EPA 300.0	**Sulfate as SO4**	63.5	mg/L	3.00	1.80	10	X434175	RS	08/21/24 18:02	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 4.10 meq/L Anion Sum: 4.29 meq/L C/A Balance: -2.17 % Calculated TDS: 246 TDS/cTDS: 1.21

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0377**
Reported: 09-Sep-24 09:37

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X435012	28-Aug-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X435012	28-Aug-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X435012	28-Aug-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X435022	04-Sep-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X435022	04-Sep-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X435022	04-Sep-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X435022	04-Sep-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X435022	04-Sep-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X435022	04-Sep-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X435022	04-Sep-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X435022	04-Sep-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X435022	04-Sep-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X435022	04-Sep-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X435022	04-Sep-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X435022	04-Sep-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X435022	04-Sep-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X435022	04-Sep-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X435022	04-Sep-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X435022	04-Sep-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X435022	04-Sep-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X435022	04-Sep-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X435022	04-Sep-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X435022	04-Sep-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X435022	04-Sep-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X435071	04-Sep-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X435071	04-Sep-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X435071	04-Sep-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X435071	04-Sep-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X435071	04-Sep-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X434037	27-Aug-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X435205	04-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X434282	27-Aug-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X435119	29-Aug-24	B10
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X436133	06-Sep-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X435133	30-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X435004	26-Aug-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X435004	26-Aug-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X435004	26-Aug-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X435004	26-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X434204	23-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X434205	23-Aug-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X434175	21-Aug-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X434175	21-Aug-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X434175	21-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X434175	21-Aug-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X434175	21-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X434175	21-Aug-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0377**
Reported: 09-Sep-24 09:37

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	19.3	20.0	96	85 - 115	X435012	28-Aug-24	
EPA 200.7	Magnesium	mg/L	19.5	20.0	97.7	85 - 115	X435012	28-Aug-24	
EPA 200.7	Potassium	mg/L	19.6	20.0	98.1	85 - 115	X435012	28-Aug-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.985	1.00	98.5	85 - 115	X435022	04-Sep-24	
EPA 200.7	Barium	mg/L	0.983	1.00	98.3	85 - 115	X435022	04-Sep-24	
EPA 200.7	Beryllium	mg/L	0.987	1.00	98.7	85 - 115	X435022	04-Sep-24	
EPA 200.7	Boron	mg/L	0.980	1.00	98.0	85 - 115	X435022	04-Sep-24	
EPA 200.7	Cadmium	mg/L	0.982	1.00	98.2	85 - 115	X435022	04-Sep-24	
EPA 200.7	Calcium	mg/L	19.6	20.0	98.1	85 - 115	X435022	04-Sep-24	
EPA 200.7	Chromium	mg/L	0.984	1.00	98.4	85 - 115	X435022	04-Sep-24	
EPA 200.7	Cobalt	mg/L	0.960	1.00	96.0	85 - 115	X435022	04-Sep-24	
EPA 200.7	Copper	mg/L	0.969	1.00	96.9	85 - 115	X435022	04-Sep-24	
EPA 200.7	Iron	mg/L	10.1	10.0	101	85 - 115	X435022	04-Sep-24	
EPA 200.7	Lead	mg/L	0.976	1.00	97.6	85 - 115	X435022	04-Sep-24	
EPA 200.7	Lithium	mg/L	0.966	1.00	96.6	85 - 115	X435022	04-Sep-24	
EPA 200.7	Magnesium	mg/L	19.1	20.0	95.7	85 - 115	X435022	04-Sep-24	
EPA 200.7	Manganese	mg/L	0.983	1.00	98.3	85 - 115	X435022	04-Sep-24	
EPA 200.7	Molybdenum	mg/L	0.996	1.00	99.6	85 - 115	X435022	04-Sep-24	
EPA 200.7	Nickel	mg/L	0.964	1.00	96.4	85 - 115	X435022	04-Sep-24	
EPA 200.7	Potassium	mg/L	20.3	20.0	101	85 - 115	X435022	04-Sep-24	
EPA 200.7	Silver	mg/L	0.0499	0.0500	99.8	85 - 115	X435022	04-Sep-24	
EPA 200.7	Sodium	mg/L	18.5	19.0	97.3	85 - 115	X435022	04-Sep-24	
EPA 200.7	Vanadium	mg/L	0.981	1.00	98.1	85 - 115	X435022	04-Sep-24	
EPA 200.7	Zinc	mg/L	0.964	1.00	96.4	85 - 115	X435022	04-Sep-24	
EPA 200.8	Antimony	mg/L	0.0245	0.0250	97.9	85 - 115	X435071	05-Sep-24	
EPA 200.8	Arsenic	mg/L	0.0269	0.0250	108	85 - 115	X435071	05-Sep-24	
EPA 200.8	Selenium	mg/L	0.0264	0.0250	106	85 - 115	X435071	05-Sep-24	
EPA 200.8	Thallium	mg/L	0.0257	0.0250	103	85 - 115	X435071	05-Sep-24	
EPA 200.8	Uranium	mg/L	0.0265	0.0250	106	85 - 115	X435071	05-Sep-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00214	0.00200	107	85 - 115	X434037	27-Aug-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.107	0.100	107	90 - 110	X435205	04-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.104	0.100	104	90 - 110	X434282	27-Aug-24	
EPA 350.1	Ammonia as N	mg/L	1.00	1.00	100	90 - 110	X435119	29-Aug-24	B10
OIA 1677	Cyanide (WAD)	mg/L	0.103	0.100	103	90 - 110	X436133	06-Sep-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	867	884	98.1	95.4 - 104	X435133	30-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.2	9.93	103	96.4 - 105	X435004	26-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	103	99.3	103	96.4 - 105	X435004	26-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X434205	23-Aug-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.99	3.00	99.8	90 - 110	X434175	21-Aug-24	
EPA 300.0	Fluoride	mg/L	2.01	2.00	101	90 - 110	X434175	21-Aug-24	
EPA 300.0	Nitrate as N	mg/L	2.04	2.00	102	90 - 110	X434175	21-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.53	4.50	101	90 - 110	X434175	21-Aug-24	
EPA 300.0	Nitrite as N	mg/L	2.49	2.50	99.6	90 - 110	X434175	21-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	10.4	10.0	104	90 - 110	X434175	21-Aug-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0377**
Reported: 09-Sep-24 09:37

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0	<10.0	UDL	20	X435133 - X4H0376-01	30-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	50.2	50.0	0.4	20	X435004 - X4H0376-01	26-Aug-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	50.2	50.0	0.4	20	X435004 - X4H0376-01	26-Aug-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X435004 - X4H0376-01	26-Aug-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X435004 - X4H0376-01	26-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	290	300	3.4	10	X434204 - X4H0376-02	23-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	311	299	3.9	10	X434204 - X4H0376-03	23-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	30.0	28.0	6.9	10	X434205 - X4H0376-03	23-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X434205 - X4H0376-02	23-Aug-24	
SM 4500 H B	pH @21.5°C	pH Units	7.1	7.1	0.4	20	X435004 - X4H0376-01	26-Aug-24	

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	69.1	49.6	20.0	97	70 - 130	X435012 - X4H0376-01	28-Aug-24	
EPA 200.7	Calcium	mg/L	86.4	64.2	20.0	111	70 - 130	X435012 - X4H0442-01	28-Aug-24	
EPA 200.7	Magnesium	mg/L	26.4	6.33	20.0	100	70 - 130	X435012 - X4H0376-01	28-Aug-24	
EPA 200.7	Magnesium	mg/L	23.6	2.61	20.0	105	70 - 130	X435012 - X4H0442-01	28-Aug-24	
EPA 200.7	Potassium	mg/L	20.9	0.83	20.0	100	70 - 130	X435012 - X4H0376-01	28-Aug-24	
EPA 200.7	Potassium	mg/L	25.7	4.64	20.0	105	70 - 130	X435012 - X4H0442-01	28-Aug-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.987	<0.080	1.00	98.7	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Barium	mg/L	0.971	<0.0020	1.00	97.1	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Beryllium	mg/L	0.964	<0.00200	1.00	96.4	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Boron	mg/L	1.01	<0.0400	1.00	99.0	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Cadmium	mg/L	0.973	<0.0020	1.00	97.3	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Calcium	mg/L	70.4	51.6	20.0	93.8	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Chromium	mg/L	0.986	<0.0060	1.00	98.6	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Cobalt	mg/L	0.942	<0.0060	1.00	94.2	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Copper	mg/L	0.970	<0.0100	1.00	96.6	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Iron	mg/L	10.2	<0.100	10.0	102	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Lead	mg/L	0.946	<0.0075	1.00	94.6	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Lithium	mg/L	0.964	<0.040	1.00	96.4	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Magnesium	mg/L	25.6	6.26	20.0	96.9	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Manganese	mg/L	0.978	<0.0080	1.00	97.2	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Molybdenum	mg/L	0.983	<0.0080	1.00	98.3	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Nickel	mg/L	0.929	<0.0100	1.00	92.9	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Potassium	mg/L	21.3	0.78	20.0	103	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Silver	mg/L	0.0504	<0.0050	0.0500	101	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Sodium	mg/L	43.0	24.9	19.0	95.4	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Vanadium	mg/L	0.986	<0.0050	1.00	98.6	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Zinc	mg/L	0.977	<0.0100	1.00	97.7	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.8	Antimony	mg/L	0.0259	<0.00100	0.0250	104	70 - 130	X435071 - X4H0362-01	04-Sep-24	
EPA 200.8	Antimony	mg/L	0.0267	<0.00100	0.0250	107	70 - 130	X435071 - X4H0377-01	04-Sep-24	
EPA 200.8	Arsenic	mg/L	0.0308	0.00295	0.0250	111	70 - 130	X435071 - X4H0362-01	04-Sep-24	
EPA 200.8	Arsenic	mg/L	0.0270	<0.00100	0.0250	108	70 - 130	X435071 - X4H0377-01	04-Sep-24	
EPA 200.8	Selenium	mg/L	0.0273	<0.00100	0.0250	107	70 - 130	X435071 - X4H0362-01	04-Sep-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0377**
Reported: 09-Sep-24 09:37

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.8	Selenium	mg/L	0.0294	<0.00100	0.0250	116	70 - 130	X435071 - X4H0377-01	04-Sep-24	
EPA 200.8	Thallium	mg/L	0.0304	0.000361	0.0250	120	70 - 130	X435071 - X4H0362-01	04-Sep-24	
EPA 200.8	Thallium	mg/L	0.0263	<0.000200	0.0250	105	70 - 130	X435071 - X4H0377-01	04-Sep-24	
EPA 200.8	Uranium	mg/L	0.0358	0.00385	0.0250	128	70 - 130	X435071 - X4H0362-01	04-Sep-24	
EPA 200.8	Uranium	mg/L	0.0330	0.00511	0.0250	112	70 - 130	X435071 - X4H0377-01	04-Sep-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00218	<0.000200	0.00200	109	70 - 130	X434037 - X4H0241-01	27-Aug-24	
EPA 245.1	Mercury	mg/L	0.00217	<0.000200	0.00200	109	70 - 130	X434037 - X4H0376-01	27-Aug-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0940	<0.0050	0.100	94.0	79 - 121	X435205 - X4H0346-01	04-Sep-24	H1,R4
EPA 335.4	Cyanide (total)	mg/L	0.108	<0.0050	0.100	108	90 - 110	X434282 - X4H0346-01	27-Aug-24	
EPA 335.4	Cyanide (total)	mg/L	0.106	<0.0050	0.100	106	90 - 110	X434282 - X4H0346-02	27-Aug-24	
EPA 350.1	Ammonia as N	mg/L	1.07	<0.030	1.00	105	90 - 110	X435119 - X4H0346-01	29-Aug-24	B10
EPA 350.1	Ammonia as N	mg/L	1.01	<0.030	1.00	101	90 - 110	X435119 - X4H0346-02	29-Aug-24	B10
OIA 1677	Cyanide (WAD)	mg/L	0.117	0.0070	0.100	110	82 - 118	X436133 - X4H0346-01	06-Sep-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.45	0.45	3.00	99.8	90 - 110	X434175 - X4H0382-01	21-Aug-24	
EPA 300.0	Chloride	mg/L	3.37	0.37	3.00	99.8	90 - 110	X434175 - X4H0389-01	21-Aug-24	
EPA 300.0	Fluoride	mg/L	1.99	<0.100	2.00	98.6	90 - 110	X434175 - X4H0382-01	21-Aug-24	
EPA 300.0	Fluoride	mg/L	2.36	0.345	2.00	101	90 - 110	X434175 - X4H0389-01	21-Aug-24	
EPA 300.0	Nitrate as N	mg/L	2.05	<0.050	2.00	101	90 - 110	X434175 - X4H0382-01	21-Aug-24	
EPA 300.0	Nitrate as N	mg/L	2.08	<0.050	2.00	102	90 - 110	X434175 - X4H0389-01	21-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.04	<0.100	4.00	101	90 - 110	X434175 - X4H0382-01	21-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.10	<0.100	4.00	101	90 - 110	X434175 - X4H0389-01	21-Aug-24	
EPA 300.0	Nitrite as N	mg/L	1.99	<0.050	2.00	99.5	90 - 110	X434175 - X4H0382-01	21-Aug-24	
EPA 300.0	Nitrite as N	mg/L	2.02	<0.050	2.00	101	90 - 110	X434175 - X4H0389-01	21-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	10.8	0.68	10.0	101	90 - 110	X434175 - X4H0382-01	21-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	12.7	2.51	10.0	102	90 - 110	X434175 - X4H0389-01	21-Aug-24	

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	68.8	69.1	20.0	0.5	20	96	X435012 - X4H0376-01	
EPA 200.7	Magnesium	mg/L	26.6	26.4	20.0	0.7	20	101	X435012 - X4H0376-01	
EPA 200.7	Potassium	mg/L	20.9	20.9	20.0	0.1	20	100	X435012 - X4H0376-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.984	0.987	1.00	0.3	20	98.4	X435022 - X4H0376-01	
EPA 200.7	Barium	mg/L	0.960	0.971	1.00	1.1	20	96.0	X435022 - X4H0376-01	
EPA 200.7	Beryllium	mg/L	0.982	0.964	1.00	1.8	20	98.2	X435022 - X4H0376-01	
EPA 200.7	Boron	mg/L	1.00	1.01	1.00	0.3	20	98.6	X435022 - X4H0376-01	
EPA 200.7	Cadmium	mg/L	0.968	0.973	1.00	0.6	20	96.8	X435022 - X4H0376-01	
EPA 200.7	Calcium	mg/L	71.4	70.4	20.0	1.4	20	98.6	X435022 - X4H0376-01	
EPA 200.7	Chromium	mg/L	0.980	0.986	1.00	0.6	20	98.0	X435022 - X4H0376-01	
EPA 200.7	Cobalt	mg/L	0.938	0.942	1.00	0.4	20	93.8	X435022 - X4H0376-01	
EPA 200.7	Copper	mg/L	0.962	0.970	1.00	0.7	20	95.9	X435022 - X4H0376-01	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0377**
Reported: 09-Sep-24 09:37

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Iron	mg/L	10.3	10.2	10.0	0.7	20	103	X435022 - X4H0376-01	
EPA 200.7	Lead	mg/L	0.926	0.946	1.00	2.1	20	92.6	X435022 - X4H0376-01	
EPA 200.7	Lithium	mg/L	0.972	0.964	1.00	0.8	20	97.2	X435022 - X4H0376-01	
EPA 200.7	Magnesium	mg/L	25.6	25.6	20.0	0.2	20	96.6	X435022 - X4H0376-01	
EPA 200.7	Manganese	mg/L	0.972	0.978	1.00	0.6	20	96.6	X435022 - X4H0376-01	
EPA 200.7	Molybdenum	mg/L	0.982	0.983	1.00	0.1	20	98.2	X435022 - X4H0376-01	
EPA 200.7	Nickel	mg/L	0.925	0.929	1.00	0.5	20	92.5	X435022 - X4H0376-01	
EPA 200.7	Potassium	mg/L	21.7	21.3	20.0	1.9	20	105	X435022 - X4H0376-01	
EPA 200.7	Silver	mg/L	0.0501	0.0504	0.0500	0.6	20	100	X435022 - X4H0376-01	
EPA 200.7	Sodium	mg/L	43.5	43.0	19.0	1.2	20	98.2	X435022 - X4H0376-01	
EPA 200.7	Vanadium	mg/L	0.979	0.986	1.00	0.8	20	97.9	X435022 - X4H0376-01	
EPA 200.7	Zinc	mg/L	0.968	0.977	1.00	0.9	20	96.8	X435022 - X4H0376-01	
EPA 200.8	Antimony	mg/L	0.0261	0.0259	0.0250	0.8	20	104	X435071 - X4H0362-01	
EPA 200.8	Arsenic	mg/L	0.0316	0.0308	0.0250	2.7	20	115	X435071 - X4H0362-01	
EPA 200.8	Selenium	mg/L	0.0276	0.0273	0.0250	1.2	20	108	X435071 - X4H0362-01	
EPA 200.8	Thallium	mg/L	0.0305	0.0304	0.0250	0.5	20	121	X435071 - X4H0362-01	
EPA 200.8	Uranium	mg/L	0.0364	0.0358	0.0250	1.7	20	130	X435071 - X4H0362-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00217	0.00218	0.00200	0.1	20	109	X434037 - X4H0241-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0830	0.0940	0.100	12.4	11	83.0	X435205 - X4H0346-01	H1,R4
EPA 335.4	Cyanide (total)	mg/L	0.106	0.108	0.100	1.8	20	106	X434282 - X4H0346-01	
EPA 350.1	Ammonia as N	mg/L	1.06	1.07	1.00	0.2	20	104	X435119 - X4H0346-01	B10
OIA 1677	Cyanide (WAD)	mg/L	0.118	0.117	0.100	0.9	11	111	X436133 - X4H0346-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.50	3.45	3.00	1.5	20	102	X434175 - X4H0382-01	
EPA 300.0	Fluoride	mg/L	2.03	1.99	2.00	1.9	20	100	X434175 - X4H0382-01	
EPA 300.0	Nitrate as N	mg/L	2.09	2.05	2.00	1.6	20	102	X434175 - X4H0382-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.10	4.04	4.00	1.4	20	102	X434175 - X4H0382-01	
EPA 300.0	Nitrite as N	mg/L	2.01	1.99	2.00	1.2	20	101	X434175 - X4H0382-01	
EPA 300.0	Sulfate as SO4	mg/L	10.8	10.8	10.0	0.8	20	102	X434175 - X4H0382-01	

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4H0377**
Victor, CO 80860	Reported: 09-Sep-24 09:37

Notes and Definitions

B10	Target analyte detected in method blank above laboratory acceptance limit but below reporting limit.
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.
R4	MS/MSD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4H0406**
Victor, CO 80860	Reported: 09-Sep-24 09:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
CRMW-103H	X4H0406-01	Ground Water	21-Aug-24 13:14	TR	22-Aug-2024	

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: X4H0406

Samples treated with CdCO3 before CN analysis for sulfide interference at client request.
The state of origin only accredits for drinking water analyses.

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Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0406**
Reported: 09-Sep-24 09:45

Client Sample ID: **CRMW-103H**
SVL Sample ID: **X4H0406-01 (Ground Water)**

Sampled: 21-Aug-24 13:14
Received: 22-Aug-24
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**	276	mg/L	0.100	0.069		X435012	SJN	08/28/24 16:16	
EPA 200.7	**Magnesium**	60.4	mg/L	0.500	0.090		X435012	SJN	08/28/24 16:16	
EPA 200.7	**Potassium**	7.17	mg/L	0.50	0.18		X435012	SJN	08/28/24 16:16	
SM 2340 B	**Hardness (as CaCO3)**	939	mg/L	2.31	0.543		N/A		09/04/24 22:16	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X435022	SJN	09/04/24 22:16	
EPA 200.7	**Barium**	0.0118	mg/L	0.0020	0.0019		X435022	SJN	09/04/24 23:13	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X435022	SJN	09/04/24 22:16	
EPA 200.7	**Boron**	0.0732	mg/L	0.0400	0.0078		X435022	SJN	09/04/24 22:16	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X435022	SJN	09/04/24 22:16	
EPA 200.7	**Calcium**	279	mg/L	0.100	0.069		X435022	SJN	09/04/24 22:16	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X435022	SJN	09/04/24 22:16	
EPA 200.7	**Cobalt**	0.0200	mg/L	0.0060	0.0046		X435022	SJN	09/04/24 22:16	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X435022	SJN	09/04/24 22:16	
EPA 200.7	**Iron**	0.112	mg/L	0.100	0.056		X435022	SJN	09/04/24 22:16	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X435022	SJN	09/04/24 23:13	
EPA 200.7	**Lithium**	0.080	mg/L	0.040	0.025		X435022	SJN	09/04/24 22:16	
EPA 200.7	**Magnesium**	57.8	mg/L	0.500	0.090		X435022	SJN	09/04/24 22:16	
EPA 200.7	**Manganese**	2.43	mg/L	0.0080	0.0034		X435022	SJN	09/04/24 22:16	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X435022	SJN	09/04/24 22:16	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X435022	SJN	09/04/24 22:16	
EPA 200.7	**Potassium**	7.16	mg/L	0.50	0.18		X435022	SJN	09/04/24 22:16	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X435022	SJN	09/04/24 22:16	
EPA 200.7	**Sodium**	71.4	mg/L	0.50	0.12		X435022	SJN	09/04/24 22:16	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X435022	SJN	09/04/24 22:16	
EPA 200.7	**Zinc**	0.0325	mg/L	0.0100	0.0054		X435022	SJN	09/04/24 22:16	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X435071	SMU	09/04/24 22:01	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X435071	SMU	09/04/24 22:01	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X435071	SMU	09/04/24 22:01	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X435071	SMU	09/04/24 22:01	
EPA 200.8	**Uranium**	0.0242	mg/L	0.000100	0.000052		X435071	SMU	09/04/24 22:01	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X434037	MAC	08/27/24 17:19	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X435206	DD	09/04/24 15:38	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X434282	DD	08/27/24 14:15	
EPA 350.1	Ammonia as N	< 0.150	mg/L	0.150	0.064	5	X435119	DD	08/29/24 13:29	B10
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X436133	DD	09/06/24 11:53	H1
SM 2310 B	**Acidity to pH 8.3**	-148	mg/L as CaCO3	10.0			X435134	MWD	08/30/24 12:02	
SM 2320 B	**Total Alkalinity**	153	mg/L as CaCO3	1.0			X435004	MWD	08/26/24 18:00	
SM 2320 B	**Bicarbonate**	153	mg/L as CaCO3	1.0			X435004	MWD	08/26/24 18:00	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X435004	MWD	08/26/24 18:00	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X435004	MWD	08/26/24 18:00	
SM 2540 C	**Total Diss. Solids**	1380	mg/L	10			X434235	TJL	08/27/24 12:35	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X434236	TJL	08/27/24 12:05	
SM 4500 H B	**pH @21.9°C**	7.4	pH Units				X435004	MWD	08/26/24 18:00	H5

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0406**
Reported: 09-Sep-24 09:45

Client Sample ID: **CRMW-103H**
SVL Sample ID: **X4H0406-01 (Ground Water)**

Sampled: 21-Aug-24 13:14
Received: 22-Aug-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	178	mg/L	10.0	1.10	50	X434222	RS	08/22/24 14:23	
EPA 300.0	**Fluoride**	2.66	mg/L	0.100	0.017		X434222	RS	08/22/24 14:07	
EPA 300.0	**Nitrate as N**	0.356	mg/L	0.050	0.013		X434222	RS	08/22/24 14:07	
EPA 300.0	**Nitrate+Nitrite as N**	0.356	mg/L	0.100	0.044		X434222	RS	08/22/24 14:07	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X434222	RS	08/22/24 14:07	
EPA 300.0	**Sulfate as SO4**	683	mg/L	15.0	9.00	50	X434222	RS	08/22/24 14:23	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 21.9 meq/L Anion Sum: 22.5 meq/L C/A Balance: -1.20 % Calculated TDS: 1372 TDS/cTDS: 1.01

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0406**
Reported: 09-Sep-24 09:45

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X435012	28-Aug-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X435012	28-Aug-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X435012	28-Aug-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X435022	04-Sep-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X435022	04-Sep-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X435022	04-Sep-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X435022	04-Sep-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X435022	04-Sep-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X435022	04-Sep-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X435022	04-Sep-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X435022	04-Sep-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X435022	04-Sep-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X435022	04-Sep-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X435022	04-Sep-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X435022	04-Sep-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X435022	04-Sep-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X435022	04-Sep-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X435022	04-Sep-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X435022	04-Sep-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X435022	04-Sep-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X435022	04-Sep-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X435022	04-Sep-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X435022	04-Sep-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X435022	04-Sep-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X435071	04-Sep-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X435071	04-Sep-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X435071	04-Sep-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X435071	04-Sep-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X435071	04-Sep-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X434037	27-Aug-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X435206	04-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X434282	27-Aug-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X435119	29-Aug-24	B10
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X436133	06-Sep-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X435134	30-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X435004	26-Aug-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X435004	26-Aug-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X435004	26-Aug-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X435004	26-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X434235	27-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X434236	27-Aug-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X434222	22-Aug-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X434222	22-Aug-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X434222	22-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X434222	22-Aug-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X434222	22-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X434222	22-Aug-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0406**
Reported: 09-Sep-24 09:45

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	19.3	20.0	96	85 - 115	X435012	28-Aug-24	
EPA 200.7	Magnesium	mg/L	19.5	20.0	97.7	85 - 115	X435012	28-Aug-24	
EPA 200.7	Potassium	mg/L	19.6	20.0	98.1	85 - 115	X435012	28-Aug-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.985	1.00	98.5	85 - 115	X435022	04-Sep-24	
EPA 200.7	Barium	mg/L	0.983	1.00	98.3	85 - 115	X435022	04-Sep-24	
EPA 200.7	Beryllium	mg/L	0.987	1.00	98.7	85 - 115	X435022	04-Sep-24	
EPA 200.7	Boron	mg/L	0.980	1.00	98.0	85 - 115	X435022	04-Sep-24	
EPA 200.7	Cadmium	mg/L	0.982	1.00	98.2	85 - 115	X435022	04-Sep-24	
EPA 200.7	Calcium	mg/L	19.6	20.0	98.1	85 - 115	X435022	04-Sep-24	
EPA 200.7	Chromium	mg/L	0.984	1.00	98.4	85 - 115	X435022	04-Sep-24	
EPA 200.7	Cobalt	mg/L	0.960	1.00	96.0	85 - 115	X435022	04-Sep-24	
EPA 200.7	Copper	mg/L	0.969	1.00	96.9	85 - 115	X435022	04-Sep-24	
EPA 200.7	Iron	mg/L	10.1	10.0	101	85 - 115	X435022	04-Sep-24	
EPA 200.7	Lead	mg/L	0.976	1.00	97.6	85 - 115	X435022	04-Sep-24	
EPA 200.7	Lithium	mg/L	0.966	1.00	96.6	85 - 115	X435022	04-Sep-24	
EPA 200.7	Magnesium	mg/L	19.1	20.0	95.7	85 - 115	X435022	04-Sep-24	
EPA 200.7	Manganese	mg/L	0.983	1.00	98.3	85 - 115	X435022	04-Sep-24	
EPA 200.7	Molybdenum	mg/L	0.996	1.00	99.6	85 - 115	X435022	04-Sep-24	
EPA 200.7	Nickel	mg/L	0.964	1.00	96.4	85 - 115	X435022	04-Sep-24	
EPA 200.7	Potassium	mg/L	20.3	20.0	101	85 - 115	X435022	04-Sep-24	
EPA 200.7	Silver	mg/L	0.0499	0.0500	99.8	85 - 115	X435022	04-Sep-24	
EPA 200.7	Sodium	mg/L	18.5	19.0	97.3	85 - 115	X435022	04-Sep-24	
EPA 200.7	Vanadium	mg/L	0.981	1.00	98.1	85 - 115	X435022	04-Sep-24	
EPA 200.7	Zinc	mg/L	0.964	1.00	96.4	85 - 115	X435022	04-Sep-24	
EPA 200.8	Antimony	mg/L	0.0245	0.0250	97.9	85 - 115	X435071	05-Sep-24	
EPA 200.8	Arsenic	mg/L	0.0269	0.0250	108	85 - 115	X435071	05-Sep-24	
EPA 200.8	Selenium	mg/L	0.0264	0.0250	106	85 - 115	X435071	05-Sep-24	
EPA 200.8	Thallium	mg/L	0.0257	0.0250	103	85 - 115	X435071	05-Sep-24	
EPA 200.8	Uranium	mg/L	0.0265	0.0250	106	85 - 115	X435071	05-Sep-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00214	0.00200	107	85 - 115	X434037	27-Aug-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0950	0.100	95.0	90 - 110	X435206	04-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.104	0.100	104	90 - 110	X434282	27-Aug-24	
EPA 350.1	Ammonia as N	mg/L	1.00	1.00	100	90 - 110	X435119	29-Aug-24	B10
OIA 1677	Cyanide (WAD)	mg/L	0.103	0.100	103	90 - 110	X436133	06-Sep-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	897	884	101	95.4 - 104	X435134	30-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.2	9.93	103	96.4 - 105	X435004	26-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	103	99.3	103	96.4 - 105	X435004	26-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X434236	27-Aug-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.02	3.00	101	90 - 110	X434222	22-Aug-24	
EPA 300.0	Fluoride	mg/L	1.99	2.00	99.6	90 - 110	X434222	22-Aug-24	
EPA 300.0	Nitrate as N	mg/L	2.05	2.00	102	90 - 110	X434222	22-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.54	4.50	101	90 - 110	X434222	22-Aug-24	
EPA 300.0	Nitrite as N	mg/L	2.49	2.50	99.6	90 - 110	X434222	22-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	10.4	10.0	104	90 - 110	X434222	22-Aug-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0406**
Reported: 09-Sep-24 09:45

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0	<10.0	UDL	20	X435134 - X4H0384-01	30-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	50.2	50.0	0.4	20	X435004 - X4H0376-01	26-Aug-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	50.2	50.0	0.4	20	X435004 - X4H0376-01	26-Aug-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X435004 - X4H0376-01	26-Aug-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X435004 - X4H0376-01	26-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	1340	1380	3.2	10	X434235 - X4H0406-01	27-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	479	507	5.7	10	X434235 - X4H0409-09	27-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X434236 - X4H0406-01	27-Aug-24	
SM 4500 H B	pH @21.5°C	pH Units	7.1	7.1	0.4	20	X435004 - X4H0376-01	26-Aug-24	

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	69.1	49.6	20.0	97	70 - 130	X435012 - X4H0376-01	28-Aug-24	
EPA 200.7	Calcium	mg/L	86.4	64.2	20.0	111	70 - 130	X435012 - X4H0442-01	28-Aug-24	
EPA 200.7	Magnesium	mg/L	26.4	6.33	20.0	100	70 - 130	X435012 - X4H0376-01	28-Aug-24	
EPA 200.7	Magnesium	mg/L	23.6	2.61	20.0	105	70 - 130	X435012 - X4H0442-01	28-Aug-24	
EPA 200.7	Potassium	mg/L	20.9	0.83	20.0	100	70 - 130	X435012 - X4H0376-01	28-Aug-24	
EPA 200.7	Potassium	mg/L	25.7	4.64	20.0	105	70 - 130	X435012 - X4H0442-01	28-Aug-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.987	<0.080	1.00	98.7	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Barium	mg/L	0.971	<0.0020	1.00	97.1	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Beryllium	mg/L	0.964	<0.00200	1.00	96.4	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Boron	mg/L	1.01	<0.0400	1.00	99.0	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Cadmium	mg/L	0.973	<0.0020	1.00	97.3	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Calcium	mg/L	70.4	51.6	20.0	93.8	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Chromium	mg/L	0.986	<0.0060	1.00	98.6	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Cobalt	mg/L	0.942	<0.0060	1.00	94.2	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Copper	mg/L	0.970	<0.0100	1.00	96.6	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Iron	mg/L	10.2	<0.100	10.0	102	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Lead	mg/L	0.946	<0.0075	1.00	94.6	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Lithium	mg/L	0.964	<0.040	1.00	96.4	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Magnesium	mg/L	25.6	6.26	20.0	96.9	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Manganese	mg/L	0.978	<0.0080	1.00	97.2	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Molybdenum	mg/L	0.983	<0.0080	1.00	98.3	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Nickel	mg/L	0.929	<0.0100	1.00	92.9	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Potassium	mg/L	21.3	0.78	20.0	103	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Silver	mg/L	0.0504	<0.0050	0.0500	101	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Sodium	mg/L	43.0	24.9	19.0	95.4	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Vanadium	mg/L	0.986	<0.0050	1.00	98.6	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Zinc	mg/L	0.977	<0.0100	1.00	97.7	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.8	Antimony	mg/L	0.0259	<0.00100	0.0250	104	70 - 130	X435071 - X4H0362-01	04-Sep-24	
EPA 200.8	Antimony	mg/L	0.0267	<0.00100	0.0250	107	70 - 130	X435071 - X4H0377-01	04-Sep-24	
EPA 200.8	Arsenic	mg/L	0.0308	0.00295	0.0250	111	70 - 130	X435071 - X4H0362-01	04-Sep-24	
EPA 200.8	Arsenic	mg/L	0.0270	<0.00100	0.0250	108	70 - 130	X435071 - X4H0377-01	04-Sep-24	
EPA 200.8	Selenium	mg/L	0.0273	<0.00100	0.0250	107	70 - 130	X435071 - X4H0362-01	04-Sep-24	
EPA 200.8	Selenium	mg/L	0.0294	<0.00100	0.0250	116	70 - 130	X435071 - X4H0377-01	04-Sep-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0406**
Reported: 09-Sep-24 09:45

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.8	Thallium	mg/L	0.0304	0.000361	0.0250	120	70 - 130	X435071 - X4H0362-01	04-Sep-24	
EPA 200.8	Thallium	mg/L	0.0263	<0.000200	0.0250	105	70 - 130	X435071 - X4H0377-01	04-Sep-24	
EPA 200.8	Uranium	mg/L	0.0358	0.00385	0.0250	128	70 - 130	X435071 - X4H0362-01	04-Sep-24	
EPA 200.8	Uranium	mg/L	0.0330	0.00511	0.0250	112	70 - 130	X435071 - X4H0377-01	04-Sep-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00218	<0.000200	0.00200	109	70 - 130	X434037 - X4H0241-01	27-Aug-24	
EPA 245.1	Mercury	mg/L	0.00217	<0.000200	0.00200	109	70 - 130	X434037 - X4H0376-01	27-Aug-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0980	<0.0050	0.100	98.0	79 - 121	X435206 - X4H0406-01	04-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.108	<0.0050	0.100	108	90 - 110	X434282 - X4H0346-01	27-Aug-24	
EPA 335.4	Cyanide (total)	mg/L	0.106	<0.0050	0.100	106	90 - 110	X434282 - X4H0346-02	27-Aug-24	
EPA 350.1	Ammonia as N	mg/L	1.07	<0.030	1.00	105	90 - 110	X435119 - X4H0346-01	29-Aug-24	B10
EPA 350.1	Ammonia as N	mg/L	1.01	<0.030	1.00	101	90 - 110	X435119 - X4H0346-02	29-Aug-24	B10
OIA 1677	Cyanide (WAD)	mg/L	0.117	0.0070	0.100	110	82 - 118	X436133 - X4H0346-01	06-Sep-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.28	0.28	3.00	99.8	90 - 110	X434222 - X4H0411-01	23-Aug-24	
EPA 300.0	Chloride	mg/L	33.3	30.4	3.00	98.9	90 - 110	X434222 - X4H0409-09	23-Aug-24	
EPA 300.0	Fluoride	mg/L	2.03	<0.100	2.00	99.9	90 - 110	X434222 - X4H0411-01	23-Aug-24	
EPA 300.0	Fluoride	mg/L	2.17	0.325	2.00	92.1	90 - 110	X434222 - X4H0409-09	23-Aug-24	
EPA 300.0	Nitrate as N	mg/L	2.09	0.075	2.00	101	90 - 110	X434222 - X4H0411-01	23-Aug-24	
EPA 300.0	Nitrate as N	mg/L	2.00	<0.050	2.00	100	90 - 110	X434222 - X4H0409-09	23-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.09	<0.100	4.00	100	90 - 110	X434222 - X4H0411-01	23-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.99	<0.100	4.00	99.7	90 - 110	X434222 - X4H0409-09	23-Aug-24	
EPA 300.0	Nitrite as N	mg/L	2.00	<0.050	2.00	99.9	90 - 110	X434222 - X4H0411-01	23-Aug-24	
EPA 300.0	Nitrite as N	mg/L	1.99	<0.050	2.00	99.3	90 - 110	X434222 - X4H0409-09	23-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	14.5	4.43	10.0	101	90 - 110	X434222 - X4H0411-01	23-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	129	120	10.0	95.4	90 - 110	X434222 - X4H0409-09	23-Aug-24	

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	68.8	69.1	20.0	0.5	20	96	X435012 - X4H0376-01	
EPA 200.7	Magnesium	mg/L	26.6	26.4	20.0	0.7	20	101	X435012 - X4H0376-01	
EPA 200.7	Potassium	mg/L	20.9	20.9	20.0	0.1	20	100	X435012 - X4H0376-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.984	0.987	1.00	0.3	20	98.4	X435022 - X4H0376-01	
EPA 200.7	Barium	mg/L	0.960	0.971	1.00	1.1	20	96.0	X435022 - X4H0376-01	
EPA 200.7	Beryllium	mg/L	0.982	0.964	1.00	1.8	20	98.2	X435022 - X4H0376-01	
EPA 200.7	Boron	mg/L	1.00	1.01	1.00	0.3	20	98.6	X435022 - X4H0376-01	
EPA 200.7	Cadmium	mg/L	0.968	0.973	1.00	0.6	20	96.8	X435022 - X4H0376-01	
EPA 200.7	Calcium	mg/L	71.4	70.4	20.0	1.4	20	98.6	X435022 - X4H0376-01	
EPA 200.7	Chromium	mg/L	0.980	0.986	1.00	0.6	20	98.0	X435022 - X4H0376-01	
EPA 200.7	Cobalt	mg/L	0.938	0.942	1.00	0.4	20	93.8	X435022 - X4H0376-01	
EPA 200.7	Copper	mg/L	0.962	0.970	1.00	0.7	20	95.9	X435022 - X4H0376-01	
EPA 200.7	Iron	mg/L	10.3	10.2	10.0	0.7	20	103	X435022 - X4H0376-01	
EPA 200.7	Lead	mg/L	0.926	0.946	1.00	2.1	20	92.6	X435022 - X4H0376-01	

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Post Office Box 191
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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0406**
Reported: 09-Sep-24 09:45

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Lithium	mg/L	0.972	0.964	1.00	0.8	20	97.2	X435022 - X4H0376-01	
EPA 200.7	Magnesium	mg/L	25.6	25.6	20.0	0.2	20	96.6	X435022 - X4H0376-01	
EPA 200.7	Manganese	mg/L	0.972	0.978	1.00	0.6	20	96.6	X435022 - X4H0376-01	
EPA 200.7	Molybdenum	mg/L	0.982	0.983	1.00	0.1	20	98.2	X435022 - X4H0376-01	
EPA 200.7	Nickel	mg/L	0.925	0.929	1.00	0.5	20	92.5	X435022 - X4H0376-01	
EPA 200.7	Potassium	mg/L	21.7	21.3	20.0	1.9	20	105	X435022 - X4H0376-01	
EPA 200.7	Silver	mg/L	0.0501	0.0504	0.0500	0.6	20	100	X435022 - X4H0376-01	
EPA 200.7	Sodium	mg/L	43.5	43.0	19.0	1.2	20	98.2	X435022 - X4H0376-01	
EPA 200.7	Vanadium	mg/L	0.979	0.986	1.00	0.8	20	97.9	X435022 - X4H0376-01	
EPA 200.7	Zinc	mg/L	0.968	0.977	1.00	0.9	20	96.8	X435022 - X4H0376-01	
EPA 200.8	Antimony	mg/L	0.0261	0.0259	0.0250	0.8	20	104	X435071 - X4H0362-01	
EPA 200.8	Arsenic	mg/L	0.0316	0.0308	0.0250	2.7	20	115	X435071 - X4H0362-01	
EPA 200.8	Selenium	mg/L	0.0276	0.0273	0.0250	1.2	20	108	X435071 - X4H0362-01	
EPA 200.8	Thallium	mg/L	0.0305	0.0304	0.0250	0.5	20	121	X435071 - X4H0362-01	
EPA 200.8	Uranium	mg/L	0.0364	0.0358	0.0250	1.7	20	130	X435071 - X4H0362-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00217	0.00218	0.00200	0.1	20	109	X434037 - X4H0241-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0920	0.0980	0.100	6.3	11	92.0	X435206 - X4H0406-01	
EPA 335.4	Cyanide (total)	mg/L	0.106	0.108	0.100	1.8	20	106	X434282 - X4H0346-01	
EPA 350.1	Ammonia as N	mg/L	1.06	1.07	1.00	0.2	20	104	X435119 - X4H0346-01	B10
OIA 1677	Cyanide (WAD)	mg/L	0.118	0.117	0.100	0.9	11	111	X436133 - X4H0346-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.39	3.28	3.00	3.4	20	104	X434222 - X4H0411-01	
EPA 300.0	Fluoride	mg/L	2.09	2.03	2.00	2.9	20	103	X434222 - X4H0411-01	
EPA 300.0	Nitrate as N	mg/L	2.15	2.09	2.00	2.6	20	104	X434222 - X4H0411-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.21	4.09	4.00	2.8	20	103	X434222 - X4H0411-01	
EPA 300.0	Nitrite as N	mg/L	2.06	2.00	2.00	2.9	20	103	X434222 - X4H0411-01	
EPA 300.0	Sulfate as SO4	mg/L	14.8	14.5	10.0	1.9	20	104	X434222 - X4H0411-01	

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4H0406**
Victor, CO 80860	Reported: 09-Sep-24 09:45

Notes and Definitions

B10	Target analyte detected in method blank above laboratory acceptance limit but below reporting limit.
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.
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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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4I0154**
Victor, CO 80860	Reported: 25-Sep-24 08:55

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
RB-0909	X4I0154-01	Ground Water	09-Sep-24 13:40	TR	11-Sep-2024	
GVMW-126G	X4I0154-02	Ground Water	09-Sep-24 12:25	TR	11-Sep-2024	

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: X4I0154

The state of origin only accredits for drinking water analyses.

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

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Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0154**
Reported: 25-Sep-24 08:55

Client Sample ID: **RB-0909**
SVL Sample ID: **X4I0154-01 (Ground Water)**

Sampled: 09-Sep-24 13:40
Received: 11-Sep-24
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**	0.513	mg/L	0.100	0.069		X438157	SJN	09/23/24 15:48	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X438157	SJN	09/23/24 15:48	
EPA 200.7	**Potassium**	1.06	mg/L	0.50	0.18		X438157	SJN	09/23/24 15:48	
SM 2340 B	Hardness (as CaCO3)	< 2.31	mg/L	2.31	0.543		N/A		09/23/24 15:48	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X439009	SJN	09/23/24 11:31	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X439009	SJN	09/23/24 11:31	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X439009	SJN	09/23/24 11:31	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X439009	SJN	09/23/24 11:31	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X439009	SJN	09/23/24 11:31	
EPA 200.7	**Calcium**	0.201	mg/L	0.100	0.069		X439009	SJN	09/23/24 11:31	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X439009	SJN	09/23/24 11:31	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X439009	SJN	09/23/24 11:31	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X439009	SJN	09/23/24 11:31	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X439009	SJN	09/23/24 11:31	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X439009	SJN	09/23/24 11:31	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X439009	SJN	09/23/24 11:31	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X439009	SJN	09/23/24 11:31	
EPA 200.7	**Manganese**	0.0164	mg/L	0.0080	0.0034		X439009	SJN	09/23/24 11:31	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X439009	SJN	09/23/24 11:31	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X439009	SJN	09/23/24 11:31	
EPA 200.7	**Potassium**	1.05	mg/L	0.50	0.18		X439009	SJN	09/23/24 11:31	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X439009	SJN	09/23/24 11:31	
EPA 200.7	**Sodium**	0.64	mg/L	0.50	0.12		X439009	SJN	09/23/24 11:31	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X439009	SJN	09/23/24 11:31	
EPA 200.7	**Zinc**	0.0113	mg/L	0.0100	0.0054		X439009	SJN	09/23/24 11:31	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X437193	JRR	09/17/24 10:25	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X437193	JRR	09/17/24 10:25	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X437193	JRR	09/17/24 10:25	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X437193	JRR	09/17/24 10:25	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X437193	JRR	09/17/24 10:25	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X437205	MAC	09/20/24 15:33	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X437239	DD	09/19/24 15:13	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X438003	DD	09/16/24 13:04	
EPA 350.1	**Ammonia as N**	0.057	mg/L	0.030	0.013		X437176	DD	09/13/24 14:56	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X438183	DD	09/20/24 11:41	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X438150	MWD	09/23/24 07:30	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X437221	MWD	09/13/24 18:37	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X437221	MWD	09/13/24 18:37	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X437221	MWD	09/13/24 18:37	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X437221	MWD	09/13/24 18:37	
SM 2540 C	Total Diss. Solids	< 10	mg/L	10			X437195	TJL	09/16/24 13:20	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X437198	TJL	09/16/24 14:50	
SM 4500 H B	**pH @19.9°C**	5.5	pH Units				X437221	MWD	09/13/24 18:37	H5

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0154**
Reported: 25-Sep-24 08:55

Client Sample ID: **RB-0909**
SVL Sample ID: **X4I0154-01 (Ground Water)**

Sampled: 09-Sep-24 13:40
Received: 11-Sep-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	0.73	mg/L	0.20	0.02		X437126	RS	09/11/24 11:59	
EPA 300.0	**Fluoride**	0.255	mg/L	0.100	0.017		X437126	RS	09/11/24 11:59	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X437126	RS	09/11/24 11:59	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X437126	RS	09/11/24 11:59	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X437126	RS	09/11/24 11:59	
EPA 300.0	**Sulfate as SO4**	0.34	mg/L	0.30	0.18		X437126	RS	09/11/24 11:59	

Cation/Anion Balance and TDS Ratios

Cation Sum: 0.09 meq/L Anion Sum: 0.06 meq/L C/A Balance: 16.05 % Calculated TDS: 3 TDS/cTDS: 0.00

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0154**
Reported: 25-Sep-24 08:55

Client Sample ID: **GVMW-126G**
SVL Sample ID: **X4I0154-02 (Ground Water)**

Sampled: 09-Sep-24 12:25
Received: 11-Sep-24
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**	10.1	mg/L	0.100	0.069		X438157	SJN	09/23/24 16:03	
EPA 200.7	**Magnesium**	2.12	mg/L	0.500	0.090		X438157	SJN	09/23/24 16:03	
EPA 200.7	**Potassium**	0.75	mg/L	0.50	0.18		X438157	SJN	09/23/24 16:03	
SM 2340 B	**Hardness (as CaCO3)**	34.0	mg/L	2.31	0.543		N/A		09/23/24 11:42	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X439009	SJN	09/23/24 11:42	
EPA 200.7	**Barium**	0.0986	mg/L	0.0020	0.0019		X439009	SJN	09/23/24 11:42	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X439009	SJN	09/23/24 11:42	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X439009	SJN	09/23/24 11:42	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X439009	SJN	09/23/24 11:42	
EPA 200.7	**Calcium**	10.4	mg/L	0.100	0.069		X439009	SJN	09/23/24 11:42	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X439009	SJN	09/23/24 11:42	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X439009	SJN	09/23/24 11:42	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X439009	SJN	09/23/24 11:42	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X439009	SJN	09/23/24 11:42	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X439009	SJN	09/23/24 11:42	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X439009	SJN	09/23/24 11:42	
EPA 200.7	**Magnesium**	2.08	mg/L	0.500	0.090		X439009	SJN	09/23/24 11:42	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X439009	SJN	09/23/24 11:42	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X439009	SJN	09/23/24 11:42	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X439009	SJN	09/23/24 11:42	
EPA 200.7	**Potassium**	0.66	mg/L	0.50	0.18		X439009	SJN	09/23/24 11:42	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X439009	SJN	09/23/24 11:42	
EPA 200.7	**Sodium**	10.0	mg/L	0.50	0.12		X439009	SJN	09/23/24 11:42	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X439009	SJN	09/23/24 11:42	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X439009	SJN	09/23/24 11:42	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X437193	JRR	09/17/24 10:27	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X437193	JRR	09/17/24 10:27	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X437193	JRR	09/17/24 10:27	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X437193	JRR	09/17/24 10:27	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X437193	JRR	09/17/24 10:27	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X437205	MAC	09/20/24 15:35	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X437239	DD	09/19/24 15:15	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X438003	DD	09/16/24 13:05	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X437176	DD	09/13/24 14:58	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X438183	DD	09/20/24 11:47	
SM 2310 B	**Acidity to pH 8.3**	-28.3	mg/L as CaCO3	10.0			X438150	MWD	09/23/24 07:30	
SM 2320 B	**Total Alkalinity**	33.6	mg/L as CaCO3	1.0			X437221	MWD	09/13/24 18:41	
SM 2320 B	**Bicarbonate**	33.6	mg/L as CaCO3	1.0			X437221	MWD	09/13/24 18:41	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X437221	MWD	09/13/24 18:41	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X437221	MWD	09/13/24 18:41	
SM 2540 C	**Total Diss. Solids**	90	mg/L	10			X437195	TJL	09/16/24 13:20	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X437198	TJL	09/16/24 14:50	
SM 4500 H B	**pH @19.9°C**	6.7	pH Units				X437221	MWD	09/13/24 18:41	H5

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

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Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0154**
Reported: 25-Sep-24 08:55

Client Sample ID: **GVMW-126G**
SVL Sample ID: **X4I0154-02 (Ground Water)**

Sampled: 09-Sep-24 12:25
Received: 11-Sep-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	1.94	mg/L	0.20	0.02		X437126	RS	09/11/24 12:36	
EPA 300.0	**Fluoride**	0.222	mg/L	0.100	0.017		X437126	RS	09/11/24 12:36	
EPA 300.0	**Nitrate as N**	0.737	mg/L	0.050	0.013		X437126	RS	09/11/24 12:36	H3
EPA 300.0	**Nitrate+Nitrite as N**	0.737	mg/L	0.100	0.044		X437126	RS	09/11/24 12:36	H3
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X437126	RS	09/11/24 12:36	H3
EPA 300.0	**Sulfate as SO4**	21.6	mg/L	0.30	0.18		X437126	RS	09/11/24 12:36	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 1.14 meq/L Anion Sum: 1.24 meq/L C/A Balance: -4.15 % Calculated TDS: 70 TDS/cTDS: 1.28

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0154**
Reported: 25-Sep-24 08:55

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	X438157	23-Sep-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X438157	23-Sep-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X438157	23-Sep-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X439009	23-Sep-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X439009	23-Sep-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X439009	23-Sep-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X439009	23-Sep-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X439009	23-Sep-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X439009	23-Sep-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X439009	23-Sep-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X439009	23-Sep-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X439009	23-Sep-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X439009	23-Sep-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X439009	23-Sep-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X439009	23-Sep-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X439009	23-Sep-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X439009	23-Sep-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X439009	23-Sep-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X439009	23-Sep-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X439009	23-Sep-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X439009	23-Sep-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X439009	23-Sep-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X439009	23-Sep-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X439009	23-Sep-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X437193	17-Sep-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X437193	17-Sep-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X437193	17-Sep-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X437193	17-Sep-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X437193	17-Sep-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X437205	20-Sep-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X437239	19-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X438003	16-Sep-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X437176	13-Sep-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X438183	20-Sep-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X438150	23-Sep-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X437221	13-Sep-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X437221	13-Sep-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X437221	13-Sep-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X437221	13-Sep-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X437195	16-Sep-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X437198	16-Sep-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X437126	11-Sep-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X437126	11-Sep-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X437126	11-Sep-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X437126	11-Sep-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X437126	11-Sep-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X437126	11-Sep-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0154**
Reported: 25-Sep-24 08:55

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	18.8	20.0	94	85 - 115	X438157	23-Sep-24	
EPA 200.7	Magnesium	mg/L	19.5	20.0	97.6	85 - 115	X438157	23-Sep-24	
EPA 200.7	Potassium	mg/L	19.1	20.0	95.5	85 - 115	X438157	23-Sep-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	1.00	1.00	100	85 - 115	X439009	23-Sep-24	
EPA 200.7	Barium	mg/L	0.985	1.00	98.5	85 - 115	X439009	23-Sep-24	
EPA 200.7	Beryllium	mg/L	1.04	1.00	104	85 - 115	X439009	23-Sep-24	
EPA 200.7	Boron	mg/L	0.984	1.00	98.4	85 - 115	X439009	23-Sep-24	
EPA 200.7	Cadmium	mg/L	0.978	1.00	97.8	85 - 115	X439009	23-Sep-24	
EPA 200.7	Calcium	mg/L	19.6	20.0	97.8	85 - 115	X439009	23-Sep-24	
EPA 200.7	Chromium	mg/L	0.997	1.00	99.7	85 - 115	X439009	23-Sep-24	
EPA 200.7	Cobalt	mg/L	0.961	1.00	96.1	85 - 115	X439009	23-Sep-24	
EPA 200.7	Copper	mg/L	1.00	1.00	100	85 - 115	X439009	23-Sep-24	
EPA 200.7	Iron	mg/L	9.95	10.0	99.5	85 - 115	X439009	23-Sep-24	
EPA 200.7	Lead	mg/L	0.972	1.00	97.2	85 - 115	X439009	23-Sep-24	
EPA 200.7	Lithium	mg/L	0.939	1.00	93.9	85 - 115	X439009	23-Sep-24	
EPA 200.7	Magnesium	mg/L	19.2	20.0	95.9	85 - 115	X439009	23-Sep-24	
EPA 200.7	Manganese	mg/L	0.992	1.00	99.2	85 - 115	X439009	23-Sep-24	
EPA 200.7	Molybdenum	mg/L	0.995	1.00	99.5	85 - 115	X439009	23-Sep-24	
EPA 200.7	Nickel	mg/L	0.971	1.00	97.1	85 - 115	X439009	23-Sep-24	
EPA 200.7	Potassium	mg/L	19.6	20.0	98.1	85 - 115	X439009	23-Sep-24	
EPA 200.7	Silver	mg/L	0.0524	0.0500	105	85 - 115	X439009	23-Sep-24	
EPA 200.7	Sodium	mg/L	19.1	19.0	101	85 - 115	X439009	23-Sep-24	
EPA 200.7	Vanadium	mg/L	1.01	1.00	101	85 - 115	X439009	23-Sep-24	
EPA 200.7	Zinc	mg/L	0.986	1.00	98.6	85 - 115	X439009	23-Sep-24	
EPA 200.8	Antimony	mg/L	0.0249	0.0250	99.7	85 - 115	X437193	17-Sep-24	
EPA 200.8	Arsenic	mg/L	0.0246	0.0250	98.4	85 - 115	X437193	17-Sep-24	
EPA 200.8	Selenium	mg/L	0.0254	0.0250	101	85 - 115	X437193	17-Sep-24	
EPA 200.8	Thallium	mg/L	0.0250	0.0250	100	85 - 115	X437193	17-Sep-24	
EPA 200.8	Uranium	mg/L	0.0260	0.0250	104	85 - 115	X437193	17-Sep-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00183	0.00200	91.5	85 - 115	X437205	20-Sep-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.101	0.100	101	90 - 110	X437239	19-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.109	0.100	109	90 - 110	X438003	16-Sep-24	
EPA 350.1	Ammonia as N	mg/L	0.948	1.00	94.8	90 - 110	X437176	13-Sep-24	
OIA 1677	Cyanide (WAD)	mg/L	0.103	0.100	103	90 - 110	X438183	20-Sep-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	868	884	98.1	95.4 - 104	X438150	23-Sep-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.60	9.93	96.7	96.4 - 105	X437221	13-Sep-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	100	99.3	101	96.4 - 105	X437221	13-Sep-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	402	397	101	96.4 - 105	X437221	13-Sep-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X437198	16-Sep-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.14	3.00	105	90 - 110	X437126	11-Sep-24	
EPA 300.0	Fluoride	mg/L	2.07	2.00	103	90 - 110	X437126	11-Sep-24	
EPA 300.0	Nitrate as N	mg/L	2.11	2.00	105	90 - 110	X437126	11-Sep-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.75	4.50	106	90 - 110	X437126	11-Sep-24	
EPA 300.0	Nitrite as N	mg/L	2.64	2.50	106	90 - 110	X437126	11-Sep-24	
EPA 300.0	Sulfate as SO4	mg/L	10.7	10.0	107	90 - 110	X437126	11-Sep-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0154**
Reported: 25-Sep-24 08:55

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	X438150 - X4I0153-01	23-Sep-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	32.9	32.9	0.0	20	X437221 - X4I0153-02	13-Sep-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	32.9	32.9	0.0	20	X437221 - X4I0153-02	13-Sep-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X437221 - X4I0153-02	13-Sep-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X437221 - X4I0153-02	13-Sep-24	
SM 2540 C	Total Diss. Solids	mg/L	207	212	2.4	10	X437195 - X4I0153-03	16-Sep-24	
SM 2540 C	Total Diss. Solids	mg/L	320	329	2.8	10	X437195 - X4I0168-02	16-Sep-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X437198 - X4I0153-03	16-Sep-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X437198 - X4I0168-02	16-Sep-24	
SM 4500 H B	pH @19.9°C	pH Units	6.6	6.6	0.3	20	X437221 - X4I0153-02	13-Sep-24	

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	47.6	28.7	20.0	95	70 - 130	X438157 - X4I0153-01	23-Sep-24	
EPA 200.7	Calcium	mg/L	149	130	20.0	95	70 - 130	X438157 - X4I0197-04	23-Sep-24	
EPA 200.7	Magnesium	mg/L	27.1	6.75	20.0	102	70 - 130	X438157 - X4I0153-01	23-Sep-24	
EPA 200.7	Magnesium	mg/L	20.7	<0.500	20.0	104	70 - 130	X438157 - X4I0197-04	23-Sep-24	
EPA 200.7	Potassium	mg/L	20.2	1.07	20.0	95.7	70 - 130	X438157 - X4I0153-01	23-Sep-24	
EPA 200.7	Potassium	mg/L	33.1	13.4	20.0	98.7	70 - 130	X438157 - X4I0197-04	23-Sep-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	<0.080	1.00	101	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Aluminum	mg/L	1.02	<0.080	1.00	102	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Barium	mg/L	1.18	0.196	1.00	98.5	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Barium	mg/L	1.09	0.101	1.00	98.9	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Beryllium	mg/L	1.02	<0.00200	1.00	102	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Beryllium	mg/L	1.02	<0.00200	1.00	102	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Boron	mg/L	1.01	<0.0400	1.00	98.8	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Boron	mg/L	0.996	<0.0400	1.00	98.7	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Cadmium	mg/L	0.987	<0.0020	1.00	98.7	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Cadmium	mg/L	0.983	<0.0020	1.00	98.3	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Calcium	mg/L	48.3	29.4	20.0	94.9	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Calcium	mg/L	29.9	10.4	20.0	97.5	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Chromium	mg/L	0.984	<0.0060	1.00	98.4	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Chromium	mg/L	0.993	<0.0060	1.00	99.3	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Cobalt	mg/L	0.966	<0.0060	1.00	96.6	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Cobalt	mg/L	0.956	<0.0060	1.00	95.6	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Copper	mg/L	0.974	<0.0100	1.00	97.4	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Copper	mg/L	0.976	<0.0100	1.00	97.6	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Iron	mg/L	9.73	<0.100	10.0	97.3	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Iron	mg/L	10.0	<0.100	10.0	100	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Lead	mg/L	0.983	<0.0075	1.00	98.3	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Lead	mg/L	0.975	<0.0075	1.00	97.5	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Lithium	mg/L	0.981	<0.040	1.00	98.1	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Lithium	mg/L	0.934	<0.040	1.00	93.4	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Magnesium	mg/L	26.2	6.70	20.0	97.3	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Magnesium	mg/L	21.7	2.10	20.0	98.1	70 - 130	X439009 - X4I0153-02	23-Sep-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0154**
Reported: 25-Sep-24 08:55

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	0.987	<0.0080	1.00	98.0	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Manganese	mg/L	0.987	<0.0080	1.00	98.7	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Molybdenum	mg/L	1.01	<0.0080	1.00	100	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Molybdenum	mg/L	0.987	<0.0080	1.00	98.7	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Nickel	mg/L	0.966	<0.0100	1.00	96.6	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Nickel	mg/L	0.957	<0.0100	1.00	95.7	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Potassium	mg/L	20.1	0.95	20.0	95.6	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Potassium	mg/L	20.5	0.78	20.0	98.6	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Silver	mg/L	0.0539	<0.0050	0.0500	108	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Silver	mg/L	0.0533	<0.0050	0.0500	107	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Sodium	mg/L	49.6	31.6	19.0	95.1	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Sodium	mg/L	28.9	10.1	19.0	98.8	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Vanadium	mg/L	1.00	<0.0050	1.00	100	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Vanadium	mg/L	1.00	<0.0050	1.00	100	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Zinc	mg/L	1.01	<0.0100	1.00	101	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Zinc	mg/L	1.00	<0.0100	1.00	100	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.8	Antimony	mg/L	0.0263	<0.00100	0.0250	102	70 - 130	X437193 - X4I0082-01	17-Sep-24	
EPA 200.8	Antimony	mg/L	0.0247	<0.00100	0.0250	98.7	70 - 130	X437193 - X4I0153-02	17-Sep-24	
EPA 200.8	Arsenic	mg/L	0.0242	<0.00100	0.0250	96.1	70 - 130	X437193 - X4I0082-01	17-Sep-24	
EPA 200.8	Arsenic	mg/L	0.0257	<0.00100	0.0250	103	70 - 130	X437193 - X4I0153-02	17-Sep-24	
EPA 200.8	Selenium	mg/L	0.0276	0.00456	0.0250	92.2	70 - 130	X437193 - X4I0082-01	17-Sep-24	
EPA 200.8	Selenium	mg/L	0.0269	<0.00100	0.0250	106	70 - 130	X437193 - X4I0153-02	17-Sep-24	
EPA 200.8	Thallium	mg/L	0.0234	<0.000200	0.0250	93.6	70 - 130	X437193 - X4I0082-01	17-Sep-24	
EPA 200.8	Thallium	mg/L	0.0239	<0.000200	0.0250	95.4	70 - 130	X437193 - X4I0153-02	17-Sep-24	
EPA 200.8	Uranium	mg/L	0.0757	0.0526	0.0250	92.3	70 - 130	X437193 - X4I0082-01	17-Sep-24	
EPA 200.8	Uranium	mg/L	0.0240	<0.000100	0.0250	95.8	70 - 130	X437193 - X4I0153-02	17-Sep-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00200	<0.000200	0.00200	100	70 - 130	X437205 - X4I0108-01	20-Sep-24	
EPA 245.1	Mercury	mg/L	0.00201	<0.000200	0.00200	100	70 - 130	X437205 - X4I0153-03	20-Sep-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.103	<0.0050	0.100	103	79 - 121	X437239 - X4I0138-01	19-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.0989	<0.0050	0.100	98.9	90 - 110	X438003 - X4I0153-01	17-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.0987	<0.0050	0.100	98.7	90 - 110	X438003 - X4I0153-02	17-Sep-24	
EPA 350.1	Ammonia as N	mg/L	1.04	<0.030	1.00	102	90 - 110	X437176 - X4I0133-02	13-Sep-24	
EPA 350.1	Ammonia as N	mg/L	1.09	0.099	1.00	98.8	90 - 110	X437176 - X4I0133-01	13-Sep-24	
OIA 1677	Cyanide (WAD)	mg/L	0.100	0.0050	0.100	95.0	82 - 118	X438183 - X4I0082-01	20-Sep-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.29	0.20	3.00	103	90 - 110	X437126 - X4I0125-01	11-Sep-24	
EPA 300.0	Chloride	mg/L	3.92	0.73	3.00	107	90 - 110	X437126 - X4I0154-01	11-Sep-24	
EPA 300.0	Fluoride	mg/L	2.11	<0.100	2.00	103	90 - 110	X437126 - X4I0125-01	11-Sep-24	
EPA 300.0	Fluoride	mg/L	2.30	0.255	2.00	102	90 - 110	X437126 - X4I0154-01	11-Sep-24	
EPA 300.0	Nitrate as N	mg/L	2.13	0.070	2.00	103	90 - 110	X437126 - X4I0125-01	11-Sep-24	
EPA 300.0	Nitrate as N	mg/L	2.07	<0.050	2.00	102	90 - 110	X437126 - X4I0154-01	11-Sep-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.21	<0.100	4.00	104	90 - 110	X437126 - X4I0125-01	11-Sep-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.17	<0.100	4.00	104	90 - 110	X437126 - X4I0154-01	11-Sep-24	
EPA 300.0	Nitrite as N	mg/L	2.08	<0.050	2.00	104	90 - 110	X437126 - X4I0125-01	11-Sep-24	
EPA 300.0	Nitrite as N	mg/L	2.09	<0.050	2.00	105	90 - 110	X437126 - X4I0154-01	11-Sep-24	
EPA 300.0	Sulfate as SO4	mg/L	12.7	1.69	10.0	110	90 - 110	X437126 - X4I0125-01	11-Sep-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0154**
Reported: 25-Sep-24 08:55

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	10.9	0.34	10.0	105	90 - 110	X437126 - X4I0154-01	11-Sep-24	

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	48.4	47.6	20.0	2.0	20	99	X438157 - X4I0153-01	
EPA 200.7	Magnesium	mg/L	27.6	27.1	20.0	2.0	20	104	X438157 - X4I0153-01	
EPA 200.7	Potassium	mg/L	20.6	20.2	20.0	1.9	20	97.6	X438157 - X4I0153-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	1.01	1.00	0.5	20	101	X439009 - X4I0153-01	
EPA 200.7	Barium	mg/L	1.17	1.18	1.00	0.6	20	97.8	X439009 - X4I0153-01	
EPA 200.7	Beryllium	mg/L	1.02	1.02	1.00	0.4	20	102	X439009 - X4I0153-01	
EPA 200.7	Boron	mg/L	1.01	1.01	1.00	0.3	20	99.0	X439009 - X4I0153-01	
EPA 200.7	Cadmium	mg/L	0.975	0.987	1.00	1.2	20	97.5	X439009 - X4I0153-01	
EPA 200.7	Calcium	mg/L	48.7	48.3	20.0	0.7	20	96.6	X439009 - X4I0153-01	
EPA 200.7	Chromium	mg/L	0.986	0.984	1.00	0.2	20	98.6	X439009 - X4I0153-01	
EPA 200.7	Cobalt	mg/L	0.953	0.966	1.00	1.4	20	95.3	X439009 - X4I0153-01	
EPA 200.7	Copper	mg/L	0.974	0.974	1.00	0.0	20	97.4	X439009 - X4I0153-01	
EPA 200.7	Iron	mg/L	9.97	9.73	10.0	2.4	20	99.7	X439009 - X4I0153-01	
EPA 200.7	Lead	mg/L	0.974	0.983	1.00	0.9	20	97.4	X439009 - X4I0153-01	
EPA 200.7	Lithium	mg/L	0.977	0.981	1.00	0.3	20	97.7	X439009 - X4I0153-01	
EPA 200.7	Magnesium	mg/L	26.7	26.2	20.0	1.9	20	99.8	X439009 - X4I0153-01	
EPA 200.7	Manganese	mg/L	0.986	0.987	1.00	0.1	20	98.0	X439009 - X4I0153-01	
EPA 200.7	Molybdenum	mg/L	0.999	1.01	1.00	0.6	20	99.5	X439009 - X4I0153-01	
EPA 200.7	Nickel	mg/L	0.953	0.966	1.00	1.4	20	95.3	X439009 - X4I0153-01	
EPA 200.7	Potassium	mg/L	20.7	20.1	20.0	2.9	20	98.5	X439009 - X4I0153-01	
EPA 200.7	Silver	mg/L	0.0530	0.0539	0.0500	1.6	20	106	X439009 - X4I0153-01	
EPA 200.7	Sodium	mg/L	49.9	49.6	19.0	0.6	20	96.7	X439009 - X4I0153-01	
EPA 200.7	Vanadium	mg/L	1.00	1.00	1.00	0.4	20	100	X439009 - X4I0153-01	
EPA 200.7	Zinc	mg/L	1.00	1.01	1.00	1.0	20	100	X439009 - X4I0153-01	
EPA 200.8	Antimony	mg/L	0.0265	0.0263	0.0250	1.1	20	103	X437193 - X4I0082-01	
EPA 200.8	Arsenic	mg/L	0.0245	0.0242	0.0250	1.2	20	97.2	X437193 - X4I0082-01	
EPA 200.8	Selenium	mg/L	0.0269	0.0276	0.0250	2.7	20	89.2	X437193 - X4I0082-01	
EPA 200.8	Thallium	mg/L	0.0233	0.0234	0.0250	0.6	20	93.0	X437193 - X4I0082-01	
EPA 200.8	Uranium	mg/L	0.0753	0.0757	0.0250	0.5	20	90.7	X437193 - X4I0082-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00198	0.00200	0.00200	1.0	20	99.2	X437205 - X4I0108-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.102	0.103	0.100	1.0	11	102	X437239 - X4I0138-01	
EPA 335.4	Cyanide (total)	mg/L	0.106	0.0989	0.100	7.2	20	106	X438003 - X4I0153-01	
EPA 350.1	Ammonia as N	mg/L	1.00	1.04	1.00	3.7	20	98.6	X437176 - X4I0133-02	
OIA 1677	Cyanide (WAD)	mg/L	0.110	0.100	0.100	9.5	11	105	X438183 - X4I0082-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.36	3.29	3.00	2.3	20	105	X437126 - X4I0125-01	
EPA 300.0	Fluoride	mg/L	2.16	2.11	2.00	2.4	20	105	X437126 - X4I0125-01	
EPA 300.0	Nitrate as N	mg/L	2.18	2.13	2.00	2.4	20	106	X437126 - X4I0125-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.31	4.21	4.00	2.3	20	106	X437126 - X4I0125-01	
EPA 300.0	Nitrite as N	mg/L	2.13	2.08	2.00	2.3	20	107	X437126 - X4I0125-01	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0154**
Reported: 25-Sep-24 08:55

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Anions by Ion Chromatography (Continued)										
EPA 300.0	Sulfate as SO4	mg/L	12.9	12.7	10.0	2.0	20	112	X437126 - X4I0125-01	M1

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4I0154**
Victor, CO 80860	Reported: 25-Sep-24 08:55

Notes and Definitions

H3	Sample was received and/or analysis requested past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
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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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4I0262**
Victor, CO 80860	Reported: 01-Oct-24 16:39

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
RB-0916	X4I0262-01	Ground Water	16-Sep-24 10:46	TR	17-Sep-2024	
GVMW-125E	X4I0262-02	Ground Water	16-Sep-24 12:38	TR	17-Sep-2024	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: X4I0262

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: **X4I0262**
Reported: 01-Oct-24 16:39

Client Sample ID: **RB-0916**
SVL Sample ID: **X4I0262-01 (Ground Water)**

Sampled: 16-Sep-24 10:46
Received: 17-Sep-24
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	< 0.100	mg/L	0.100	0.069		X438196	SJN	09/25/24 16:24	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X438196	SJN	09/25/24 16:24	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X438196	SJN	09/25/24 16:24	
SM 2340 B	Hardness (as CaCO3)	< 2.31	mg/L	2.31	0.543		N/A		09/23/24 12:11	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X439009	SJN	09/23/24 12:11	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X439009	SJN	09/23/24 12:11	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X439009	SJN	09/23/24 12:11	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X439009	SJN	09/23/24 12:11	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X439009	SJN	09/23/24 12:11	
EPA 200.7	**Calcium**	0.146	mg/L	0.100	0.069		X439009	SJN	09/23/24 12:11	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X439009	SJN	09/23/24 12:11	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X439009	SJN	09/23/24 12:11	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X439009	SJN	09/23/24 12:11	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X439009	SJN	09/23/24 12:11	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X439009	SJN	09/23/24 12:11	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X439009	SJN	09/23/24 12:11	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X439009	SJN	09/23/24 12:11	
EPA 200.7	**Manganese**	0.0152	mg/L	0.0080	0.0034		X439009	SJN	09/23/24 12:11	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X439009	SJN	09/23/24 12:11	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X439009	SJN	09/23/24 12:11	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X439009	SJN	09/23/24 12:11	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X439009	SJN	09/23/24 12:11	
EPA 200.7	Sodium	< 0.50	mg/L	0.50	0.12		X439009	SJN	09/23/24 12:11	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X439009	SJN	09/23/24 12:11	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X439009	SJN	09/23/24 12:11	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X438092	SMU	09/23/24 17:02	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X438092	SMU	09/23/24 17:02	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X438092	SMU	09/23/24 17:02	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X438092	SMU	09/23/24 17:02	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X438092	SMU	09/23/24 17:02	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X437234	MAC	09/23/24 16:55	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @20.0°C	< 0.0050	mg/L	0.0050	0.0048		X439153	DD	09/30/24 14:15	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X439001	DD	09/24/24 10:28	
EPA 350.1	**Ammonia as N**	0.032	mg/L	0.030	0.013		X438185	DD	09/23/24 11:22	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X438184	DD	09/20/24 12:18	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X438151	MWD	09/23/24 07:29	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X438102	MWD	09/18/24 11:42	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X438102	MWD	09/18/24 11:42	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X438102	MWD	09/18/24 11:42	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X438102	MWD	09/18/24 11:42	
SM 2540 C	Total Diss. Solids	< 10	mg/L	10			X438076	TJL	09/19/24 13:50	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X438078	TJL	09/20/24 14:00	
SM 4500 H B	**pH @20.6°C**	5.4	pH Units				X438102	MWD	09/18/24 11:42	H5

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

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Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0262**
Reported: 01-Oct-24 16:39

Client Sample ID: **RB-0916**
SVL Sample ID: **X4I0262-01 (Ground Water)**

Sampled: 16-Sep-24 10:46
Received: 17-Sep-24
Sampled By: TR

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		X438048	RS	09/17/24 17:00	
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.017		X438048	RS	09/17/24 17:00	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X438048	RS	09/17/24 17:00	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X438048	RS	09/17/24 17:00	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X438048	RS	09/17/24 17:00	
EPA 300.0	**Sulfate as SO4**	0.55	mg/L	0.30	0.18		X438048	RS	09/17/24 17:00	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 0.04 meq/L Anion Sum: 0.04 meq/L C/A Balance: -0.98 % Calculated TDS: 1 TDS/cTDS: 0.00

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0262**
Reported: 01-Oct-24 16:39

Client Sample ID: **GVMW-125E**
SVL Sample ID: **X4I0262-02 (Ground Water)**

Sampled: 16-Sep-24 12:38
Received: 17-Sep-24
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		X438196	SJN	09/25/24 16:27	
EPA 200.7	**Magnesium**	408	mg/L	0.500	0.090		X438196	SJN	09/25/24 16:27	
EPA 200.7	**Potassium**	6.61	mg/L	0.50	0.18		X438196	SJN	09/25/24 16:27	
SM 2340 B	**Hardness (as CaCO3)**	2810	mg/L	2.31	0.543		N/A		09/25/24 16:27	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	1010	mg/L	0.800	0.540	10	X439009	SJN	09/23/24 12:43	
EPA 200.7	**Barium**	0.0146	mg/L	0.0020	0.0019		X439009	SJN	09/23/24 12:14	
EPA 200.7	**Beryllium**	0.653	mg/L	0.00200	0.00080		X439009	SJN	09/23/24 12:14	
EPA 200.7	**Boron**	0.0430	mg/L	0.0400	0.0078		X439009	SJN	09/23/24 12:14	
EPA 200.7	**Cadmium**	1.80	mg/L	0.0020	0.0016		X439009	SJN	09/23/24 12:14	
EPA 200.7	**Calcium**	518	mg/L	0.100	0.069		X439009	SJN	09/23/24 12:14	
EPA 200.7	**Chromium**	0.121	mg/L	0.0060	0.0020		X439009	SJN	09/23/24 12:14	
EPA 200.7	**Cobalt**	2.12	mg/L	0.0060	0.0046		X439009	SJN	09/23/24 12:14	
EPA 200.7	**Copper**	4.14	mg/L	0.0100	0.0027		X439009	SJN	09/23/24 12:14	
EPA 200.7	**Iron**	6.27	mg/L	0.100	0.056		X439009	SJN	09/23/24 12:14	
EPA 200.7	**Lead**	0.0396	mg/L	0.0075	0.0049		X439009	SJN	09/23/24 12:14	
EPA 200.7	**Lithium**	0.196	mg/L	0.040	0.025		X439009	SJN	09/23/24 12:14	
EPA 200.7	**Magnesium**	427	mg/L	0.500	0.090		X439009	SJN	09/23/24 12:14	
EPA 200.7	**Manganese**	259	mg/L	0.0800	0.0340	10	X439009	SJN	09/23/24 12:43	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X439009	SJN	09/23/24 12:14	
EPA 200.7	**Nickel**	2.76	mg/L	0.0100	0.0048		X439009	SJN	09/23/24 12:14	
EPA 200.7	**Potassium**	6.63	mg/L	0.50	0.18		X439009	SJN	09/23/24 12:14	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X439009	SJN	09/23/24 12:14	
EPA 200.7	**Sodium**	40.6	mg/L	0.50	0.12		X439009	SJN	09/23/24 12:14	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X439009	SJN	09/23/24 12:14	
EPA 200.7	**Zinc**	70.8	mg/L	0.100	0.0540	10	X439009	SJN	09/23/24 12:43	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X438092	SMU	09/23/24 17:05	
EPA 200.8	**Arsenic**	0.0214	mg/L	0.00100	0.00021		X438092	SMU	09/23/24 20:26	
EPA 200.8	**Selenium**	0.0378	mg/L	0.00100	0.00024		X438092	SMU	09/23/24 20:26	
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.000400	5	X438092	SMU	09/23/24 20:28	D17
EPA 200.8	**Uranium**	3.64	mg/L	0.000500	0.000260	5	X438092	SMU	09/23/24 20:28	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X437234	MAC	09/23/24 16:57	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @20.0°C	< 0.0500	mg/L	0.0500	0.0480	10	X439153	DD	09/30/24 14:17	D15,Q12
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X439001	DD	09/24/24 10:31	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X438185	DD	09/23/24 11:24	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X438184	DD	09/20/24 12:20	
SM 2310 B	**Acidity to pH 8.3**	6720	mg/L as CaCO3	10.0			X438151	MWD	09/23/24 07:29	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X438102	MWD	09/18/24 11:47	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X438102	MWD	09/18/24 11:47	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X438102	MWD	09/18/24 11:47	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X438102	MWD	09/18/24 11:47	
SM 2540 C	**Total Diss. Solids**	13000	mg/L	100			X438076	TJL	09/19/24 13:50	
SM 2540 D	**Total Susp. Solids**	37.0	mg/L	5.0			X438078	TJL	09/20/24 14:00	
SM 4500 H B	**pH @20.5°C**	3.4	pH Units				X438102	MWD	09/18/24 11:47	H5

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0262**
Reported: 01-Oct-24 16:39

Client Sample ID: **GVMW-125E**
SVL Sample ID: **X4I0262-02 (Ground Water)**

Sampled: 16-Sep-24 12:38
Received: 17-Sep-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	24.4	mg/L	2.00	0.22	10	X438048	RS	09/17/24 17:37	
EPA 300.0	**Fluoride**	89.1	mg/L	25.0	4.25	250	X438048	RS	09/17/24 17:55	
EPA 300.0	**Nitrate as N**	3.63	mg/L	0.500	0.130	10	X438048	RS	09/17/24 17:37	D18
EPA 300.0	**Nitrate+Nitrite as N**	3.63	mg/L	1.00	0.440	10	X438048	RS	09/17/24 17:37	D18
EPA 300.0	Nitrite as N	< 0.500	mg/L	0.500	0.310	10	X438048	RS	09/17/24 17:37	
EPA 300.0	**Sulfate as SO4**	9750	mg/L	75.0	45.0	250	X438048	RS	09/17/24 17:55	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 191 meq/L Anion Sum: 209 meq/L C/A Balance: -4.45 % Calculated TDS: 10813 TDS/cTDS: 1.20

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X410262**
Reported: 01-Oct-24 16:39

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	X438196	25-Sep-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X438196	25-Sep-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X438196	25-Sep-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X439009	23-Sep-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X439009	23-Sep-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X439009	23-Sep-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X439009	23-Sep-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X439009	23-Sep-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X439009	23-Sep-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X439009	23-Sep-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X439009	23-Sep-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X439009	23-Sep-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X439009	23-Sep-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X439009	23-Sep-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X439009	23-Sep-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X439009	23-Sep-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X439009	23-Sep-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X439009	23-Sep-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X439009	23-Sep-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X439009	23-Sep-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X439009	23-Sep-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X439009	23-Sep-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X439009	23-Sep-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X439009	23-Sep-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X438092	23-Sep-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X438092	23-Sep-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X438092	23-Sep-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X438092	23-Sep-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X438092	23-Sep-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X437234	23-Sep-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X439153	30-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X439001	24-Sep-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X438185	23-Sep-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X438184	20-Sep-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X438151	23-Sep-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X438102	18-Sep-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X438102	18-Sep-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X438102	18-Sep-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X438102	18-Sep-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X438076	19-Sep-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X438078	20-Sep-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X438048	17-Sep-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X438048	17-Sep-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X438048	17-Sep-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X438048	17-Sep-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X438048	17-Sep-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X438048	17-Sep-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X410262**
Reported: 01-Oct-24 16:39

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	18.8	20.0	94	85 - 115	X438196	25-Sep-24	
EPA 200.7	Magnesium	mg/L	19.2	20.0	96.2	85 - 115	X438196	25-Sep-24	
EPA 200.7	Potassium	mg/L	19.0	20.0	94.9	85 - 115	X438196	25-Sep-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	1.00	1.00	100	85 - 115	X439009	23-Sep-24	
EPA 200.7	Barium	mg/L	0.985	1.00	98.5	85 - 115	X439009	23-Sep-24	
EPA 200.7	Beryllium	mg/L	1.04	1.00	104	85 - 115	X439009	23-Sep-24	
EPA 200.7	Boron	mg/L	0.984	1.00	98.4	85 - 115	X439009	23-Sep-24	
EPA 200.7	Cadmium	mg/L	0.978	1.00	97.8	85 - 115	X439009	23-Sep-24	
EPA 200.7	Calcium	mg/L	19.6	20.0	97.8	85 - 115	X439009	23-Sep-24	
EPA 200.7	Chromium	mg/L	0.997	1.00	99.7	85 - 115	X439009	23-Sep-24	
EPA 200.7	Cobalt	mg/L	0.961	1.00	96.1	85 - 115	X439009	23-Sep-24	
EPA 200.7	Copper	mg/L	1.00	1.00	100	85 - 115	X439009	23-Sep-24	
EPA 200.7	Iron	mg/L	9.95	10.0	99.5	85 - 115	X439009	23-Sep-24	
EPA 200.7	Lead	mg/L	0.972	1.00	97.2	85 - 115	X439009	23-Sep-24	
EPA 200.7	Lithium	mg/L	0.939	1.00	93.9	85 - 115	X439009	23-Sep-24	
EPA 200.7	Magnesium	mg/L	19.2	20.0	95.9	85 - 115	X439009	23-Sep-24	
EPA 200.7	Manganese	mg/L	0.992	1.00	99.2	85 - 115	X439009	23-Sep-24	
EPA 200.7	Molybdenum	mg/L	0.995	1.00	99.5	85 - 115	X439009	23-Sep-24	
EPA 200.7	Nickel	mg/L	0.971	1.00	97.1	85 - 115	X439009	23-Sep-24	
EPA 200.7	Potassium	mg/L	19.6	20.0	98.1	85 - 115	X439009	23-Sep-24	
EPA 200.7	Silver	mg/L	0.0524	0.0500	105	85 - 115	X439009	23-Sep-24	
EPA 200.7	Sodium	mg/L	19.1	19.0	101	85 - 115	X439009	23-Sep-24	
EPA 200.7	Vanadium	mg/L	1.01	1.00	101	85 - 115	X439009	23-Sep-24	
EPA 200.7	Zinc	mg/L	0.986	1.00	98.6	85 - 115	X439009	23-Sep-24	
EPA 200.8	Antimony	mg/L	0.0274	0.0250	110	85 - 115	X438092	23-Sep-24	
EPA 200.8	Arsenic	mg/L	0.0284	0.0250	114	85 - 115	X438092	23-Sep-24	
EPA 200.8	Selenium	mg/L	0.0265	0.0250	106	85 - 115	X438092	23-Sep-24	
EPA 200.8	Thallium	mg/L	0.0276	0.0250	110	85 - 115	X438092	23-Sep-24	
EPA 200.8	Uranium	mg/L	0.0252	0.0250	101	85 - 115	X438092	23-Sep-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00204	0.00200	102	85 - 115	X437234	23-Sep-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.101	0.100	101	90 - 110	X439153	30-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X439001	24-Sep-24	
EPA 350.1	Ammonia as N	mg/L	1.09	1.00	109	90 - 110	X438185	23-Sep-24	
OIA 1677	Cyanide (WAD)	mg/L	0.104	0.100	104	90 - 110	X438184	20-Sep-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	897	884	102	95.4 - 104	X438151	23-Sep-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.3	9.93	104	96.4 - 105	X438102	18-Sep-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	413	397	104	96.4 - 105	X438102	18-Sep-24	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X438078	20-Sep-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.03	3.00	101	90 - 110	X438048	17-Sep-24	
EPA 300.0	Fluoride	mg/L	2.03	2.00	102	90 - 110	X438048	17-Sep-24	
EPA 300.0	Nitrate as N	mg/L	2.03	2.00	102	90 - 110	X438048	17-Sep-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.60	4.50	102	90 - 110	X438048	17-Sep-24	
EPA 300.0	Nitrite as N	mg/L	2.57	2.50	103	90 - 110	X438048	17-Sep-24	
EPA 300.0	Sulfate as SO4	mg/L	10.3	10.0	103	90 - 110	X438048	17-Sep-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0262**
Reported: 01-Oct-24 16:39

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	149	149	0.0	20	X438151 - X4I0176-02	23-Sep-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0	<1.0	UDL	20	X438102 - X4I0262-02	18-Sep-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X438102 - X4I0262-02	18-Sep-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X438102 - X4I0262-02	18-Sep-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X438102 - X4I0262-02	18-Sep-24	
SM 2540 C	Total Diss. Solids	mg/L	227	228	0.4	10	X438076 - X4I0270-04	19-Sep-24	
SM 2540 C	Total Diss. Solids	mg/L	368	399	8.1	10	X438076 - X4I0264-01	19-Sep-24	
SM 2540 D	Total Susp. Solids	mg/L	23.0	29.0	23.1	10	X438078 - X4I0270-04	20-Sep-24	R2B
SM 2540 D	Total Susp. Solids	mg/L	7.0	7.0	0.0	10	X438078 - X4I0264-01	20-Sep-24	
SM 4500 H B	pH @20.7°C	pH Units	3.4	3.4	0.0	20	X438102 - X4I0262-02	18-Sep-24	

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	62.3	42.5	20.0	99	70 - 130	X438196 - X4I0221-01	25-Sep-24	
EPA 200.7	Calcium	mg/L	33.3	14.2	20.0	96	70 - 130	X438196 - X4I0230-06	25-Sep-24	
EPA 200.7	Magnesium	mg/L	27.0	6.79	20.0	101	70 - 130	X438196 - X4I0221-01	25-Sep-24	
EPA 200.7	Magnesium	mg/L	20.2	<0.500	20.0	98.9	70 - 130	X438196 - X4I0230-06	25-Sep-24	
EPA 200.7	Potassium	mg/L	20.5	1.21	20.0	96.4	70 - 130	X438196 - X4I0221-01	25-Sep-24	
EPA 200.7	Potassium	mg/L	19.9	<0.50	20.0	98.0	70 - 130	X438196 - X4I0230-06	25-Sep-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	<0.080	1.00	101	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Aluminum	mg/L	1.02	<0.080	1.00	102	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Barium	mg/L	1.18	0.196	1.00	98.5	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Barium	mg/L	1.09	0.101	1.00	98.9	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Beryllium	mg/L	1.02	<0.00200	1.00	102	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Beryllium	mg/L	1.02	<0.00200	1.00	102	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Boron	mg/L	1.01	<0.0400	1.00	98.8	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Boron	mg/L	0.996	<0.0400	1.00	98.7	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Cadmium	mg/L	0.987	<0.0020	1.00	98.7	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Cadmium	mg/L	0.983	<0.0020	1.00	98.3	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Calcium	mg/L	48.3	29.4	20.0	94.9	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Calcium	mg/L	29.9	10.4	20.0	97.5	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Chromium	mg/L	0.984	<0.0060	1.00	98.4	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Chromium	mg/L	0.993	<0.0060	1.00	99.3	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Cobalt	mg/L	0.966	<0.0060	1.00	96.6	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Cobalt	mg/L	0.956	<0.0060	1.00	95.6	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Copper	mg/L	0.974	<0.0100	1.00	97.4	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Copper	mg/L	0.976	<0.0100	1.00	97.6	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Iron	mg/L	9.73	<0.100	10.0	97.3	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Iron	mg/L	10.0	<0.100	10.0	100	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Lead	mg/L	0.983	<0.0075	1.00	98.3	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Lead	mg/L	0.975	<0.0075	1.00	97.5	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Lithium	mg/L	0.981	<0.040	1.00	98.1	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Lithium	mg/L	0.934	<0.040	1.00	93.4	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Magnesium	mg/L	26.2	6.70	20.0	97.3	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Magnesium	mg/L	21.7	2.10	20.0	98.1	70 - 130	X439009 - X4I0153-02	23-Sep-24	

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Newmont - Cripple Creek & Victor
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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0262**
Reported: 01-Oct-24 16:39

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	0.987	<0.0080	1.00	98.0	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Manganese	mg/L	0.987	<0.0080	1.00	98.7	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Molybdenum	mg/L	1.01	<0.0080	1.00	100	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Molybdenum	mg/L	0.987	<0.0080	1.00	98.7	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Nickel	mg/L	0.966	<0.0100	1.00	96.6	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Nickel	mg/L	0.957	<0.0100	1.00	95.7	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Potassium	mg/L	20.1	0.95	20.0	95.6	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Potassium	mg/L	20.5	0.78	20.0	98.6	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Silver	mg/L	0.0539	<0.0050	0.0500	108	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Silver	mg/L	0.0533	<0.0050	0.0500	107	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Sodium	mg/L	49.6	31.6	19.0	95.1	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Sodium	mg/L	28.9	10.1	19.0	98.8	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Vanadium	mg/L	1.00	<0.0050	1.00	100	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Vanadium	mg/L	1.00	<0.0050	1.00	100	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.7	Zinc	mg/L	1.01	<0.0100	1.00	101	70 - 130	X439009 - X4I0153-01	23-Sep-24	
EPA 200.7	Zinc	mg/L	1.00	<0.0100	1.00	100	70 - 130	X439009 - X4I0153-02	23-Sep-24	
EPA 200.8	Antimony	mg/L	0.0286	<0.00100	0.0250	114	70 - 130	X438092 - X4I0187-01	23-Sep-24	
EPA 200.8	Antimony	mg/L	0.0278	<0.00100	0.0250	111	70 - 130	X438092 - X4I0221-02	23-Sep-24	
EPA 200.8	Arsenic	mg/L	0.0270	<0.00100	0.0250	105	70 - 130	X438092 - X4I0187-01	23-Sep-24	
EPA 200.8	Arsenic	mg/L	0.0282	<0.00100	0.0250	113	70 - 130	X438092 - X4I0221-02	23-Sep-24	
EPA 200.8	Selenium	mg/L	0.0247	<0.00100	0.0250	98.8	70 - 130	X438092 - X4I0187-01	23-Sep-24	
EPA 200.8	Selenium	mg/L	0.0261	<0.00100	0.0250	105	70 - 130	X438092 - X4I0221-02	23-Sep-24	
EPA 200.8	Thallium	mg/L	0.0275	<0.000200	0.0250	110	70 - 130	X438092 - X4I0187-01	23-Sep-24	
EPA 200.8	Thallium	mg/L	0.0267	<0.000200	0.0250	107	70 - 130	X438092 - X4I0221-02	23-Sep-24	
EPA 200.8	Uranium	mg/L	0.0337	0.00424	0.0250	118	70 - 130	X438092 - X4I0187-01	23-Sep-24	
EPA 200.8	Uranium	mg/L	0.0336	0.00483	0.0250	115	70 - 130	X438092 - X4I0221-02	23-Sep-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00206	<0.000200	0.00200	103	70 - 130	X437234 - X4I0176-01	23-Sep-24	
EPA 245.1	Mercury	mg/L	0.00203	<0.000200	0.00200	102	70 - 130	X437234 - X4I0196-02	23-Sep-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0980	<0.0050	0.100	98.0	79 - 121	X439153 - X4I0262-01	30-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.104	<0.0050	0.100	104	90 - 110	X439001 - X4I0262-01	24-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.588	0.454	0.100	0.30R>S	90 - 110	X439001 - X4I0211-01	24-Sep-24	M4
EPA 350.1	Ammonia as N	mg/L	1.79	0.742	1.00	105	90 - 110	X438185 - X4I0266-09	23-Sep-24	
EPA 350.1	Ammonia as N	mg/L	1.74	0.653	1.00	109	90 - 110	X438185 - X4I0266-10	23-Sep-24	
OIA 1677	Cyanide (WAD)	mg/L	0.101	<0.0050	0.100	99.0	82 - 118	X438184 - X4I0262-01	20-Sep-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	5.66	2.46	3.00	106	90 - 110	X438048 - X4I0242-02	17-Sep-24	
EPA 300.0	Chloride	mg/L	3.22	<0.20	3.00	101	90 - 110	X438048 - X4I0262-01	17-Sep-24	
EPA 300.0	Fluoride	mg/L	2.13	<0.100	2.00	104	90 - 110	X438048 - X4I0242-02	17-Sep-24	
EPA 300.0	Fluoride	mg/L	2.12	<0.100	2.00	102	90 - 110	X438048 - X4I0262-01	17-Sep-24	
EPA 300.0	Nitrate as N	mg/L	2.03	<0.050	2.00	102	90 - 110	X438048 - X4I0242-02	17-Sep-24	
EPA 300.0	Nitrate as N	mg/L	2.06	<0.050	2.00	102	90 - 110	X438048 - X4I0262-01	17-Sep-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.07	<0.100	4.00	102	90 - 110	X438048 - X4I0242-02	17-Sep-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.15	<0.100	4.00	104	90 - 110	X438048 - X4I0262-01	17-Sep-24	
EPA 300.0	Nitrite as N	mg/L	2.04	<0.050	2.00	102	90 - 110	X438048 - X4I0242-02	17-Sep-24	
EPA 300.0	Nitrite as N	mg/L	2.09	<0.050	2.00	104	90 - 110	X438048 - X4I0262-01	17-Sep-24	
EPA 300.0	Sulfate as SO4	mg/L	22.6	12.2	10.0	104	90 - 110	X438048 - X4I0242-02	17-Sep-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0262**
Reported: 01-Oct-24 16:39

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	10.9	0.55	10.0	103	90 - 110	X438048 - X4I0262-01	17-Sep-24	

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	60.9	62.3	20.0	2.0	20	92	X438196 - X4I0221-01	
EPA 200.7	Magnesium	mg/L	26.1	27.0	20.0	3.4	20	96.7	X438196 - X4I0221-01	
EPA 200.7	Potassium	mg/L	19.9	20.5	20.0	2.8	20	93.6	X438196 - X4I0221-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	1.01	1.00	0.5	20	101	X439009 - X4I0153-01	
EPA 200.7	Barium	mg/L	1.17	1.18	1.00	0.6	20	97.8	X439009 - X4I0153-01	
EPA 200.7	Beryllium	mg/L	1.02	1.02	1.00	0.4	20	102	X439009 - X4I0153-01	
EPA 200.7	Boron	mg/L	1.01	1.01	1.00	0.3	20	99.0	X439009 - X4I0153-01	
EPA 200.7	Cadmium	mg/L	0.975	0.987	1.00	1.2	20	97.5	X439009 - X4I0153-01	
EPA 200.7	Calcium	mg/L	48.7	48.3	20.0	0.7	20	96.6	X439009 - X4I0153-01	
EPA 200.7	Chromium	mg/L	0.986	0.984	1.00	0.2	20	98.6	X439009 - X4I0153-01	
EPA 200.7	Cobalt	mg/L	0.953	0.966	1.00	1.4	20	95.3	X439009 - X4I0153-01	
EPA 200.7	Copper	mg/L	0.974	0.974	1.00	0.0	20	97.4	X439009 - X4I0153-01	
EPA 200.7	Iron	mg/L	9.97	9.73	10.0	2.4	20	99.7	X439009 - X4I0153-01	
EPA 200.7	Lead	mg/L	0.974	0.983	1.00	0.9	20	97.4	X439009 - X4I0153-01	
EPA 200.7	Lithium	mg/L	0.977	0.981	1.00	0.3	20	97.7	X439009 - X4I0153-01	
EPA 200.7	Magnesium	mg/L	26.7	26.2	20.0	1.9	20	99.8	X439009 - X4I0153-01	
EPA 200.7	Manganese	mg/L	0.986	0.987	1.00	0.1	20	98.0	X439009 - X4I0153-01	
EPA 200.7	Molybdenum	mg/L	0.999	1.01	1.00	0.6	20	99.5	X439009 - X4I0153-01	
EPA 200.7	Nickel	mg/L	0.953	0.966	1.00	1.4	20	95.3	X439009 - X4I0153-01	
EPA 200.7	Potassium	mg/L	20.7	20.1	20.0	2.9	20	98.5	X439009 - X4I0153-01	
EPA 200.7	Silver	mg/L	0.0530	0.0539	0.0500	1.6	20	106	X439009 - X4I0153-01	
EPA 200.7	Sodium	mg/L	49.9	49.6	19.0	0.6	20	96.7	X439009 - X4I0153-01	
EPA 200.7	Vanadium	mg/L	1.00	1.00	1.00	0.4	20	100	X439009 - X4I0153-01	
EPA 200.7	Zinc	mg/L	1.00	1.01	1.00	1.0	20	100	X439009 - X4I0153-01	
EPA 200.8	Antimony	mg/L	0.0289	0.0286	0.0250	1.3	20	116	X438092 - X4I0187-01	
EPA 200.8	Arsenic	mg/L	0.0278	0.0270	0.0250	3.0	20	108	X438092 - X4I0187-01	
EPA 200.8	Selenium	mg/L	0.0254	0.0247	0.0250	2.9	20	102	X438092 - X4I0187-01	
EPA 200.8	Thallium	mg/L	0.0277	0.0275	0.0250	0.6	20	111	X438092 - X4I0187-01	
EPA 200.8	Uranium	mg/L	0.0336	0.0337	0.0250	0.2	20	117	X438092 - X4I0187-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00213	0.00206	0.00200	3.3	20	106	X437234 - X4I0176-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.102	0.0980	0.100	4.0	11	102	X439153 - X4I0262-01	
EPA 335.4	Cyanide (total)	mg/L	0.585	0.588	0.100	0.6	20	0.30R>S	X439001 - X4I0211-01	M4
EPA 350.1	Ammonia as N	mg/L	1.80	1.79	1.00	0.4	20	106	X438185 - X4I0266-09	
OIA 1677	Cyanide (WAD)	mg/L	0.108	0.101	0.100	6.7	11	106	X438184 - X4I0262-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	5.67	5.66	3.00	0.2	20	107	X438048 - X4I0242-02	
EPA 300.0	Fluoride	mg/L	2.14	2.13	2.00	0.1	20	104	X438048 - X4I0242-02	
EPA 300.0	Nitrate as N	mg/L	2.04	2.03	2.00	0.2	20	102	X438048 - X4I0242-02	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.08	4.07	4.00	0.2	20	102	X438048 - X4I0242-02	
EPA 300.0	Nitrite as N	mg/L	2.05	2.04	2.00	0.3	20	102	X438048 - X4I0242-02	

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

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Post Office Box 191
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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4I0262**
Reported: 01-Oct-24 16:39

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	22.7	22.6	10.0	0.1	20	105	X438048 - X4I0242-02	

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X410262**
Victor, CO 80860	Reported: 01-Oct-24 16:39

Notes and Definitions

D15	Due to sample viscosity, a sample dilution was performed.
D17	Due to an internal standard failure at a lower dilution, a sample dilution was performed.
D18	Due to a published chemical interference, a sample dilution was performed.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
Q12	Sample was received and analyzed with pH <12.
Q5C	After two pH adjustments, the method-specified pH was not achieved.
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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Attachment 2

Field Sheets

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Grassy Valley
Date: 8/21/24
Technician: Trenton Reed
Quarter: 3
Static Water Level (DTW): 26.3
Well ID: CRMW-3A
Is well Dry? No
If so Dry at: —
Well Depth (TD): 35 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
12:26			6.56	3570	8.9	4233	112.2	
12:31	26.35	0.05	6.61	3553	8.2	41.75	108.9	
12:36	26.40	0.05	6.62	3552	8.1	42.13	118.5	0.8 L/m
12:41	26.40	0.00	6.62	3552	8.1	41.96	123.1	
12:46	26.40	0.00	6.62	3549	8.0	38.91	128.3	
12:51	26.46	0.06	6.63	3553	8.1	38.32	131.6	
total								
Drawdown								
0.10								

Sample Method: Low Flow
Rate (gpm): 0.2 * Flow rate at stabilization (during sample collection)
Time Start: 12:26 Time End: 12:51

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/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)
* See Field Volume Guide
If yes, required pump vol (gal): — following stabilization
Actual vol. pumped (gal) ~5 gal

O/G visible: Y / (N)
Equipment Decontaminated: (Y) / N
Turbid? Y / (N)
Decontamination procedure used: triple rinse liquid knox

Weather: 72° Overcast
Signature:

Volume Calculations:	
For 2" Diameter Well (gal): $V(gal) = 0.1632 * h(ft)$	For 4" Diameter Well (gal): $V(gal) = 0.6528 * h(ft)$
Other Diameter Well & Tubing Vol (gal): $V(gal) = 0.1632 * (r(in))^2 * h(ft)$	
Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$	
Well Volume Purge Method: *Three Well Volumes = 3*V*	
Conversions: $1ft^3 = 7.48\ gal$ $1gal = 3.785\ L$	Show Calculations: Use 5 gal Bucket

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

Location: CRMW-3B **Date:** 8/21/24

Technician: T. Reed **Quarter:** 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	Chlorine
12102		DRY			

Sample Method:

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

Turbid ~~[Y/N]~~

Clear ~~[Y/N]~~

Weather: 72° Sunny

Signature:

Comments / Notes:

DRY

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

Location: CRMW-3C **Date:** 8/21/24

Technician: Trenton Reed **Quarter:** 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	Chlorine
11:14	6.83	1909	21.0	106	—

Sample Method: Grab

Oil/Gas visible [Y / (N)]

Turbid [Y / (N)]

Clear [(Y) / N]

Weather: 74° Partly Cloudy

Signature:

Comments / Notes:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Arequa Gulch
Technician: Trenton Reed
Static Water Level (DTW): 203.3
Is well Dry? No
If so Dry at: —

Date: 7/17/24
Quarter: 3
Well ID: CRMW-5A
Well Depth (TD): 205 feet

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

Insufficient
No Sample

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

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~~
* 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: Used Sonder

Weather: 64° 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: Arequa Gulch
Technician: Trenton Reed
Static Water Level (DTW): 24.4
Is well Dry? NO
If so Dry at: —

Date: 7/17/24
Quarter: ~~CRITICAL LOSS~~ 3
Well ID: CRMW-105G
Well Depth (TD): 60 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
11:18	24.45		6.73	203.7	8.3	7.52	99.6	

Sample Method: Low Flow
Rate (gpm): 0.05 * Flow rate at stabilization (during sample collection)
Time Start: 10:48 Time End: 11:18

Final Parameters	Stabilization Guidance		Met?	Comments
pH	6.73	±0.1	(Y) / N	
Conductivity	203.7	3%	(Y) / N	
Temp (deg C)	8.3	3%	(Y) / N	
Dissolved Oxygen	7.52	10%	(Y) / N	
Turbidity	—	10%	~~Y~~ / ~~N~~	
Oxidation/Reduction	99.6	±10	(Y) / N	
DTW Stabilized	24.45	feet	(Y) / N	
Final H2O level	24.45	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 gal

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

Weather: 64° 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:
Use 5 gal Bucket

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Arequa Gultch
Date: 7/17/24
Technician: Trenton Kead
Quarter: 3
Static Water Level (DTW): 24.15
Well ID: CRMW-5B
Well Depth (TD): 60 **feet**
Is well Dry? NO
If so Dry at: —

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
10:00			7.23	367.4	10.1	6.89	127.8	
10:05	24.25	0.10	7.33	339.6	8.6	7.09	118.1	
10:10	24.27	0.02	7.36	331.0	7.8	6.53	113.4	
10:15	24.27	0.00	7.41	361.0	7.4	5.97	101.1	.2 L/m
10:20	24.30	0.03	7.44	390.9	6.8	5.00	78.5	
10:25	24.30	0.03	7.45	390.8	6.5	5.01	72.4	
10:30	24.30	0.00	7.45	385.4	6.5	4.79	64.7	
10:35	24.30	0.00	7.46	382.3	6.5	4.77	63.0	
~~10:40~~								
total Draw Down 0.18								

Sample Method: Low Flow **Rate (gpm):** 0.05 **Time Start:** 10:00 **Time End:** 10:35
** Flow rate at stabilization (during sample collection)*

Final Parameters	Stabilization Guidance		Met?	Comments
pH	7.46	±0.1	(Y) / N	
Conductivity	382.3	3%	(Y) / N	
Temp (deg C)	6.5	3%	(Y) / N	
Dissolved Oxygen	4.77	10%	(Y) / N	
Turbidity	—	10%	~~Y / N~~	
Oxidation/Reduction	63.0	±10	(Y) / N	
DTW Stabilized	24.30	feet	(Y) / N	
Final H2O level	24.30	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) 7.5
** See Field Volume Guide*

O/G visible: Y / (N)
Turbid? Y / (N)
Equipment Decontaminated: (Y) / N
Decontamination procedure used: ~~[illegible]~~ Dedicated pump
Weather: Sunny 64°
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:
Use 5 gal Bucket

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Arequa Gulch
Date: 7/17/24
Technician: Trenton Reed
Quarter: 3
Static Water Level (DTW): 24.4
Well ID: CRMW-5C
Is well Dry? NO
If so Dry at: —
Well Depth (TD): 60 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
10:48			6.74	202.8	8.7	9.2	87.7	
10:53	24.45	0.0	6.73	202.6	7.7	8.39	91.7	
10:58	24.45	0.0	6.73	203.1	7.9	9.01	94.4	0.1
11:03	24.45	0.0	6.75	203.6	7.8	8.01	96.6	
11:08	24.45	0.0	6.73	203.1	8.3	7.85	97.1	
11:13	24.45	0.0	6.73	203.7	8.3	7.67	98.6	
11:18	24.45	0.0	6.73	203.7	8.3	7.52	99.6	
	Total Drawdown 0.05							

Sample Method: Low Flow
Rate (gpm): 0.05 * Flow rate at stabilization (during sample collection)
Time Start: 10:48 Time End: 11:18

Final Parameters	Stabilization Guidance		Met?	Comments
pH	6.73	±0.1	Y / N	
Conductivity	203.7	3%	Y / N	
Temp (deg C)	8.3	3%	Y / N	
Dissolved Oxygen	7.52	10%	Y / N	
Turbidity	—	10%	~~Y / N~~	
Oxidation/Reduction	99.6	±10	Y / N	
DTW Stabilized	24.45	feet	Y / N	
Final H2O level	24.45	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 gal

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

Weather: 64° 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:
Use 5 gal Bucket

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Arequa Gultch
Date: 7/17/24
Technician: Trenton Reed
Quarter: 3
Static Water Level (DTW): 13.8
Well ID: CRMW-5D
Well Depth (TD): 27 feet
Is well Dry? No
If so Dry at: —

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
9:15			6.57	148.6	8.4	8.38	92.1	
9:20	13.95	0.15	6.55	145.6	8.4	7.92	96.8	
9:25	13.95	0.00	6.54	145.1	8.9	7.37	98.8	.1 L/m
9:30	13.95	0.00	6.52	146.4	9.0	6.86	102.7	
9:35	13.95	0.00	6.51	147.8	9.2	6.69	105.1	
9:40	13.95	0.00	6.51	148.4	9.2	6.42	106.3	
9:45								
total DrawDown 0.15								

Sample Method: Low Flow
Rate (gpm): 0.05
** Flow rate at stabilization (during sample collection)*
Time Start: 9:15
Time End: 9:40

Final Parameters	Stabilization Guidance		Met?	Comments
pH	6.51	±0.1	(Y) / N	
Conductivity	148.4	3%	(Y) / N	
Temp (deg C)	9.2	3%	(Y) / N	
Dissolved Oxygen	6.42	10%	(Y) / N	
Turbidity	—	10%	~~Y / N~~	
Oxidation/Reduction	106.3	±10	(Y) / N	
DTW Stabilized	13.95	feet	(Y) / N	
Final H2O level	13.95	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 gal

O/G visible: Y / (N)
Turbid? Y / (N)
Equipment Decontaminated: (Y) / N
Decontamination procedure used: ~~triple Rinse (liquid) knox~~ Dedicated pump
Weather: 62° Sunny
Signature: [signature]

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

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

Show Calculations: Use 5 gal Bucket

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Arequa Gulch
Date: 9/25/24
Technician: J. Crawford
Quarter: 3
Static Water Level (DTW):
Well ID: ESPMW-1
Well Depth (TD): 220
Is well Dry?
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
		Unable to Sample						

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 MetDrawdown 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: na

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:
Not able to Pump due to Power issues

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Poverty Gulch — **Date:** 7/3/24
Technician: Trenton Read — **Quarter:** 3
Static Water Level (DTW): — **Well ID:** PVMW-2
Well Depth (TD): 218 feet
Is well Dry? Yes — **If so Dry at:** 218

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 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): — 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: Sunny Clear
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: Poverty Gulch **Date:** 9/17/24 - 9/18/24
Technician: T. Reed **Quarter:** 3
Static Water Level (DTW): 42.07 **Well ID:** PGMW-3
Well Depth (TD): ~~95~~ 56.45 feet
Is well Dry? NO **If so Dry at:** —

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
10:22			4.34	1098	3.8		297.1	
10:28	51.50	stopped pumping						
9:22	47.70		4.12	1270	7.8		290.0	

Sample Method: Purge & Return **Rate (gpm):** — **Time Start:** 10:22 **Time End:** 9:22
* Flow rate at stabilization (during sample collection)

Final Parameters	Stabilization Guidance		Met?	Comments
pH	4.12	±0.1	Y / N	
Conductivity	1270	3%	Y / N	
Temp (deg C)	7.8	3%	Y / N	
Dissolved Oxygen		10%	Y / N	
Turbidity	~~—~~	~~10%~~	~~Y / N~~	
Oxidation/Reduction	290.0	±10	Y / N	
DTW Stabilized	N/A	feet	Y / N	
Final H2O level	N/A	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: triple Rinse liquid Knox

Weather: 56° 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:
Purge & Return

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Poverty Gulch Trenton Road
Date: 7/3/24
Technician:
Quarter: 3
Static Water Level (DTW): 39 —
Well ID: PVMW-4
Is well Dry? Yes
If so Dry at: 39.3 feet
Well Depth (TD): 39.3

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): —
** Flow rate at stabilization (during sample collection)*
Time Start: —
Time End: —

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
** 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:

Weather: Sunny Clear
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: Poverty Gulch
Date: 9/17/24
Technician: T. Reed
Quarter: 3
Static Water Level (DTW): 28.55
Well ID: ~~SP~~ PGMW-5
Well Depth (TD): 51 feet
Is well Dry? _____ **If so Dry at:** _____

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
9:00			3.81	1355	3.9	162.03	273.6	
9:05	29.20	0.65	3.80	1315	4.2	169.76	276.5	
9:10	29.51	0.31	3.81	1306	3.9	156.56	287.8	0.41 L/m
9:15	29.51	0.00	3.81	1304	3.8	142.22	304.7	
9:20	29.51	0.00	3.81	1301	3.9	126.09	317.5	
9:25	29.51	0.00	3.80	1301	3.8	122.67	335.2	
9:30	29.51	0.00	3.80	1300	3.9	128.67	342.8	
9:35	29.51	0.00	3.81	1299	3.9	127.79	350.2	
9:40	29.51	0.00	3.80	1299	3.9	118.62	352.2	

Sample Method: Low-Flow **Rate (gpm):** 0.11 **Time Start:** 9:00 **Time End:** 9:40
** Flow rate at stabilization (during sample collection)*

Final Parameters	Stabilization Guidance		Met?	Comments
pH	3.80	±0.1	(Y) / N	
Conductivity	1299	3%	(Y) / N	
Temp (deg C)	3.9	3%	(Y) / N	
Dissolved Oxygen	118.62	10%	(Y) / N	
~~Turbidity~~	~~—~~	~~10%~~	~~Y / N~~	
Oxidation/Reduction	352.2	±10	(Y) / N	
DTW Stabilized	29.51	feet	(Y) / N	
Final H2O level	29.51	feet		

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

O/G visible: Y / (N) Turbid? Y / (N)
Equipment Decontaminated: (Y) / N
Decontamination procedure used: Tripple rinse; Liquid-Knox

Weather: 53°F, Overcast
Signature: [signature]

Volume Calculations:	
For 2" Diameter Well (gal): $V(gal) = 0.1632 * h(ft)$	**For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$
Other Diameter Well & Tubing Vol (gal): $V(gal) = 0.1632 * (r(in))^2 * h(ft)$	
Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$	
Well Volume Purge Method: *Three Well Volumes = 3*V*	
Conversions: $1ft^3 = 7.48\ gal$ $1gal = 3.785\ L$	**Show Calculations:** use 5 gal bucket

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Maize Gultch
Technician: Trenton Reed
Static Water Level (DTW): —
Date: 7/3/24
Quarter: 3
Well ID: SGMW-5
Well Depth (TD): 256 feet

Is well Dry? Yes **If so Dry at:** 256

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 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
** See Field Volume Guide*
If yes, required pump vol (gal): — following stabilization
Actual vol. pumped (gal) —

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

Decontamination procedure used:

Weather: Sunny Clear
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 : Maize Gulch
Technician: Trenton Reed
Static Water Level (DTW): —
Date: 7/3/24
Quarter: 3
Well ID: SGMW-6A
Well Depth (TD): 400 feet
Is well Dry? Yes
If so Dry at: 400

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

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

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
** 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:

Weather: Sunny Clear
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: Maize Gultch **Date:** 7/17/24
Technician: Triston Reed **Quarter:** 3
Static Water Level (DTW): 22.5 **Well ID:** 56MW-63
Well Depth (TD): 60
Is well Dry? — **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
12:13			5.51	2790	9.8	4.02	117.2	
12:18	23.40	0.9	5.84	2737	10.4	3.36	105.7	
12:23	23.45	0.05	5.81	2759	10.9	3.07	96.4	.21 L/m
12:28	23.60	0.15	5.78	2771	11.0	3.11	87.8	
12:33	23.65	0.05	5.85	2753	11.4	3.22	82.5	
12:38	23.70	0.05	5.83	2740	11.4	3.15	78.7	
12:43	23.75	0.05	5.83	2746	11.4	3.21	75.2	
	Total							
	Draw Down							
	1.25							

Sample Method: Low Flow **Rate (gpm):** 0.05 **Time Start:** 1213 **Time End:** 12:43
** Flow rate at stabilization (during sample collection)*

Final Parameters	Stabilization Guidance		Met?	Comments
pH	5.83	±0.1	Y / N	
Conductivity	2746	3%	Y / N	
Temp (deg C)	11.4	3%	Y / N	
Dissolved Oxygen	3.21	10%	Y / N	
Turbidity	—	10%	~~Y / N~~	—
Oxidation/Reduction	75.2	±10	Y / N	
DTW Stabilized	23.75	feet	Y / N	
Final H2O level	23.75	feet		

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

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

Weather: 60° Partly Cloudy
Signature:

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

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

Show Calculations:
~~60-22.5=37.5 x 0.6528 = 24.48gal x 3 = 73.44~~
1.0 + 0.34 = 1.34 Use 5 gal Bucket

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Maice Gulch
Technician: Trenton Reed
Static Water Level (DTW): 404.8
Date: 7/3/24
Quarter: 3
Well ID: SGMW-7A
Well Depth (TD): 406 feet
Is well Dry? Yes
If so Dry at: 404.8

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

IDPX

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

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) —

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

Decontamination procedure used:

Weather: Sunny clear
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 : Maize Gultch
Date: 7/3/24
Technician: Trenton Reed
Quarter: 3
Static Water Level (DTW): 58.5
Well ID: SGMW-[redacted]7B
Is well Dry? Yes
If so Dry at: 58.3 **feet**
Well Depth (TD): 60

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

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
** 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:

Weather: Sunny Clear
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: Maize Gultch
Technician: T. Reed
Static Water Level (DTW): 212.50
Date: 9/3/24 -- 9/4/24
Quarter: 3
Well ID: SGMW-8
Well Depth (TD): 219 feet
Is well Dry? NO
If so Dry at: —

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
12:30	212.50		7.15	1861	13.7		-55	
12:40	218.03	Stopped	pumping.					
9/4/24								
10:17	217.67	Insufficient to pump						

Sample Method: Purget Return
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 Stablized		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)
Equipment Decontaminated: (Y) / N
Turbid? Y / (N)
Decontamination procedure used: Triple Rinse liquid Knox

Weather: 67° 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:
Purget Return Insufficient to Pump

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Vindicator Valley
Technician: Trenton Reed
Static Water Level (DTW): 253.35
Is well Dry? NO
If so Dry at: —

Date: 8/8/24
Quarter: 3
Well ID: Vin-2A
Well Depth (TD): 270 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
11:00	253.45	0.10	7.19	1225	10.5	—	244	
11:05	253.52	0.07	6.97	1240	8.9	—	245	
11:10	253.54	0.02	7.00	1262	9.0	—	238	
11:15	254.00	0.46	7.16	1290	8.9	—	[redacted]12	0.1 L/M
11:20	254.12	0.12	7.29	1298	8.9	—	[redacted]	
11:25	254.20	0.18	7.35	1292	8.9		7	
11:30	254.25	0.05	7.48	1291	8.9	—	10	
11:35	254.30	0.05	7.47	1292	8.8	—	15	
		total Drawdown 1.05						

Sample Method: Low Flow
Rate (gpm): 0.04 * Flow rate at stabilization (during sample collection)
Time Start: 11:00 Time End: 11:35

Final Parameter	Stabilization Guidance		Met?	Comments
pH	7.47	±0.1	(Y) / N	
Conductivity	1292	3%	(Y) / N	
Temp (deg C)	8.8	3%	(Y) / N	
Dissolved Oxygen	~~—~~	~~10%~~	~~Y / N~~	
Turbidity	~~—~~	~~10%~~	~~Y / N~~	
Oxidation/Reduction	15	±10	(Y) / N	
DTW Stabilized	254.30	feet	Y / N	
Final H2O level	254.30	feet		

If Low Flow Met Drawdown greater than 0.33 ft? (Y) / N
* See Field Volume Guide
If yes, required pump vol (gal): 1.65 following stabilization
Actual vol. pumped (gal) 1.65 gal

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

Weather: Overcast 59°
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:** 0.1 + 1.55 = 1.65 Use 5 gal Bucket

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Vindicator Valley
Date: 9/25/24
Technician: ~~T. Reed~~ S. Crawford
Quarter: 3
Static Water Level (DTW):
Well ID: Vin-2B
Is well Dry?
If so Dry at:
Well Depth (TD): 140 feet

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

Not able to enable to sample

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

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

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

O/G visible: Y / N
Turbid? ~~Y / N~~
Equipment Decontaminated: Y / ~~N~~
Decontamination procedure used: N/a

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:** not able to sample due to Power issues

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Grassy Valley **Date:** 8/8/24

Technician: Trenton Reed **Quarter:** 3

Static Water Level (DTW): 61.30 **Well ID:** WCMW-3

Is well Dry? NO **If so Dry at:** — **Well Depth (TD):** 134 **feet**

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
9:10			7.39	464.3	6.8	31.37	61.8	
9:15	61.90	0.6	7.69	328.8	5.9	28.49	-8.5	
9:20	61.92	0.02	7.72	319.3	5.8	17.60	-22.4	
9:25	61.92	0.00	7.71	319.2	5.9	17.10	-28.4	0.2 L/m
9:30	61.92	0.00	7.72	318.7	5.9	17.30	-32.4	
9:35	61.92	0.00	7.72	319.2	5.9	17.50	-32.4	
9:40	61.92	0.00	7.71	319.3	5.9	17.11	-32.7	
	total							
	Drawdown							
	0.62							

Sample Method: Low Flow **Rate (gpm):** 0.07 **Time Start:** 9:10 **Time End:** 9:40

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

Final Parameter	Stabilization Guidance		Met?	Comments
pH	7.71	±0.1	Y / N	
Conductivity	319.3	3%	Y / N	
Temp (deg C)	5.9	3%	Y / N	
Dissolved Oxygen	17.11	10%	Y / N	
Turbidity		10%	Y / N	
Oxidation/Reduction	-32.7	±10	Y / N	
DTW Stabilized	61.92	feet	Y / N	
Final H2O level	61.92	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: 0.87 Actual vol. pumped (gal) ~2.5

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

Equipment Decontaminated: (Y) / N

Decontamination procedure used: triple Rinse liquid Knox

Weather: Overcast 56°

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:

0.1 + 0.77 = 0.87 gal

Use 5gal Bucket

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Wilson Creek
Date: 7/18 '24
Technician: Trenton Deed
Quarter: 3
Static Water Level (DTW): 5.95
Well ID: WCMW-6
PTW after pump = 3.40
Well Depth (TD): 234
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
1:07	8.20	2.25	6.88	372.30	9.84	0.22	41.1	
1:12	7.93	0.27	6.92	371.50	9.82	0.14	22.3	
1:17	7.45	0.48	6.94	371.11	10.55	0.14	12.8	
1:22	7.20	0.25	6.96	370.21	10.54	0.12	0.0	
1:27	7.15	0.05	6.99	368.56	10.65	0.09	~~24.7~~	
1:32	7.10	0.05	7.04	366.67	10.80	0.08	-18.6	
1:38	7.00	0.10	7.09	366.30	11.50	0.08	-26.9	
	total							
	Drawdown							
	3.45							

Sample Method: Low Flow
Rate (gpm): 0.0 * Flow rate at stabilization (during sample collection)
Time Start: 1:07 Time End: 1:38

Final Parameters	Stabilization Guidance		Met?	Comments
pH	7.09	±0.1	(Y) / N	
Conductivity	366.30	3%	(Y) / N	
Temp (deg C)	11.50	3%	Y / (N)	
Dissolved Oxyger	0.08	10%	(Y) / N	
Turbidity	—	~~10%~~	Y / N	
Oxidation/Reduction	-26.9	±10	Y / (N)	
DTW Stabilized	7.00	feet	(Y) / N	
Final H2O level	7.00	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: 1.94
Actual vol. pumped (gal): 8 gal

O/G visible: Y / (N)
Turbid? Y / (N)
Equipment Decontaminated: (Y) / N
Decontamination procedure used: triple Rinse Liquid Knox

Weather: Cloudy 630
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:
0.6 + 1.34 = 1.94
hZ = 13

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

Location: CRMW-103H

Date: 8/21/24

Technician: Trenton Reed

Quarter: 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	Chlorine
11:14	6.83	1909	21.0	106	—

Sample Method: Grab

Oil/Gas visible [Y / (N)]

Turbid [Y / (N)]

Clear [(Y) / N]

Weather: 74° Partly Cloudy

Signature:

Comments / Notes:

DUP CRMW-3C

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Arequa Gulch
Technician: Trenton Reed
Static Water Level (DTW): 24.4
Is well Dry? NO
If so Dry at: —

Date: 7/17/24
Quarter: ~~CRITICAL LOSS~~ 3
Well ID: CRMW-105G
Well Depth (TD): 60 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
11:18	24.45		6.73	203.7	8.3	7.52	99.6	

Sample Method: Low Flow
Rate (gpm): 0.05 * Flow rate at stabilization (during sample collection)
Time Start: 10:48 Time End: 11:18

Final Parameters	Stabilization Guidance		Met?	Comments
pH	6.73	±0.1	(Y) / N	
Conductivity	203.7	3%	(Y) / N	
Temp (deg C)	8.3	3%	(Y) / N	
Dissolved Oxygen	7.52	10%	(Y) / N	
Turbidity	—	10%	~~Y~~ / ~~N~~	
Oxidation/Reduction	99.6	±10	(Y) / N	
DTW Stabilized	24.45	feet	(Y) / N	
Final H2O level	24.45	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 gal

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

Weather: 64° 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:
Use 5 gal Bucket

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

Location: RB-09/09 **Date:** 9/9/24

Technician: T. Reed **Quarter:** 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	Chlorine
1:40	7.17	13.10	26.6	103	—

Sample Method: Grab

Oil/Gas visible [Y / (N)]

Turbid [Y / (N)]

Clear [(Y) / N]

Weather: 67° Sunny

Signature: T Reed

Comments / Notes:

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

Location: RB-0912 **Date:** 9/12/24

Technician: T. Reed **Quarter:** 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	Chlorine
9:11	7.13	7.29	16.0	268	—

Sample Method: Grab.

Oil/Gas visible [Y / (N)]

Turbid [Y / (N)]

Clear [(Y) / N]

Weather: 54° Sunny

Signature:

Comments / Notes:

Rinse Blank

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

Location: RB-0916 **Date:** 9/16/24

Technician: TR **Quarter:** 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	Chlorine
10:46	6.73	68.89	20.0	149.0	

Sample Method:

Oil/Gas visible [Y (N)]

Turbid [Y (N)]

Clear [(Y) N]

Weather: 56°F Sunny

Signature:

Comments / Notes:

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

Location: RB-0917 **Date:** 9/17/24

Technician: T. Reed **Quarter:** 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	Chlorine
9:55	4.83	327.6	14.7	343.6	—

Sample Method: Grab

Oil/Gas visible [Y (N)]

Turbid [Y (N)]

Clear [(Y) / N]

Weather: 56° F, Sunny

Signature:

Comments / Notes:

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

Location: CCVB-0717 **Date:** 7/17/24

Technician: Trenten Reed **Quarter:** 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	Chlorine
11:33	7.03	289.3	25.9	195	N/A

Sample Method: Grab

Oil/Gas visible [Y / (N)]

Turbid [Y / (N)]

Clear [(Y) / N]

Weather: 69° Sunny

Signature:

Comments / Notes:

trip Blank

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

Location: AG-2.0

Date: 7/17/24

Technician: Trenton Reed

Quarter: 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	Chlorine
8:50	6.67	106.8	10.0	59.3	0.107

Sample Method: Grab

Oil/Gas visible [Y / (N)]

Turbid [Y / (N)]

Clear [(Y) / N]

Weather: Sunny 64°

Signature:

Comments / Notes:

6.2 x 100 = 620 gpm

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

Location: T-2 **Date:** 8/4/24

Technician: T. Reed **Quarter:** 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	Chlorine
2:11		DRY			

Sample Method: —

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

Turbid ~~[Y / N]~~

Clear ~~[Y / N]~~

Weather: 67° Overcast

Signature: [signature]

Comments / Notes:

T-2 was Dry

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

Location: WCSW-01 **Date:** 8/13/24

Technician: T. Reed **Quarter:** 3

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

Sample Method: _____

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

Turbid ~~[Y/N]~~

Clear ~~[Y/N]~~

Weather: 64° overcast

Signature: T Reed

Comments / Notes:

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Attachment 3

Surface Water Calculations

AG 2.0

Sample Date: 7/17/2024

Data for Calculations:		
pH	6.67	std units
Hardness	27.3	mg/L
Temperature	10	Celsius

Regulation 32 (5 CCR 1002-32) COARUA22A Standards			AG2.0 Results
Physical	**Acute**	**Chronic**	**Physical**
pH (std. units)	6.0 - 9.0	---	6.67
Temperature (^{o}C)	< 21.7	< 17	10
Inorganic	**Acute (mg/L)**	**Chronic (mg/L)**	**Inorganic**
Ammonia	30.238	6.482	0.149
Boron	---	0.750	<0.0400
Chloride	---	---	3.94
Chlorine	0.019	0.011	--
Cyanide (Free)	0.005	---	<0.0050
Nitrate	100.000	---	0.078
Nitrite	---	0.050	<0.050
Sulfide	---	0.002	<0.050
Sulfate	---	---	50.1
Phosporus	---	0.110	<0.050
Metals	**Acute (mg/L)**	**Chronic (mg/L)**	**Metals**
Aluminum	11.00000	11.00000	<0.080
Arsenic	0.34000	---	<0.00100
Arsenic (T)	---	0.10000	0.0011
Cadmium	0.00053	0.00027	<0.000100
Chromium (III)	0.19675	0.02559	<0.00600
Chromium (III) (T)	---	0.10000	<0.0110
Hexavalent Chromium	0.01600	0.01100	<0.0050
Copper	0.00395	0.00295	0.00141
Iron (T)	---	1.00000	**1.2**
Lead	0.01533	0.00060	<0.00020
Manganese	5.90300	3.67400	0.0082
Mercury (T)	---	0.00001	<0.000093
Molybdenum (T)	---	0.15000	<0.0080
Nickel	0.15612	0.01734	<0.0100
Selenium	0.01840	0.00460	<0.00100
Silver	0.00022	0.00003	<0.00008
Uranium	0.01680	0.01680	0.000127
Zinc	3.50000	0.60000	<0.0100

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

- Invalid results, past regulatory hold time

GV-06

Sample Date: 7/16/2024

Data for Calculations:		
pH	6.73	std units
Hardness	171	mg/L
Temperature	14.3	Celsius

Regulation 32 (5 CCR 1002-32) COARUA24 Standards			GV-06 Results
Physical	**Acute**	**Chronic**	**Physical**
pH (std. units)	6.5 - 9.0	---	6.73
Temperature (^{o}C)	< 21.7	< 17	14.3
Inorganic	**Acute (mg/L)**	**Chronic (mg/L)**	**Inorganic**
Ammonia	6.401	29.266	<0.030
Boron	0.750	---	<0.0400
Chloride	250.000	---	7.75
Chlorine	0.011	0.019	0.936
Cyanide (Free)	---	0.005	<0.0050
Nitrate	---	10.000	0.134
Nitrite	0.050	---	<0.050
Sulfide	0.002	---	<0.050
Sulfate	250.000	---	64.7
Phosporus	0.110	---	**0.166**
Metals	**Acute (mg/L)**	**Chronic (mg/L)**	**Metals**
Arsenic	0.34000	---	<0.00100
Arsenic (T)	---	0.00300	0.00123
Cadmium	0.00296	0.00107	<0.000100
Cadmium (T)	0.00500	---	<0.000100
Chromium (III)	---	0.11501	<0.00600
Chromium (III) (T)	0.05000	---	<0.0110
Hexavalent Chromium	0.01600	0.01100	<0.0050
Copper	0.02228	0.01416	<0.00040
Iron	---	0.30000	<0.100
Iron (T)	---	1.00000	**5.82**
Lead	0.11522	0.00449	<0.00020
Lead (T)	0.05000	---	0.00176
Manganese	3.56988	1.97236	0.381
Mercury (T)	---	0.00001	<0.000093
Molybdenum (T)	---	0.15000	<0.0080
Nickel	0.73719	0.08188	<0.0100
Nickel (T)	---	0.10000	<0.0100
Selenium	0.01840	0.00460	<0.0010
Silver	0.00511	0.00019	<0.00008
Uranium	0.01680	0.01680	0.00214
Zinc	0.26063	0.19740	0.0108

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

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GV-06

Sample Date: **8/13/2024**

Data for Calculations:		
pH	7.93	std units
Hardness	173	mg/L
Temperature	17	Celsius

Regulation 32 (5 CCR 1002-32) COARUA24 Standards			GV-06 Results
Physical	**Acute**	**Chronic**	**Physical**
pH (std. units)	6.5 - 9.0	---	7.93
Temperature (^{o}C)	< 21.7	< 17	17
Inorganic	**Acute (mg/L)**	**Chronic (mg/L)**	**Inorganic**
Ammonia	2.288838865	6.401324001	0.04
Boron	0.750	---	<0.0400
Chloride	250.000	---	8
Chlorine	0.011	0.019	--
Cyanide (Free)	---	0.005	<0.0050
Nitrate	---	10.000	0.153
Nitrite	0.050	---	<0.050
Sulfide	0.002	---	<0.050
Sulfate	250.000	---	55.7
Phosporus	0.110	---	0.094
Metals	**Acute (mg/L)**	**Chronic (mg/L)**	**Metals**
Arsenic	0.34000	---	<0.00100
Arsenic (T)	---	0.00300	<0.00100
Cadmium	0.00299	0.00108	<0.000100
Cadmium (T)	0.00500	---	<0.000100
Chromium (III)	---	0.11611	<0.0510
Chromium (III) (T)	0.05000	---	<0.0560
Hexavalent Chromium	0.01600	0.01100	<0.0500
Copper	0.02253	0.01431	<0.00040
Iron	---	0.30000	**0.369**
Iron (T)	---	1.00000	**2.34**
Lead	0.11666	0.00455	<0.00020
Lead (T)	0.05000	---	0.0009
Manganese	3.58374	1.98002	0.366
Mercury (T)	---	0.00001	<0.000093
Molybdenum (T)	---	0.15000	<0.0080
Nickel	0.74448	0.08269	<0.0100
Nickel (T)	---	0.10000	<0.0100
Selenium	0.01840	0.00460	<0.00100
Silver	0.00521	0.00019	<0.00008
Uranium	0.01680	0.01680	0.00182
Zinc	0.26340	0.19950	<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.

GV-06

Sample Date: 9/18/2024

Data for Calculations:		
pH	7.93	std units
Hardness	157	mg/L
Temperature	17	Celsius

Regulation 32 (5 CCR 1002-32) COARUA24 Standards			GV-06 Results
Physical	**Acute**	**Chronic**	**Physical**
pH (std. units)	6.5 - 9.0	---	**7.93**
Temperature (^{o}C)	< 21.7	< 17	17
Inorganic	**Acute (mg/L)**	**Chronic (mg/L)**	**Inorganic**
Ammonia	2.289	6.401	<0.030
Boron	0.750	---	<0.0400
Chloride	250.000	---	8.37
Chlorine	0.011	0.019	**--**
Cyanide (Free)	---	0.005	<0.0050
Nitrate	---	10.000	0.212
Nitrite	0.050	---	<0.050
Sulfide	0.002	---	<0.050
Sulfate	250.000	---	78
Phosporus	0.110	---	0.054
Metals	**Acute (mg/L)**	**Chronic (mg/L)**	**Metals**
Arsenic	0.34000	---	<0.00100
Arsenic (T)	---	0.00300	<0.00100
Cadmium	0.00273	0.00101	0.000105
Cadmium (T)	0.00500	---	<0.000100
Chromium (III)	---	0.10724	<0.00600
Chromium (III) (T)	0.05000	---	<0.0110
Hexavalent Chromium	0.01600	0.01100	<0.0050
Copper	0.02056	0.01317	0.00045
Iron	---	0.30000	0.257
Iron (T)	---	1.00000	**1.43**
Lead	0.10515	0.00410	<0.00020
Lead (T)	0.05000	---	0.00046
Manganese	3.46974	1.91704	0.657
Mercury (T)	---	0.00001	0.00000137
Molybdenum (T)	---	0.15000	<0.0080
Nickel	0.68580	0.07617	<0.0100
Nickel (T)	---	0.10000	<0.0100
Selenium	0.01840	0.00460	<0.00100
Silver	0.00441	0.00016	<0.00008
Uranium	0.01680	0.01680	0.00188
Zinc	0.24115	0.18265	<0.0100

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

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Attachment 4

RPD Calculations

Relative Percent Difference Calculations:

The Division has requested that relative percent difference calculations be completed for duplicate samples collected within the same quarter. In the third quarter, 2024 CC&V submitted duplicate samples for monitoring well GVMW-26B, collected on 9/9/2024, monitoring well GVMW-8A on 8/20/2024, monitoring well CRMW-5C collected on 7/17/2024, monitoring well CRMW-3D on 8/21/2024, and monitoring well GVMW25 on 9/16/2024. For all data where a calculation is applicable, the RPD is presented below. When laboratory analysis for both samples was below reporting limit, a RPD was not calculated. When one sample result was above the reporting limit, and one sample was below the reporting limit a RPD was not calculated. CC&V used the following formula to determine Relative Percent Difference (RPD):

$$RPD = \frac{|X_1 - X_2|}{(X_1 + X_2)/2} \times 100$$

where,

RPD = Relative Percent Difference (as %)

$|X_1 - X_2|$ = Absolute value (always positive) of $X_1 - X_2$

X_1 = Original sample concentration

X_2 = Duplicate sample concentration

Analyte	GVMW-26B	GVMW-26B Duplicate	Relative Percent Difference (RPD, %)
Barium - Dissolved (mg/L)	0.101	0.0986	2.40
Chloride - Total (mg/L)	1.89	1.94	2.61
Fluoride - Total F (mg/L)	0.208	0.222	6.51
Nitrate as Nitrogen (mg/L)	0.737	0.737	0.00
Nitrite + Nitrate as Nitrogen (mg/L)	0.737	0.737	0.00
Sodium - Dissolved (mg/L)	10.1	10	1.00
Sulfate - Total (mg/L)	21.5	21.6	0.46
Total Dissolved Solids (mg/L)	87	90	3.39

Analyte	GVMW-8A	GVMW-8A Duplicate	Relative Percent Difference (RPD, %)
Chloride - Total (mg/L)	64	63	1.57
Fluoride - Total F (mg/L)	1.91	1.87	2.12
Nitrate as Nitrogen (mg/L)	1.28	1.3	1.55
Sodium - Dissolved (mg/L)	24.1	24.3	0.83
Sulfate - Total (mg/L)	64.6	63.5	1.72
Total Dissolved Solids (mg/L)	277	298	7.30
Uranium - Dissolved (mg/L)	0.00483	0.00511	5.63

Analyte	CRMW-5C	CRMW-5C Duplicate	Relative Percent Difference (RPD, %)
Aluminium - Dissolved (mg/L)	0.145	0.083	54.39
Barium - Dissolved (mg/L)	0.0069	0.0065	5.97
Chloride - Total (mg/L)	5.77	5.77	0.00
Fluoride - Total F (mg/L)	3.4	3.52	3.47
Nitrate as Nitrogen (mg/L)	0.101	0.102	0.99
Sodium - Dissolved (mg/L)	7.2	7.15	0.70
Sulfate - Total (mg/L)	32.5	33	1.53
Total Dissolved Solids (mg/L)	131	111	16.53
Uranium - Dissolved (mg/L)	0.000391	0.000393	0.51

Analyte	CRMW-3D	CRMW-3D Duplicate	Relative Percent Difference (RPD, %)
Barium - Dissolved (mg/L)	0.0117	0.0118	0.85
Chloride - Total (mg/L)	181	178	1.67
Cobalt - Dissolved (mg/L)	0.0205	0.02	2.47
Fluoride - Total F (mg/L)	3.26	2.66	20.27
Iron - Dissolved (mg/L)	0.108	0.112	3.64
Lithium - Dissolved (mg/L)	0.08	0.08	0.00
Manganese - Dissolved (mg/L)	2.47	2.43	1.63
Nitrate as Nitrogen (mg/L)	0.349	0.356	1.99
Nitrite + Nitrate as Nitrogen (mg/L)	0.349	0.356	1.99
Sodium - Dissolved (mg/L)	70.8	71.4	0.84
Sulfate - Total (mg/L)	696	683	1.89
Total Dissolved Solids (mg/L)	1480	1380	6.99
Uranium - Dissolved (mg/L)	0.0236	0.0242	2.51
Zinc - Dissolved (mg/L)	0.032	0.0325	1.55

Analyte	GVMW-25	GVMW-25 Duplicate	Relative Percent Difference (RPD, %)
Aluminium - Dissolved (mg/L)	980	1010	3.02
Barium - Dissolved (mg/L)	0.015	0.0146	2.70
Beryllium - Dissolved (mg/L)	0.661	0.653	1.22
Cadmium - Dissolved (mg/L)	1.82	1.8	1.10
Chloride - Total (mg/L)	24.3	24.4	0.41
Chromium - Dissolved (mg/L)	0.12	0.121	0.83
Cobalt - Dissolved (mg/L)	2.13	2.12	0.47
Copper - Dissolved (mg/L)	4.12	4.14	0.48
Fluoride - Total F (mg/L)	91.2	89.1	2.33
Iron - Dissolved (mg/L)	6.3	6.27	0.48
Lithium - Dissolved (mg/L)	0.196	0.196	0.00
Manganese - Dissolved (mg/L)	249	259	3.94
Nickel - Dissolved (mg/L)	2.79	2.76	1.08
Nitrate as Nitrogen (mg/L)	3.62	3.63	0.28
Nitrite + Nitrate as Nitrogen (mg/L)	3.62	3.63	0.28
Sodium - Dissolved (mg/L)	40.9	40.6	0.74
Sulfate - Total (mg/L)	9740	9750	0.10
Total Dissolved Solids (mg/L)	13900	13000	6.69
Uranium - Dissolved (mg/L)	3.65	3.64	0.27
Zinc - Dissolved (mg/L)	68.7	70.8	3.01

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Attachment 5

Graphs